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Complete Docokame@VSS User Manual

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CHAPTER 1. INTRODUCTION

1.1. Introducing Docokame@VSS

Docokame@VSS is Russia's #1 bestseller in video surveillance software, according to allsoft.ru, one of the biggest software online stores.

It is a complete video surveillance solution with unlimited flexibility owing to its innovative construction-set principle. Easy for non-tech savvies, powerful for professionals, it allows to build both small and enterprise-level systems with truly unlimited number of cameras (up to **several thousand cameras on single computer**). The program works on **Windows, Linux, Mac OS and Android** devices (full-featured version) with full remote access and view from any mobile devices and computers.

Docokame@VSS offers auto-detection of and **support for almost any cameras - IP, ONVIF, USB webcams, H.264, H.265, MJPEG, MPEG4, PTZ, WiFi** (up to **99.9% of cameras on the market** supported). With its help, in just a few seconds a computer and a camera will turn into a ready to work out-of-the-box surveillance system.

Intellectual motion detector with advanced false alarm avoiding logic, motion-triggered or scheduled notifications (SMS, email, sound alarm, etc.) and screen captures, work with sound are perfect for staff monitoring and parental control.

Shared access rights, encryption, password protection, network clustering, also on operating systems without graphical shell, make monitoring efficient and stable even for professional-scale surveillance systems. No installation and no admin privileges required. Professionals will certainly appreciate automatic backup to FTP server, powerful web server and remote view of all cameras with sound (flash video streaming), cyclic archive with export feature.

Economy at its best: Try the **demo edition** of Docokame@VSS with unlimited functionality! Use it as long as you want. Once you feel like extending your system, you can purchase a license at most economical price! Save at expense of security staff or costly surveillance solutions, replacing and maintaining out-of-date surveillance equipment.

Docokame@VSS doesn't contain any spy, virus or malware. It is

completely safe. [Download](#) [Buy](#) [Videos](#) [Contact](#)

[US](#)

1.2. Docokame@VSS key features

Camera/sources processing:

- Compatible with [any webcams](#), analog cams, including WiFi wireless cctv cameras
- Supports IP-cameras (including H.264, H.265, JPEG/MJPEG, MPEG-4, Fisheye, PTZ and [ONVIF](#), wireless cams, i.e. perfect both for wired and wireless cctv)
- Any resolution (Mpix)
- Screen captures from all monitors simultaneously
- Adjustable sound quality and sound volume
- Up to 2 000 cameras can be connected on 1 computer!

Professional surveillance made easy:

- Quick setup: group settings of modules
- Quick navigation and control of cameras with [Device list](#)
- [Docokame@VSS Cloud Service](#)
- [Docokame@VSS Pro](#) - professional extension to regular Docokame@VSS
- Setup of cameras, modules, and schemes in a configuration file in Docokame@VSS
- Pro Creating a surveillance network of Docokame@VSS cctv software servers by using [web server](#) Multi-Server and Multi-Client connection architecture for video surveillance of any size Flexible setup of access rights (user permissions)
- Password protection of settings
- Fullscreen view
- Work with multiple monitors
- Support for PTZ control
- 360° camera image rotation
- Sound detector
- Instant screenshots of camera image

Intellectual modules and features:

- Fisheye cameras image dewarping
- eMap - map of your video surveillance site with interactive cameras on it
- Face detector
- Object detector to follow objects even if they're not moving
- Synchronization with camera's SD card
- Synchronization with cashier registers
- LDAP active directory synchronization
- Easy home automation system integration thanks to HTTP request sender and HTTP switcher modules
- Possibility to create your own cloud video surveillance service with Docokame@VSS Pro
- Privacy masking to blur areas you're not supposed to record, or faces
- Automatic object tracking with zoom (PTZ tracking) and visualization of moving objects
- Sabotage detector to notify you when problems are detected
- PTZ control also in browsers
- Quick turning on/off of chains remotely (HTTP Switcher) and locally (Button Switcher)
- Search in archive for motion events by time or in selected areas
- RTSP and HTTP broadcasting: emulation of IP cameras streaming in MJPEG, JPEG, H264, etc.

Remote access:

- Remote view via mobile devices (Android, iPhone, iPad supported)
- Online view of all cameras with sound
- [Full remote access](#) to settings, archive and cameras

- Internet broadcasting
- Possibility to embed camera image to your site
- Remote access even with dynamic IP address
- View of archives in web browsers

Motion detector:

- Setting up of zone(s) of any size and shape to monitor for motion
- Visual motion detection, with time of the last detected movement shown on preview
- Setting up maximum object size to be ignored, and sensitivity level of sensor
- Pre-record option to store several seconds preceding motion detection
- Post-record to continue recording after the event has finished
- Record delay
- Enhanced algorithm to avoid false alarms caused by pets or weather changes

Archive:

- Loop recording
- Adjustable maximum size of archive and compression rate of images stored to archive
- Possibility to store archive onto different HDDs, RAIDs
- Support for network attached storage (NAS), Google Cloud disc, etc.
- User-friendly built-in media player with search for motion event or specific time
- Export of a selected extract right from the viewer
- Deletion of unneeded extracts from the viewer
- Search for motion events by time and in selected areas
- Simultaneous synchronized view of several archives

Notifications and reactions:

- Text message (SMS) sending
- E-mail notifications (with attached JPEG images and MJPEG videos)
- Event-triggered pop-up window
- Sound alarm
- Running a specified external program
- FTP server upload of images and videos with sound
- Saving files to the specified path with cyclic recording

All high-demand features:

- Hidden mode of work
- WEBM (VP8 and VP9), MPEG-4, MP4 and MJPEG video formats
- Marking (embedded time and date, custom text, GPS coordinates, or image stamp over camera's stream)
- Scheduler, setting up when system's components are to start/end work
- Adjustable volume of sound in preview mode
- Quick setup: duplicating of chains
- Adjustable preview mode (camera layouts, window transparency, font)
- Automatic slide show of real-time images
- 1-click-easy updates
- New versions notifications

Docokame@VSS advantages:

- Full-featured work on Windows, Mac OS X, Linux and Android
- Free download
- Full featured trial (demo) edition can be used multiple times
- Free edition with no time-of-use limits
- Ready to work right after downloading with default settings
- No installation needed
- No admin rights required
- Simple additional settings
- Flexible control like in a children's construction set
- Innovative intuitive graphical interface
- Dynamic development and addition of cutting-edge features
- Available in Main languages:
English, Spanish, Italian, Brazilian Portuguese, Chinese, French, German, Japanese, Hungarian, Polish and Russian.

Additional languages:

Dutch, Danish, Romanian, Turkish, Croatian, Finnish, Greek, Czech, Bulgarian, Ukrainian and Belorussian.

languages

Typical applications:

- Object monitoring in non-working hours (office, store, warehouse)
- Security surveillance (perimeter security monitoring, car, etc.)
- Smart home systems integration
- Staff monitoring (industry workers, office employees, caregivers and home staff)

- Monitoring of activity of children and office workers on computer, control over visited sites
- Pet surveillance
- Watching machinery in industries

1.3. Minimum system requirements:

Windows - Windows XP (minimum SP2 X64 or SP3 X32/64), Windows Vista, Windows 7, Windows 8, Windows 10, both 64-bit and 32-bit versions, Windows Server 2000/2003/2008.

Linux - both 32-bit and 64-bit versions with XWindows or console/server. Supported Linux distros:

Ubuntu latest versions (10, 11, 12, 13, 14),
Debian 6 Server, Debian 7,
openSUSE 12.1,
Mint 12,
CentOS version 6 or higher,
Red Hat Enterprise Linux version 6 or higher.

Note: Linux console sound support requires: libasound2. To install or run Docokame@VSS on Linux please make sure you are uncompressing Docokame@VSS_linux.tgz archive on Linux machine. Otherwise, it is required to execute: `chmod a+x Docokame@VSS.app` and then you can run Docokame@VSS as usual: `./Docokame@VSS.app`

If you are installing 32 bit version on your 64 bit Linux distro (although it's better to download the 64 bit version in this case), you might need to install ia32-libs.

Mac OS X version 10.7 or higher.

Android - Android OS 2.3.3 (API LEVEL 10) or higher (recommended - 4.2 or higher), 20 Mb of free operating memory, screen resolution - 450x450 or higher.

iPhone/iPad - iOS version 5 or higher.

For more detailed information please visit our minimum system requirements calculator page at <http://felenasoft.com/Docokame@VSS/en/help/calculator/>.

Available languages:

Main languages:

English, Spanish, Italian, Brazilian Portuguese, Chinese, French, German, Japanese, Hungarian, Polish and Russian.

Additional languages:

Dutch, Danish, Romanian, Turkish, Croatian, Finnish, Greek, Czech, Bulgarian, Ukrainian and Belorussian.

See [Docokame@VSS information in your language](#)

1.4. Docokame@VSS's modes of functioning

Docokame@VSS can be used in either of its 4 modes (editions):

The **free edition** lets you use up to eight video sources (cameras) and up to three modules in each scheme. Connection to remote server can be done with any version of Docokame@VSS. But please pay attention: remote connection TO the machine with Docokame@VSS in the free mode cannot be done. See [video about Free edition](#)

Lite version lets you use up to four video sources and up to six modules in each scheme. This version should be activated with the special license. Docokame@VSS Lite doesn't support updates of the program, and renewals are not applicable. You can use the version that you activated Docokame@VSS Lite on for unlimited time. See also [video about Lite edition](#)

Trial version has no limitations in functionality, number of video sources or modules but all settings will be reset in 4 hours and will not be saved at program restart. Please note, due to trial version limitations you can store your Archive for only 1 hour, then it will be rewritten. Remote server can be connected to with any version of Docokame@VSS. [video about Trial edition](#)

The **Standard edition** has no limitation in remote connections and video sources number. Total number of video sources/cameras in use depends on your [license](#). [video about Standard edition](#)

You can switch between modes via Main Menu -> Information or Main Menu -> Information -> About.

Comparison table for Docokame@VSS video surveillance software editions:

	Trial	Free	<u>Lite</u>	Standard	<u>Pro</u>
Maximum number of available sources	Unlimited	8	4	Unlimited (depend on license type)	Unlimited (depend on license type)
Maximum number of modules in chain	Unlimited	3	6	Unlimited (depend on license type)	Unlimited (depend on license type)
Archive retention period before overwriting	1 hour	5 days	Unlimited	Unlimited	Unlimited
Remote access	Yes	No	Yes	Yes	Yes

Multiple user profiles available	Yes	Yes	No	Yes	Yes
Possibility to use Repeater*	Yes	No	Yes	Yes	Yes
Time of work	4 hours after last change of settings	Unlimited	Unlimited	Unlimited	Unlimited
Watermark Free	Yes	-	Yes	Yes	Yes
Updates to new versions of Docokame@VSS	Yes	Yes	No	Yes (1 year since purchase date) <u>extend the free updates period with up to 80% discount</u>	Yes (1 year since purchase date) <u>extend the free updates period with up to 80% discount</u>
Customization	Yes	No	Yes	Yes	Yes
Other key features	free of charge settings are restored to defaults every 4 hours/at program exit all features available for test	free of charge user profiles available for access on the same computer unlimited time of work with free updates of the program	paid mode (requires a license) <u>limited number of available modules</u>	paid mode (requires a license) licenses cumulate all regular modules available	paid mode (requires a license) licenses cumulate regular + <u>special PRO modules</u> available
PTZ control	Yes	Yes	Yes	Yes	Yes
PTZ control through web browser	Yes	-	-	-	Yes
Digital zoom	Yes	-	-	Yes	Yes
PTZ Tracking	Yes	-	-	Yes	Yes
Fisheye Dewarping	Yes	-	-	Yes	Yes
Search in the archive viewer by date/date	Yes	Yes	Yes	Yes	Yes
Search in the archive viewer in certain area	Yes	-	-	Yes	Yes
Synchronized playback of several archives	Yes	-	-	-	Yes
Quick turning off/on of the cameras	Yes	Yes	Yes	Yes	Yes
Button Switcher	Yes	-	-	-	Yes
HTTP Switcher	Yes	-	-	Yes	Yes
Device List	Yes	Yes	-	Yes	Yes
Interactive maps eMap	Yes	-	-	-	Yes
Visitors Counter	Yes	-	-	Yes	Yes
Face Detector	Yes	-	-	-	Yes
Privacy Masking	Yes	-	-	-	Yes
Sound Detector	Yes	-	-	Yes	Yes
Problems Detector	Yes	-	-	Yes	Yes

Object Detector	Yes	-	-	Yes	Yes
SMS Sending	Yes	-	-	Yes	Yes
Visualization of movement - preview	Yes	Yes	Yes	Yes	Yes
Visualization of movement - archive	Yes	-	-	-	Yes
RTSP Broadcasting	Yes	-	-	-	Yes
FTP Upload	Yes	-	-	Yes	Yes
Saving still image (preview, archive)	Yes	-	-	Yes	Yes
Various layouts	Yes	-	-	Yes	Yes
Fullscreen mode	Yes	-	Yes	Yes	Yes
Client parts update automatically	Yes	-	-	-	Yes
LDAP synchronization	Yes	-	-	-	Yes
Possibility to delete pieces of archive	Yes	Yes	Yes	Yes	Yes
Possibility to make intervals of archive undeletable	Yes	-	-	-	Yes
Sound alarm - client	Yes	-	-	-	Yes
Sound alarm - server	Yes	Yes	Yes	Yes	Yes
HTTP Marking	Yes	-	-	Yes	Yes
Application Runner	Yes	-	-	Yes	Yes
Relay Switch	Yes	-	-	Yes	Yes
HTTP Receiver	Yes	-	-	Yes	Yes
HTTP Upload to other Docokame@VSS	Yes	-	-	Yes	Yes
HTTP Request Sender	Yes	-	-	Yes	Yes

*Repeater is an optional service, bought separately for additional price.

CHAPTER 2. GETTING STARTED

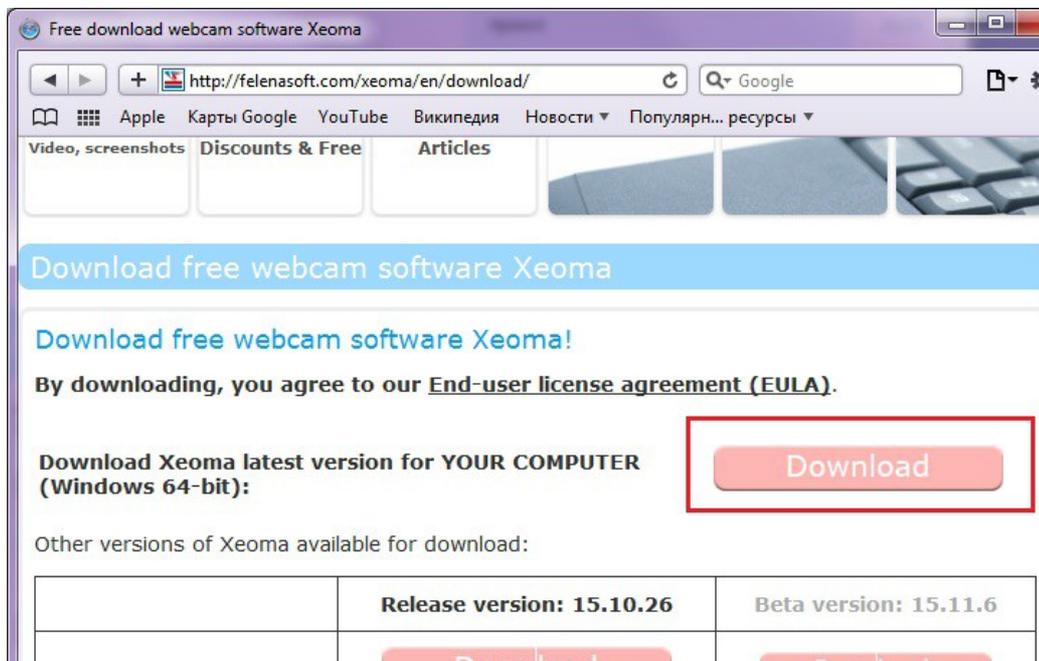
2.1. Let's get it started, or how to use Docokame@VSS

You can also view [Docokame@VSS Video Tutorial](#)

Suppose you have a goal of conducting video surveillance. You have a computer or a tablet, a camera or several cameras to start with, and an area to monitor. Docokame@VSS will be a perfect solution, for it works with cameras of all types (hundreds of models are supported), and can work on various operating systems. These are the simple steps to make it work.

1. **Download Docokame@VSS** for your operating system from our site. You can choose between official release or beta version (usually more recent, also stable but undergone only alpha-testing). Suggested version of Docokame@VSS for the device you're accessing our site from is to be found above the download options table. If you don't know what to use, try this one on this device. Docokame@VSS consists of 2 parts - server and client - the downloadable executable file contains both (except for iOS, Linux/ARM). You can separate the two parts when you run Docokame@VSS or install it.

For OS with graphical shell:



For console (don't forget to unpack the archive after it's downloaded):

```
felenasoft@ubuntu: ~
felenasoft@ubuntu:~$ wget http://felenasoft.com/xeoma/downloads/xeoma_linux64.tgz
```

2. **Run Docokame@VSS** as usual applications on the computer that will become the core of your video surveillances system. This will be your server. It will process cameras and other sources, save recordings, etc. If Docokame@VSS is not activated yet, including when you run it for the first time, it will be launched in the trial edition. Switch between free, trial and commercial editions in Main menu. Troubleshooting of launch and installation

For graphical shell OS: simpleclick or double click on Docokame@VSS executable file (makesure to unpack the archive if it was archived) For console:

```
felenasoft@ubuntu: ~
felenasoft@ubuntu:~$ '/home/felenasoft/Desktop/xеoma.app'
```

3. When you first launch Docokame@VSS, it scans the network in search for cameras. All cameras that Docokame@VSS finds will be added to the Main Window. Cameras that require authorization and therefore cannot be added yet will be listed in '+' menu in the panel below. If the scanning takes too much time, or if all your cameras are already added, you can stop the search by clicking on scanning progress bar in the right bottom corner. More about automatic search.

4. By default, all found cameras are added with a default scheme of Universal camera - Scheduler - Motion detector - Preview and archive - Problems detector - Email sending modules with default settings (exception is the Lite and Free edition where default chains are Universal Camera - Motion Detector - Preview and Archive, due to limitation of maximum count of modules in chains). You can **add, delete or re-configure** modules the way you need.

- **Camera:** select image resolution and refresh interval (for USB cameras), or a stream with pre-configured parameters (for network cameras). Analog cameras will be detected either as USB or IP cameras, depending on the method they are connected through. More about configuring a camera
- **Motion detector:** select a zone or several zones to monitor for motion, set pre- or post-record, sensitivity of the sensor.
- **Scheduler:** set time and dates the following modules are to work. By default, set to work 24/7.
- **Preview and Archive** (also known as the Archive module): you can re-configure where to save files to, how long to keep files before they are overwritten, maximum size the archive is allowed to take. By default, time of storage is 1 hour in the trial mode. When in the commercial or free mode, you can set archives to be kept for a longer period of time.

5. Docokame@VSS executable file is portable. That means you can choose to install Docokame@VSS or just launch it when you need it. **Install** Docokame@VSS to make it start with your operating system. Hidden mode of work can also be set in the Installation menu. Learn why you need installation

6. To view recordings, press the small 'Play' button in the top right corner of camera image in Main window or a bigger 'Play' button in the panel below. You will get to the built-in archive player where recordings can be viewed and exported.

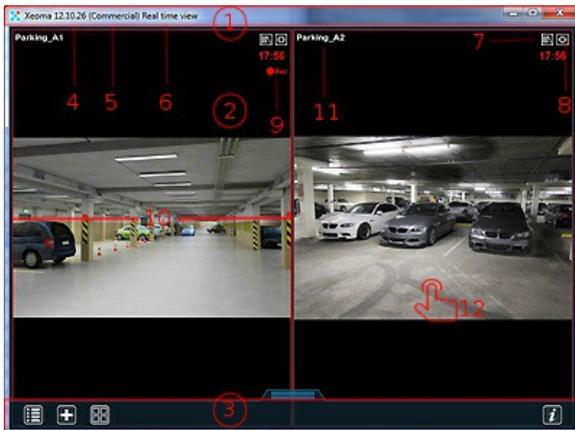
Remote access and view of cameras live and recorded feeds is also required? Docokame@VSS is perfect for meeting this goal as well. Use the data from Connection dialog to connect remotely, from any other place.

No remote access required? Then Docokame@VSS can work without Internet connection. [Instruction on Offline activation](#)

You can also [create user profiles](#) for those who are authorized to watch and control the cameras, and assign them specific rights and permissions, and many other useful features.

Tip: For work on operating systems with no graphical shell, please check our [console guide](#).

2.2. Interface in Docokame@VSS



Main program window includes operating system's window title/titlebar (1) and program interface - preview boxes (2) (live images from cameras and other sources of signal) and a bar below the previews (3). Window title usually contains version of Docokame@VSS used (4), mode of functioning (5) and name of the screen you're currently in (6). When connected to a remote server, you can also see IP address of the server in the window title and if version of the client doesn't match the server's, the client version as well.

In the titlebar there are usual control buttons: 'Minimize', 'Maximize', 'Close'. Window position can be moved on the screen by dragging with mouse of its titlebar. Window can be resized by any edge and border.

Each preview box has small archive (7) and settings (8) icons in the top right corner used to access archive viewer and detailed configuration of the camera (source) by clicking on corresponding icons. If the camera supports PTZ controlling, a small PTZ icon will be shown along with the other two.

Below the archive and detailed settings icons, you will see the **time of last detected motion** (9) (if there is a motion detector module in the chain working). Clicking on the time of last detected motion will open archive on the place when this motion began. Moreover, if there was motion detected, the preview box frame will become colored in color that will gradually (in 3 minutes) come back to the original white circuit (blue when cursor is hovering over it). If a motion event is currently in progress, you will see red '•Rec' instead of time indication below the small archive and settings icons.

In the left top corner of the preview box there is the preview's name (11) that can be set up in Preview or Archive and Preview module. Click on the name here to open the settings right here.

Quick overview of settings for each preview box can be accessed by clicking on the preview box image (anywhere within the preview box) (12).

The popup bar below has buttons as follows: '**List**', '**Plus**', '**Nut**', '**Play**', '**Window**', '**I nfo**'. The bar can be hidden by dragging it down and showed by dragging it up, or simply by clicking on it.

- '**List**' is a Main Menu symbol. It has somewhat different option depending on what Screen you're at at the moment. In Real Time View Screen it opens a dialog that allows to
 - configure remote access options (including Repeater and user profiles setup),
 - turn all sources off and back on,
 - enable/disable Device List,
 - install or uninstall the program to autostart (including Hidden mode), open Docokame@VSS Video Tutorial and switch between trial, free and commercial versions of the program,
 - buy a license and activate the commercial version in Registration menu,
 - find information about the program, your licenses, leave feedback or visit official developer's site,
 - switch languages.

- '**Plus**' button is used to add new cameras. If there were any cameras detected in the local network, they will be available for adding right in this menu. If not, there are choices of either add random world webcam, duplicate the last scheme, repeat scanning for cameras, or use advanced search for cameras, this time with use of login, password, subnetwork indication, or camera's port.

Also, here you can duplicate the camera you last viewed - this option comes in handy when you need to quickly clone complicated schemes because their settings are almost identical.

- '**Nut**' is the same as settings symbol in top right corner of a preview box - here it is used to access Detailed Settings of the camera you last viewed and configure all features in the visual way.
- '**Play**' in the lower panel is similar to the archive symbol in top right corner of a preview box - here it opens a dialog to select archive recordings of which cameras you'd like to view. After selection archive viewer will be opened where all recordings made with the "Preview and Archive" module can be viewed and extracts in chosen format can be exported.
- '**Window**' is a menu about how Docokame@VSS looks. Here you can

- choose a layout that only shows part of the cameras (shown only if connected are more than 1 camera). Divide cameras into groups with grids like 1x1, 2x2 or custom quantity of cameras per page. If a layout is chosen that shows only a part of the cameras at a time, two-lines-arrow button «Previous» and «Next» (used for switching between pages with multiple sources) will appear to the right or/and to the left of the screen. If selected, another option will appear - "Show/hide pages panel" that adds/removes a pages tabs panel that you can name and use for quick switching between tabs (pages). To close a specific tab, go to *Layouts icon (rightmost)* -> *Manage Layouts* -> *Layout: custom* -> *Delete current tab*.
- choose a layout where 1 or several cameras will be in bigger slots than others.
- open Docokame@VSS in Fullscreen mode (Windows, Mac OS X only, for other OS please use system means).
- adjust transparency and frames-per-second rate of the the client part of Docokame@VSS (will not affect the server part in any way) and font size for camera's names on preview.
- show/hide cameras information like their current fps, resolution, stream format as well as average CPU load and so on, over all cameras' preview boxes.
- show red cross over preview boxes for cameras that stopped updating their picture.
- turn on/off the "Always on top" mode.
- turn on/off [movement visualization](#) and tracking.

- adjust sound volume
- control ANPR white list (only for PRO edition)
- open, upload and use eMap - interactive map of the surveillance location.

- **'Info'** will open a screen reminding of the buttons' definitions and offering Help, if confused or lost.

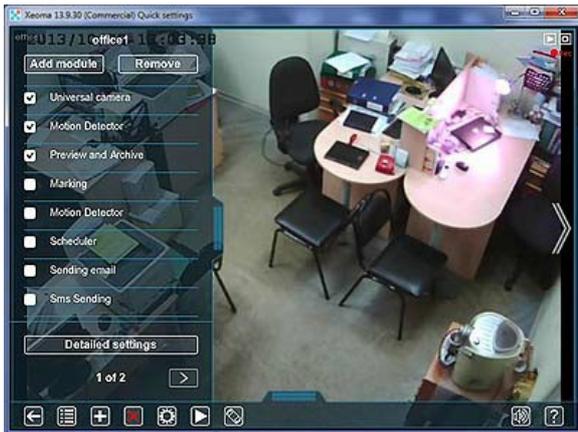
More about Layouts in the [Layouts video](#)

Tip: another good way to conveniently control and group cameras is [Device List](#).

2.3. Interface in Quick settings window

Quick settings interface has a side popup panel with list of features in use for this camera with check boxes to turn them on or off quickly. Click on a module's name to open its settings and set it up right in this window. Use arrows to navigate between chains (cameras).

The bottom bar in Quick settings acquires additional icons, as compared to the Main window interface: **'Arrow'**, **'Red Cross'**, **'Flip'** and **Volume** (optional: **Screenshot** icon - if you chose in the Main Menu to have it as a button).



'Arrow' is used to go back to the previous window, in this case - to the preview window (main window).

'Red Cross' will delete the current camera and all modules connected to it (the whole chain). Please pay attention - the action is irreversible.

Click **'Flip'** to activate intuitive PTZ (pan-tilt-zoom) control feature of your camera. Click **'Volume'** to activate volume control and adjust volume of sound. **Screenshot** does the same as Screenshot menu option: instant captures of this camera image and stores them to a default folder that you can change.



2.4. Interface in Detailed settings window

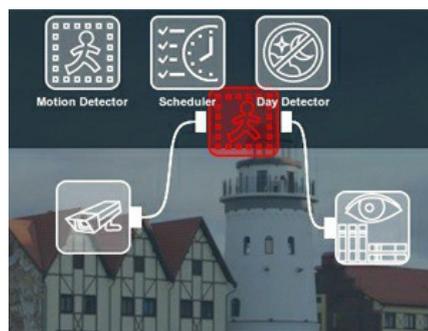


The bottom bar of Detailed settings window is nothing unusual compared to those of previous screens.

Modules represent features that can be used to achieve maximum efficiency of the video surveillance system Docokame@VSS. Thanks to the construction-set principle you can .

Top panel is the list of available modules and ready-to-use sample chains, under top panel there is the **scheme of work**. To the left there is an arrow symbolizing going back to the previous screen you were on before you went to the Detailed settings, and the Eye symbol that will take you to the Main Window.

- To add a module into a scheme drag it down to the scheme.
- To connect modules place one of them on another or drag a line (a wire, or connection) from one of them to another.
- To delete connection between modules click on it.
- To change the order of modules simply drag a module on another connection.



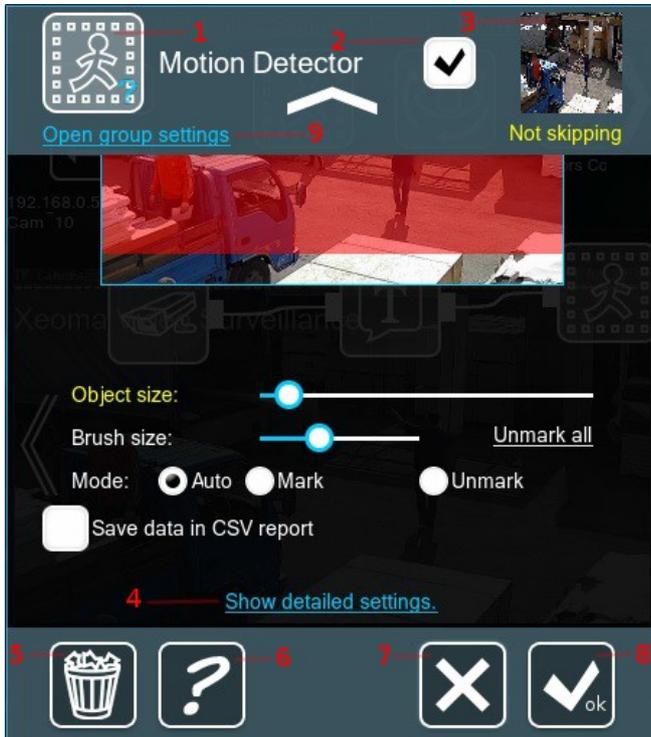
To set a module up click on it, when it's in the scheme of work area.

Note: a scheme will only work when all modules you chose are wired (connected with white lines). If modules are connected with grey lines, it means one of the modules is switched off and all of the following ones are not getting image from it.

Generally, there are 2 modules necessary for every scheme to work: 1 source module and 1 destination module of any kind.

For example, the default scheme is Universal camera -> Scheduler -> Motion detector -> Preview and Archive. You can build a scheme much more complicated than that though, depending on your goals.

2.5. Interface in Module settings window



To open a module's settings, you can either click on the module name in the left panel of the Quick Settings Screen, or click on the module icon in the field of work of the Detailed Settings Screen. Naturally, various modules will have various settings. But some elements are the same.

- (1) - Icon of the module you're in the settings for. Click it to get more information about what this module does.
- (2) - Module state: Enabled, Disabled (or Skipping - only for filter modules). Enabled - module is working and passing signal on to other modules it's connected to via whitewires. Disabled - module is disabled, signal does not get through on to following modules. Skipping - module is ignored, signal gets through as if there was no such module in the scheme.
- (3) - Camera image with the Skipping or Not skipping text.
- (4) - Some modules have some of their settings hidden under 'Advanced settings' link. Usually it's more complicated settings that not everyone needs. Click on it to expand the advanced setting of a module.
- (5) - Recycle bin. Click it to delete the module.
- (6) - Information icon. Click it to get more information about what this module does.
- (7) - The big X button is the cancel button. Click it to discard the changes you applied during the current visit to the settings window.
- (8) - The big tick button is the OK button. Click it for Docokame@VSS to accept and remember the changes you applied during the current visit to the settings window.
- (9) - **Group settings** (where applicable) this option at the top of the module's settings window will help you apply changes to all or some modules of this type. It's convenient when you need to

quickly set up many modules of the same type.

2.6. Changing cameras order

You can change the order the cameras are laid out on your main screen simply by dragging the preview box of the camera to the right place (i.e. exchanging its position with another preview box).

[Photo instruction on changing cameras order](#)

2.7. Device List (devices by groups)

When working with large numbers of cameras, the quick access and grouping of Device List might come in especially handy. Here is the [instruction](#).

2.8. PTZ control and zoom

In Docokame@VSS, you can have control over camera's PTZ (pan tilt zoom) functions or, if a camera doesn't support it, use digital zoom.

1. **PTZ.** If your camera was connected to Docokame@VSS all right, and pan tilt zoom commands it supports were successfully identified, you will see the PTZ control icon in the top right corner of camera's preview box on the Main Screen/Quick Settings Screen, or in the lower panel of the Quick Settings Screen. Clicking on the icon yields opening of the PTZ control. Click on the arrows to turn camera up/down/left/right. Click on + or - to zoom in or out.

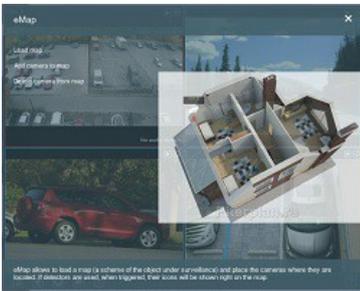
If the PTZ control is shown but clicking on arrows, + or - of the control does not work, go to the Detailed Settings Screen for this camera, open module settings of the Universal camera and go down to the PTZ options list. Try different options there, if any other is detected for your camera. If a non-standard port is used for pan tilt zoom commands in your camera, you can specify the correct one in the provided box. If none of this works, try using a different URL for your camera or contact Docokame@VSS Support Team to get information.

2. Digital zoom. Digital zoom is a method to digitally enhance the image, bringing the subject closer electronically without using the lens.

If your camera has a quite high resolution and you need to descry a far away object - just enable the option in the Main Menu of the Quick Settings Window or the Archive Viewer Window and zoom in and out by scrolling mouse wheel.

3. PTZ control in a browser. See [webserver](#)

2.9. eMap (interactive map of the site)



E-Map displays the monitoring area on an electronic map, by which the operator can easily find the cameras. Download the facility plan to the program and locate security equipment. Drag and drop camera icons on the scheme, name your cameras and specify each camera angle. To improve video surveillance effectiveness please use the built-in motion and noise detectors. As soon as one of the detectors will trigger, Docokame@VSS will show you what is happening on the map. You will see the red sensor and can easily determine in which room there was a movement or noise threshold exceeded the limit. Navigate to camera preview in 1 second!

Modules settings

3.1. Sources settings



Universal camera

This module allows you to select as source of the image - a camera (IP, USB, including wireless cameras) or world Internet camera ('Random IP Camera'). Name of the camera can be specified in Preview module settings (or Preview and Archive module).

For USB-cameras: choose your camera from the list. Select the required combination of image refresh rate (fps) and image resolution (set by the camera's drivers). Below are the regular settings for image settings like brightness, contrast, sharpness, etc. that you can change with the slider. 'Back to defaults' will set the settings back to the camera's initial settings.

For Internet cameras: you can specify the image refresh rate in the advanced settings menu.

For IP cameras:

1. select your camera from the list of available (auto detected) cameras;
2. if your camera is not on the list, choose the camera's manufacturer and specify its IP, if needed along with access data (username and password);
3. if your camera still doesn't display image, check if it's connected, then choose 'Manual Setup' and fill in the 'Full URL' field, and if needed access data (username and password) fields;
4. you can also specify a [URL for direct storing to the archive without re-encoding](#) (for RTSP cameras);
5. you can expand/minimize advanced settings by clicking on the text button below.

Advanced settings for IP cameras:

- Sound settings

1. Sound URL field
2. Sound quality (sampling frequency) settings

- Settings for PTZ cameras:

1. HTTP port to control PTZ functions of the camera (if the port differs from a standard port)
2. Turning on/off horizontal or vertical inversion of PTZ
3. Available PTZ options - if the automatically detected PTZ API doesn't work for you, try selecting other PTZ presets from this combobox.

For analogue cameras:

Docokame@VSS supports **video capture cards** that use DirectShow/WDM drivers and have 1 chip per channel. Such capture cards are seen in Windows as a number of separate devices (Device #1, Device #2, etc.) Docokame@VSS will detect them as a number of USB webcams. Docokame@VSS works with default settings, so if something is not working the way you wanted, you need to change the defaults on your card/analogue camera.

Docokame@VSS also works with **DVRs** that have direct URLs for JPEG, MJPEG, WEBM (VP8 and VP9) or MPEG-4 streams for each channel and stream video over http or rtsp protocols. Docokame@VSS "sees" such DVRs as a number of separate IP cameras. Sometimes these cameras are found automatically with simple search or search by IP/password (both launched in '+' menu in the panel below). Sometimes, however, in order to connect DVR to Docokame@VSS, you need to know the exact URLs for video streams of this DVR (http/rtsp for MJPEG/H264). It can be found in the device documentation, or its web admin interface, or you can contact the manufacturer of this DVR and ask them directly.



Microphone

This module allows you to select the sound source - microphone. Select the microphone from the list of available audio devices. Whether you need this module in your chain, or not, depends on the type of camera - usually USB cameras require the Microphone module to work with sound, while IP cameras usually have the sound stream embedded and don't need a Microphone module. **Note:** microphone is not a video source and doesn't require additional [licenses](#).

Use this module to monitor your staff activity.



File reading

This module allows you to select JPEG or MJPEG files as image source. Name of the camera can be specified in Preview module settings (or Preview and Archive module). Specify the full path to JPEG or MJPEG file you want to use as a source.

Use this module to broadcast specialized advertisements in JPEG or MJPEG format, especially useful for resellers to promote the program.

Screen capture



This module allows you to record your screen(s) (only on Windows). As usual, you can give name to this source's preview box in Preview module settings (or Preview and Archive module). In this module's settings you can specify the frequency of shots and size relative to the original imagesize.

Used with motion detector, it can help you start recording as soon as there's activity on the computer.



Use this module to monitor what your children or staff are doing on their computers.

Another Docokame@VSS

The module allows you to receive audio / video stream that is transmitted by other copies of Docokame@VSS over the network. To do this, specify the URL of the audio / video stream and access parameters, in 'Another Docokame@VSS' settings. Name of the camera can be specified in Preview module settings (or Preview and Archive module). You can set image resolution and frame rate in the advanced settings.

[More about Another Docokame@VSS and Web Server connection](#)



FTP receiver

The module allows you to use an FTP server as a source or, simply put, stream your camera image to Docokame@VSS via FTP. It's convenient when you don't want or cannot perform port-forwarding on your router at the place where camera is located, or when there's no IP address that can be assigned to the camera (like when the camera is connected via the mobile Internet) thus no program can find it. Configure your camera so that it passes the image (JPEG) on to the FTP server via the IP address of your computer using the specified port, user name and password. You can assign this module a preview name in Preview module settings (or Preview and Archive module).

Detailed photo instruction on how to set this module up can be found [here](#).



HTTP receiver

This module allows you to get video and audio from another Docokame@VSS server. Enter port and path to access this Docokame@VSS from other Docokame@VSS copies.

To restrict access to this address, enter username and password. In the corresponding field you'll see the address for access to video or images.

3.2. Destination settings



Alarmsound

This module allows the server to play the specified sound at image received. In Docokame@VSS Pro the sound can be played on clients too. If you want the signal to be triggered when motion is detected, plug it after a motion detector. You can select a wav sound file from the list or specify the path to the file manually, specify the file playback interval (sound will be played with each incoming frame, but not more than the specified interval) and duration of play. Click 'Test' for verification of the settings.

Use this module to signal the guards that something is happening on the screen.



Application runner

This module allows you to run the specified application. If you want the application runner to be triggered by detected motion, connect it after motion detector module. Specify the path to the program to run with the use of macros and interval (program will be run with each incoming frame, but not more than the specified interval). Click 'Test' for verification of the settings.

Use this module to run the third party application, for example



Pop-up window (in Client)

This module allows you to automatically restore Docokame@VSS from the minimized state at received incoming frames.



Sms Sending

This module allows to set up the automated sending of text messages (SMS) to a cell phone. You can set the interval between messages sending, and use macros to specify which camera and at what time detected motion. Select one of the options to send messages: with use of clickatell.com or bulksms.com sites, or using a GSM modem.

If you choose clickatell.com, you will need to specify your login, password and API ID (or just API ID) received after registration on the site. In modem option, you only need to connect the modem. After that, enter phone number(s) to send messages to, message text and select sending frequency.

API ID (Api key) - This key is available on the site that you use.

In **clickatell.com** you need to go to the tab 'Manage my product', click 'My Connections' and select 'XML' in the drop down box 'Add connection', then click 'Submit and Get API ID' - your API ID will appear in the window.

Balance: 10 Username: ClientID:

Central Home My Settings **Manage my Products** Billing Message Reports Help

Manage my Products

- Get Connections
- My Connections**
- Converters
- Two-Way Messaging
- Application Forms

Two-Way Application
 SA Shortcode IMO
 Namibia Shortcode
 USA Shortcode
 UK Shortcode
 Canada Shortcode
 Au Shortcode
 India Shortcode
 Clickatell ICM

Network Freeze

Please note that network operators have imposed freeze periods lasting until the 15th of January 2013 during which time applications will not be processed. We are therefore unable to provide you with new long codes or short codes during this time. For network specific detail, please speak to a support consultant <<http://www.clickatell.com/about-us/contact-us/our-office/>>

Test Message in Message Box

Please Note that Clickatell pre-populates all test credits with a standard test message. Once you have purchased Clickatell credits, the test message will be removed and you will be able to send personalized text messages.

[Buy SMS Credits](#)

My Connections:

Add Connection Show All Connection Types

Name	Type	API ID	Dialing Code
XML API created 08/10/2012	XML API	3396703	
XML API created 17/10/2012	XML API	3396715	
HTTP API created 18/10/2012	HTTP API	3396881	

1 to 3 of 3

In **bulksms.com** you will need only login and password you got during the registration. You can also get 5 free text messages for testing with this service.

Sender's number or name: you can use any name, but you must be registered on the site, with which you are sending text messages. If you get an error after the test that warns you about the wrong sender, the name you specified is incorrect, or not consistent with the administration of the site. If you leave the sender field empty, number that you specified during registration will be used.

Recipients' numbers: SMS can be sent to multiple numbers at the same time, just separate numbers by ';', ' ' or space.

For more information, go to the site you are registered with.

After the module is set up, click 'Test' to test its work.

Use this module to send messages about emergency situations. Problems detector module plus sms sending can notify you about:

- RAM is running out;
- Disk space is running out;
- The server was restarted incorrectly;
- No audio stream;
- Picture became too dark;
- Picture became too bright;
- Camera turned or obscured;
- The server was restarted correctly;
- No access to database;
- Database errors;
- Camera image is missing or isn't changing;
- The network resource is not available anymore.



Sending Email

This module allows you to set up automated e-mailing at event detection. You can set the interval between emails, and attach incoming video and images (specify maximum count of attached images, time between pictures captures, videos' fps and duration, and maximum size of messages). Also use macros to work with the problems detector and motion detectors. **Pictures that can be attached - up to** is how many pictures you can have attached to each email message according to **Max message size** set up with the slider below.

For example, you don't want each message to be bigger than 2 Mb. It means that each message can have up to 26 pictures (this number can vary depending on camera's resolution & picture size - which in most cases can be configured in web admin of your camera).

Select your mailserver from the list or specify your own. If your mailserver is not listed, you can specify the settings manually. Enter SMTP-server address and port as well as the method for encrypting data. Enter username and password of your email. In 'Recipient' line specify recipient's email (or emails separating them with space, comma or semicolon). You can send email to multiple addresses. Enter subject and message text (optional). Click 'Test' for verification of the settings.

Please note that if you connect email sending module after motion detector, it will certainly affect the result. For example, if you have a 1 minute interval between messages and set up the email sending module to attach 2 pictures to each message. This means that every 30 seconds the program will check motion detector if there is motion at THAT moment. If there is, the picture gets stored in temporary memory waiting for being sent. If not - it doesn't. In the next 30 seconds the program checks again, to get another picture if there is motion this time. And at that instant it sends an email with all pictures that it stored during that time interval (during 1 minute in our example). If there are no pictures, no message is sent.

If you want to be able to view the attached videos on your mobile device, MP4 format of videos should probably be your choice for it is supported by most mobile devices.

Use this module to send emails about emergency situations. Problems detector module plus email sending can notify you about:

- RAM is running out;
- Disk space is running out;
- The server was restarted incorrectly;
- No audio stream;
- Picture became too dark;
- Picture became too bright;
- Camera turned or obscured;
- The server was restarted correctly;
- No access to database;
- Database errors;
- Camera image is missing or isn't changing;
- The network resource is not available anymore.



Save to file

This module allows you to save incoming frames in specified file. You can specify the path to store videos and images, name to be assigned to stored files and use macros therefor. For example, you want JPEG images to be saved on the C drive in the Public folder and subfolder Pictures with a core name img and added current date and time. Specify the full path to the file C:\Users\Public\Pictures\img_% ym-d_h-is%. jpg. You can specify the interval between frames saving.

Use this module to save different files to different discs and folders.



FTP upload

This module allows you to upload an image or video file to a specified FTP (SFTP) -server. Specify server address, port, username and password and check the box for secure connection. Specify the path to the saved file using the offered macros. You can specify the interval and type of stored data. Click 'Test' for verification of the settings.



HTTP request sender

This module allows to generate and send HTTP requests. If you want to send motion-triggered requests, connect the module after the motion detector module. Check the box 'Show all parameters' to set request parameters. Use the **{ID}** macro while setting up parameters for module's unique identifier. The resulting URL will be shown in 'Resulting URL' field.

Use this module to send HTTP request to a third party devices, for example to open the gate and etc.



HTTP request sender

This module allows to generate and send HTTP requests. If you want to send motion-triggered requests, connect the module after the motion detector module. Check the box 'Show all parameters' to set request parameters. Use the **{ID}** macro while setting up parameters for module's unique identifier. The resulting URL will be shown in 'Resulting URL' field.



HTTP upload to other Docokame@VSS

This module can transmit video and audio over the net to other copies of Docokame@VSS. Enter port and path on a remote Docokame@VSS server, to transmit audio and video to.

To restrict access on a remote server, enter username and password. In the corresponding field you will see the address that will be used to access video stream or images.



RTSP Broadcasting

This module allows to transmit data over the network using rtsp broadcasting. Additional software ffmpeg is required for broadcasting in libx264. You can download it from our site or use your ffmpeg. By downloading ffmpeg from our site you accept terms of the GNU GPLv2+ license agreement. Additional software is not required for broadcasting in mjpeg or mpeg4, as it can use the embedded ffmpeg. You can also select the desired compression level for the resulting stream.

Use this module to emulate rtsp ip camera.



Web server

[More about web server here](#)

Use this module to broadcast your camera on your site or to view your camera via browser.



Archive

[More about archive here](#)

Use special option in this module to synchronize with SD cards.

3.3. Filters



Day Detector

This module automatically filters frames in low (insufficient) light. To disable the module, uncheck box in upper right corner. In this case all following modules will not receive image. If you want to disable the filter without disabling the whole chain, check 'Hidden' - the icon will have different color of the filter circuit then. To enable the module back, check the box.

Use this module if you want automatically record video at daytime.



Motion detector

[More about motion detector here](#)

Use this module to detect motion, absence of motion, to ignore cloud or shade movement. Combine this module with PTZ tracking to monitor moving objects. All these functions will help you to control your staff.



Object Detector

It's an enhanced version of Motion Detector that will allow to follow objects around even if they are not moving, and distinguish separate objects from each other.



Scheduler

This module allows you to set the days and time when connected to scheduler modules will work. You can specify days and time of work, for example from 5 pm to 11:59 pm on weekdays (that is till 11:59:59 because the minute gets recorded to the end). You can also specify time for work days and set round-the-clock work on weekends. To disable the module, uncheck box in upper right corner. In this case all following modules will not receive image. If you want to disable the filter without disabling the whole chain, check 'Hidden' - the icon will have different color of the filter circuit then. To enable the module back, check the box.

Use this module to detect on schedule.



Marking

This module helps embed watermark of time and date, GPS coordinates or custom text into image from the camera or other video source. You can choose marking position, date/time format and set up desired font size.



Sound detector

This module filter out image if the sound threshold is not exceeded. The scale of current sound level lets you know what intensity of sound is needed to make your system react. Post-record option allows to save to archive frames after sound ended. If you use IP cameras, please set up audio URL in the "Universal Camera" module. If you use sound sources, please add a "Microphone" module to the chain before the Audio detector.

Use this module to activate recording after a loud clap (broken glass or shot).



Face detector

The module and is meant for detection of human faces in the cameras' field of view. It can be used to detect excessive presence of people where they are not supposed to be or, in reverse, detect if there are insufficient staff.



Problems Detector

This filter module notifies you whenever emergency situations arise: no image from camera, no sound, camera was turned, image is too dark, image is too bright, no free disk space left, RAM is running out or server is restarted. Archive's timescale marks the intervals where a problem was detected or was no recording because of camera issues (camera "freezes", etc.).

Use this module with sms or email sending modules to inform you about emergency situations. Problems detector module plus sms/email sending can notify you about:

- RAM is running out;
- Disk space is running out;
- The server was restarted incorrectly;
- No audio stream;
- Picture became too dark;
- Picture became too bright;
- Camera turned or obscured;
- The server was restarted correctly;
- No access to database;
- Database errors;
- Camera image is missing or isn't changing;
- The network resource is not available anymore.



Image Resize

The ImageResize module allows to reduce the size of the incoming image.

Adjust the size of the result image in % of original's size in the settings of the module.



Image Rotate

The Image Rotate module allows to rotate and flip camera image.

Use slider to set the rotation angle. Untick the "90-degree pitch (rounded down)" option to use arbitrary rotation angle. Otherwise, when ticked, it will round down the value to 0, 90 or 180.



PTZ tracking

This module allows to automatically move a PTZ camera in the direction of moving objects. For PTZ Tracking to work, the camera must support PTZ functions and the module should be connected in the chain after a Motion Detector module. You can set up sensitivity, detection method and other settings in 'Motion detector' module's settings. This way 'PTZ Tracking' will be working accordingly.

You can set the speed of reaction to moving objects (the camera will move if the motion lasts longer than the selected length); time to return to the start position and wait until the next tracking; move and zoom limits for the camera; as well as step size for camera movement and zoom (affects speed/rotation angle).



Automatic Number Plate Recognition (ANPR)

[More about ANPR here](#)



Fisheye Dewarping

This module allows to dewarp image from fisheye cameras and get it in the regular format.



Visitors Counter

The Visitors Counter module allows to count how many visitors were detected in the field of view of the camera, and show this information on preview. For example, paint a line in Motion Detector's settings of the monitored zone. Connect Visitors Counter after the detector. Everyone crossing this line will be counted as a visitor. You can use either of the two counting methods: 1-directional count is meant for when visitors only move in 1 direction - either enter or leave. With this method, each crossing of the line will add 1 to the counter. 2-directional counter should be used in environments where visitors can be both entering and leaving the place. With this method, every 2nd crossing of the line will be counted as 1 visitor. 'Reset the counter every' defines how often the counting will be started anew (for example, at the beginning of the day or a shift). You can also save reports in a CSV file.



Use this module to monitor your staff.

PrivacyMasking

PrivacyMasking module that allows to dynamically blur areas in view of camera that you are not allowed to record.

Use this module to hide private areas on your recordings.



ButtonSwitcher

This module allows for quick turning on/off of the modules in the chain connected after this module with the help of the button in the lower panel or option in Main menu. Add the Button Switcher module into the chain and click the lower panel button or option in the Main Menu whenever you need, for example, to start or stop recording fast. You can set module's name (ID). All modules with the same ID will be affected the same way (turned off or on).

Use this module to quickly start/stop recording.



Unitor

The Unitor module helps combine output from two video sources into one. Connect two cameras or other video sources to the Unitor and you will have a merged image as the result. Additionally, you can use 1 audio source.

You can select cameras' position in relation to each other (horizontal or vertical combination), as well as change their order.

Please note that Unitor will give you only 1 audio stream in the result.

Use this module to combine two video streams in one.

For more information on this module, please read the [Unitor article](#) or view the [Unitor video](#).



Relay switch

This module is a streams switcher. When it receives a signal from a managing module, it closes the circuit and lets through the stream from the managed (secondary) chain.

For example, connect two Universal cameras to the Relay Switch module. Put a Motion Detector after the first Universal camera but before the Relay Switch. This way, when motion is detected, the second camera will be turned on and start passing its video stream to the modules you connect after the Relay.

Depending on the selected mode of operation, the Relay Switch offers various types of behavior after the motion from the first camera is over.

"On as long as there's signal" - the secondary chain will be turned on and working as long as the managing module keeps sending the signal, and turned off when it stops.

"On with the 1st signal, off with the 2nd" - the secondary chain will be turned on when the first signal comes, and turned off when the next signal comes.

"On just once, during the time selected below:" - the secondary chain will be turned on just one time when the signal comes, and turn off automatically after the time you specify below with the slider.



HTTP marking

This module is a combination of "HTTP switcher" and "Marking" modules. This module allows to switch on/off all following modules (the whole chain connected after the HTTP marking) and save meta information upon receiving an http-request. It works like a circuit breaker/closer and can receive commands to either break the circuit (with the URL for switching off) or close it (with the URL for switching on). It saves meta information about the command and the identifier (ID). With this ID, you can find an entry in the web archive and view it (Web Server module required in a scheme then). Upon receiving a **command to continue**, the module keeps the circuit closed. If a **command to continue or switch off** has not been received in a long time, the circuit will be broken automatically.

For example, you can connect HTTP marking in a chain before the Archive module, and send the switching off URL with the identifier (example: "id=123"). To continue recording, send the command to continue. To resume recording, send the switching on URL request.

Requests can be sent through home automation systems or simply via a web browser.



HTTP switcher

This module allows to switch on/off all following modules (the whole chain connected after the HTTP switcher) upon receiving an http-request. It works like a circuit breaker/closer and can receive commands to either break the circuit (with the URL for switching off) or close it (with the URL for switching on).

URL-path for switching off: send this http request to make HTTP switcher block video stream for the set period of time (or permanently, until the switching on URL is sent).

URL-path for switching on: send this URL to make HTTP switcher stop blocking the video stream (close the circuit). If there is a timeout specified, when it's finished, the module will resume blocking the video stream.

For example, you can connect this module in a chain before the Archive module, and send the switching off URL when you need to stop recording. To resume recording, send the switching on URL request. Requests can be sent through home automation systems or simply via a web browser.

Use **{ID} macro** to get a unique name for this module. If macro is not used and the path is the same for all HTTP senders, upon receiving a request all modules of this kind will be switched on/off.

Use **"timeout_seconds"** parameter to set or change time of work (for example: `http://10.1.10.10:10090/http_sender_on?module=HttpSwitcher.7&timeout_seconds=5`).

Use **"show_status"** parameter to get the module's current state information (for example: `http://10.1.10.10:10090/http_sender_on?module=HttpSwitcher.7&show_status`).

3.4. Motion detector

This module is very important in security camera software, as it allows you to set motion detection in a given area. Use sensitivity level scale to specify what data will be saved to archive. The 0 level denotes that the system will be very sensitive to any objects of any speed or size. 100 means high sensitivity level, at this level only major objects with unquestionable motion will trigger the alarm or any other action you specified. The scale of current sensitivity level lets you know what speed and rate of motion is needed to make your system react.

Set up the zone of detection of any shape or size. Use red color to define the area where motion is to be monitored. Leave transparent spots where motion will be ignored. You can change brush size for filling or clearing zone of monitoring. In the 'Auto' mode automatically brush effect - filling or clearing - is selected automatically depending on the area under the brush. Only objects of bigger size than your 'Object size' will trigger the alarm, so please choose carefully.

The visualization of movement allows to trace the motion path of a moving object. So even if you weren't there to catch the movement, you can always see where the moving object was coming from.

You can choose between two detection methods in Docokame@VSS security camera software: by comparing adjacent frames (the so called *frame differences* method) or by comparing the accumulated background (the so called *background subtraction* method).

Additionally you can choose detection delay - motion lasting less than specified value (in seconds) will be ignored. Pre-record lets you store the events preceding the direct detection of movement to archive. Post-record option allows to save to archive frames after movement ended.

Settings can change the color they're written in. If a setting is blocking video, it will be colored in yellow. If the setting starts to let the video through to following modules, it gets green.

With the "**Detect only the absence of motion during**" option you can make the motion detector work in reverse and detect only when motion in front of the camera stopped, for example, when counters or moving parts of equipment are being monitored. Use the slider to set time - if motion will be absent for more than this value, the following modules will be triggered.

"Continuous work to enable search by motion in the archive": if ticked, the motion detector will be switched to the "Skipping" state (when archive is connected after the motion detector, it will conduct continuous recording). The option is used when continuous recording is required but search by motion is needed in the archive. This way the motion detector in Docokame@VSS security camera software will only collect data about motion events.

3.5. Archive

Archive saving

The "Preview and Archive" module allows you to store the incoming image to the archive for a later view and displays the image on the screen. Like Preview module, it allows you to view current image in real time mode. When the cursor is on the corresponding preview box, it gets a blue frame around it.

In its settings, you can give your camera a name to be displayed on main window in preview box for this camera or while assigning User access rights; and set a certain group or group for this camera to belong to for further work with [Device List](#). Also, in this module's settings you can set storage time of records (meaning how long the records will be kept until they are over-written by more recent records); maximum archive size (the disc space that this camera takes on your hard drive for archive); and frames saving frequency.

In the advanced settings (click to expand the advanced settings) you can reduce image resolution and quality of stored frames in % of the original (by default it's the same as the original image); specify path to store archive files to, or set a global limitation (will be applied to all archives) of how much free space Docokame@VSS should always leave free.

Note: thanks to loop recording, once the limit is exceeded Docokame@VSS's archive will start recording over oldest materials. You will **never** have to face the problem of the full disk or archive stopping recording if the place reserved for it comes to an end. But if the global disc limitation setting leaves Docokame@VSS no place to store records to, it will not record. Under the path box there's a `Preview.Archive.{Number}` name that will be useful should you decide to look for Docokame@VSS records for this camera directly on disc.

Archive playback

All recordings from the camera(s) will be stored in default user catalog, unless you set another path, conveniently sorted in folders by date. Archive recordings can be watched in both online and offline mode. You can browse the archive, with Docokame@VSS continuing to monitor and record.

Archive of Docokame@VSS is equipped with a handy built-in media player. Timescale of the archive is adjustable (seconds to days) so you can easily and quickly find the required time period and begin playback from that point. Pull the timescale slider to the right or to the left to change timescale, or scroll your mouse wheel. Moreover, the Calendar lets you choose date and time for quick jump. Use arrows to navigate and choose the date and time. You can adjust the records playback speed, for example, to play fragments in the fast mode that are of little or no interest to you and focus on the parts worth more attention - pull the speed slider to the right or to the left to accelerate or slow down playback (by default set at usual speed). Pushing white arrows on the sides of timeline will make the slider bar jump to the next/previous event (if this is motion-triggered recording) or to the next/previous minute (if this is a continuous recording).

Archive player menu has Export, Start position, Delete and Search by motion options. Start position allows to set what part the archive will be opened at when you enter it next time - at the very first entry, at 5 minutes to end of the archive or at the moment where you left off (the latter being the default).

Export allows to save a certain extract from the archive in the format of your choice. This will come in handy if you usually store in MJPEG (.xem) and need to show an extract from the authorities and need it to be playable in most players. Or, you need to save just a screenshot from the archive. This all is done via the Export option. Click it once to get the white little triangles shown over the timeline. Move them to enframe the needed extract. Go to the menu and click Export once again. A prompt will be shown asking where to save this extract to and what format it should be converted to.

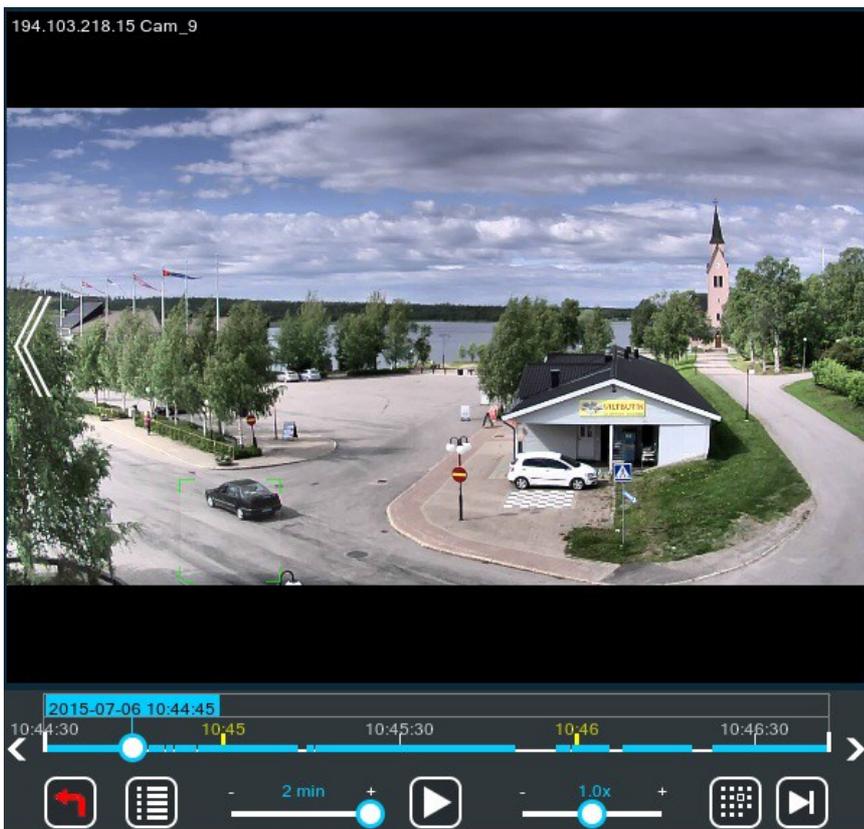
With **Delete** option you can permanently delete fragments from the archive. It works similar to export - select the fragment with white markers and click the option again. Be careful, this action cannot be undone.



Professional features in Archive (requires Pro license)

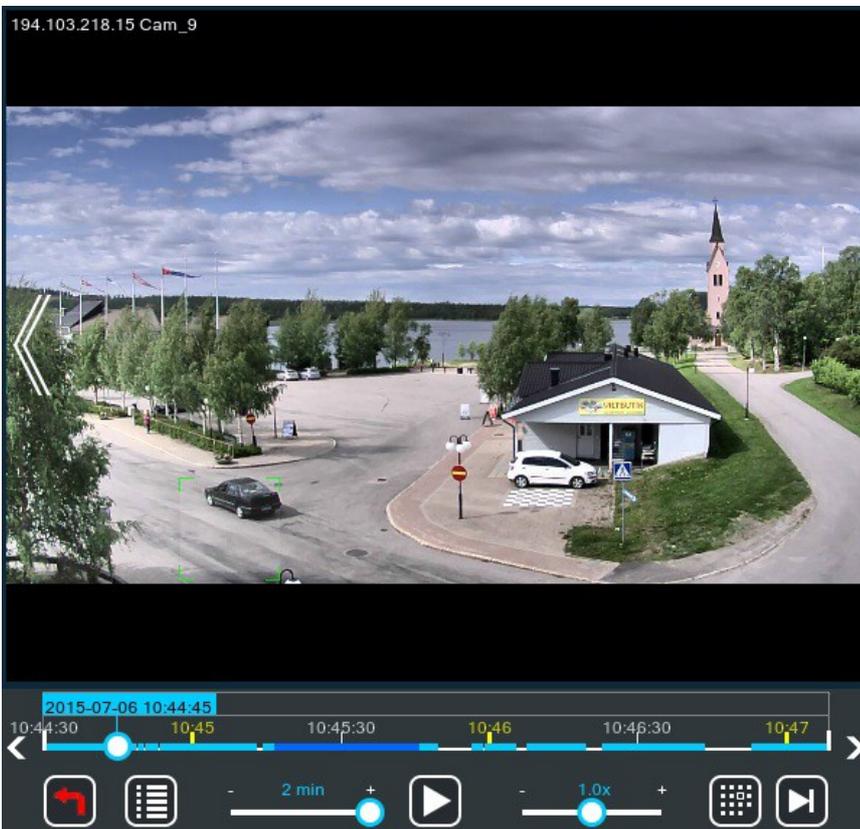
Visualization of motion

Visualization of motion function doesn't only detect moving objects, it also provides its tracing.



Possibility to mark a piece of an archive as undeletable

Select a certain period of time in archive and mark it as undeletable (Archive-> Main menu-> Delete interval-> Save selected interval as undeletable). This function allows you not to lose important segments of the recording and will reduce to the minimum the possibility of their removal by operators.



Search by motion

Search by motion function makes navigation in the Archive easier and more convenient. After you choose this option, select a rectangular area right over the camera view to search for motion events in. The found motion events will be showed on timeline in green color. You can have several search areas selected at the same time. To unselect an area, click inside it. To unselect all areas, use the option in the archive player menu.



You can estimate required disc space for archive storage with our [minimum system requirements calculator](#).

See also: [Tips on reducing CPU and memory load and required disc space](#)

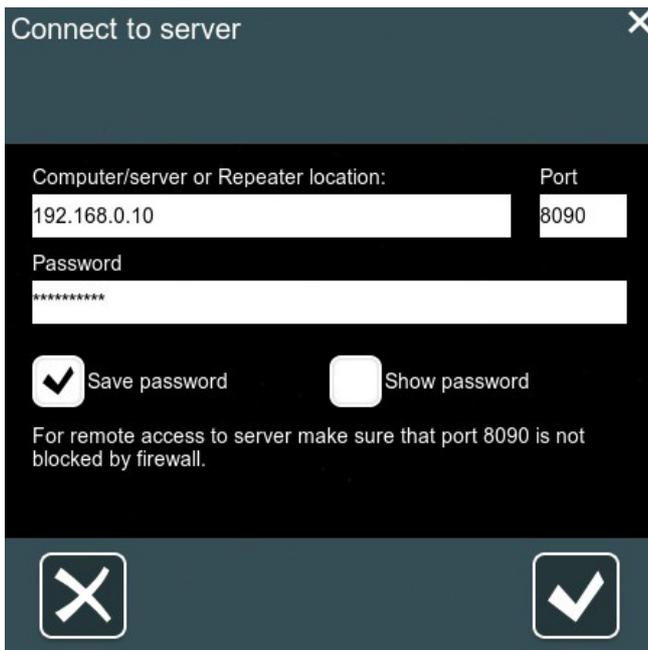
CHAPTER 4. MORE FEATURES FOR ADVANCED SURVEILLANCE

4.1. Docokame@VSS Client-Server Architecture

Docokame@VSS is based on Client-Server architecture. It means that there are 2 parts of Docokame@VSS - Docokame@VSS Server and Docokame@VSS Client - that

build its architecture. **Server** is processing cameras and other sources and basically does all the automated work while **Client** is used for viewing and interacting with server.

When you first download Docokame@VSS, you get it in an executable file form. When you run Docokame@VSS IP camera software with this launcher, you run both Server part and Client part. Server is working in background and Client is what you see as main Docokame@VSS window.



Later on, when you use remote access, you will use the benefits of this client-server architecture to connect with the client part on one computer to the server part on another (you can connect multiple clients to the same server). It's done via [Main menu](#) -> Remote access -> Connect to Connection dialog, where you need to replace 'local' IP address (address of the computer you run Docokame@VSS on) with 'remote' IP address or Repeater location, see [remote access info](#).

No matter in what mode you use your Docokame@VSS, it can work either with or without being installed on your PC. The difference is that if you need Docokame@VSS to start automatically at your PC's every restart, you need to set it to autostart - either server alone or with client part.

To do that, just check boxes in installation menu.

Licenses are only for the server part. This is a great news for those who are planning to use remote access feature - no matter how many clients connect to the server, you only buy license for the server. Check the most economical offers for Docokame@VSS licenses at our [purchase page](#).

4.2. Program installation

Docokame@VSS doesn't require installation and can start working right after being downloaded. You may want to install Docokame@VSS to make it start with your OS automatically.



Please note: Docokame@VSS doesn't install anything without user's consent. Installation is user-definable.

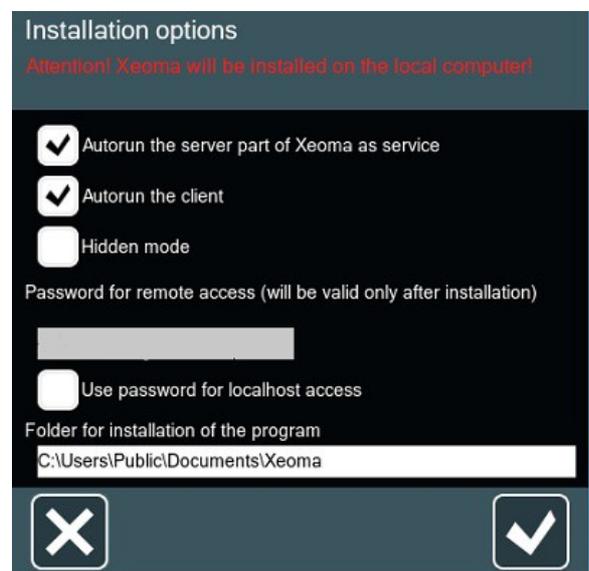
Go to Main Menu -> Install -> Install. You will get a prompt asking what type of installation you prefer and what folder would you like to choose for the software installation.

Autorun the server: [Docokame@VSS Server](#) will start automatically with your OS's each start. This is a good thing for example when you need server to process cameras all the time while you only will connect to it with [Docokame@VSS Client](#) from time to time. To do that, launch the created Docokame@VSS shortcut on your desktop.

Autorun the client: Docokame@VSS Client (visual part) will be started automatically with your OS's each start, for example it can be a good idea if you have server somewhere else and would like to connect to it automatically remotely.

Note: 'Hidden mode' and 'Client autostart' are mutually excluding options because when you need stealth surveillance you wouldn't want Client part to open up automatically at each PC's start, completely ruining all of the conspiracy you've created, would you? Then choose one - either client autostart or hidden mode, or none - if you don't need it all (for example, if you are not going to work with cameras or recording on this PC like when you are broadcasting some footage continuously to a site or FTP server). If you choose Autorun to server and **Hidden Mode**, Docokame@VSS will work in stealth mode. Launcher for Docokame@VSS will not be created on desktop (and if it was previously, it will be removed). Docokame@VSS Server will start automatically every time OS is started but will not be shown in running processes.

When you ticked desired installation boxes and clicked OK button, the part or parts you chose will be installed **on your local PC** and restarted. Please pay attention: your settings will not be saved if you are using Docokame@VSS in trial mode (for more on



Docokame@VSSmodes and their limitations, please see [here](#)).

Important: installed server works as service. It can be stopped in Services folder of your task manager, or uninstalled (and thus stopped) with a client.

Below the software installation options there is your password for remote access displayed in the box (non-editable). Tick the check box to set this password for local access as well (so, anyone accessing Docokame@VSS even on this very computer, 'locally', will have to enter a password. This password can be changed in [User rights dialog](#).

4.3. Licensing

Licenses can be purchased online on Buy page. Once you activate a Docokame@VSS license for any amount of cameras, you get your version upgraded to the Standard edition with unlimited possibilities, full remote access, and more. You can use it as long as you want and/or need to. Licenses are for lifetime with free updates included for 12 months since purchase date.

Licenses summarize. You can add unlimited number of licenses to the ones you already use and thus use as many cameras as all of your activated licenses allow in total. Buying licenses is a one-time payment: no monthly or yearly fees required. However, Repeater and Cloud subscriptions are not included in regular Docokame@VSS licenses.

In most cases you will receive license immediately after payment. If you're purchasing the license via PayPal or swift bank transfer, it may take a couple of business days for the payment to reach us. License activation takes just a few seconds.

License is universal for Windows, Linux, MacOS or Android. Any license can be activated only on 1 device! License is hardware dependent but survives OS reinstalls. Moving licenses is only allowed in exceptional cases. To do that, please go to [the license reset page](#).

Connection to the activated Docokame@VSS from Docokame@VSS-Client is free, no matter how many clients are connected.

Licenses are bought on a 'per cameras/video sources per server' basis meaning that you need a license for as many cameras (video sources) as are used on one server. You will need separate licenses for each of such servers. Please contact us to ask for a quote for your installation. Camera/video source is any video source of signal (camera, Another Docokame@VSS, screen capture, file reading).

You can see the information about your licenses in Docokame@VSS (Main Menu --> Information --> Active licenses).

ATTENTION: If you have difficulties with your license, or did not receive your license right after purchase had been confirmed, please contact us!

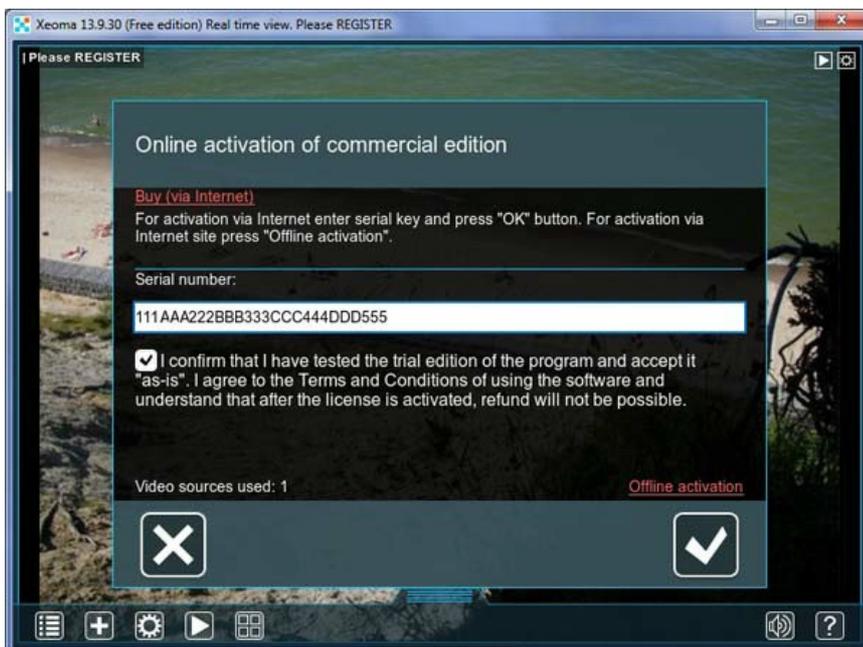
4.4. Program activation

After you have bought a license, you will get an alphanumeric serial number. Use one of the methods to activate your license and switch your Docokame@VSS to a commercial version of your choice or add renewal(s) to existing license(s) already activated on this machine.

To activate **Docokame@VSS Pro Cloud** licenses, please [follow the instruction](#).

Online Activation:

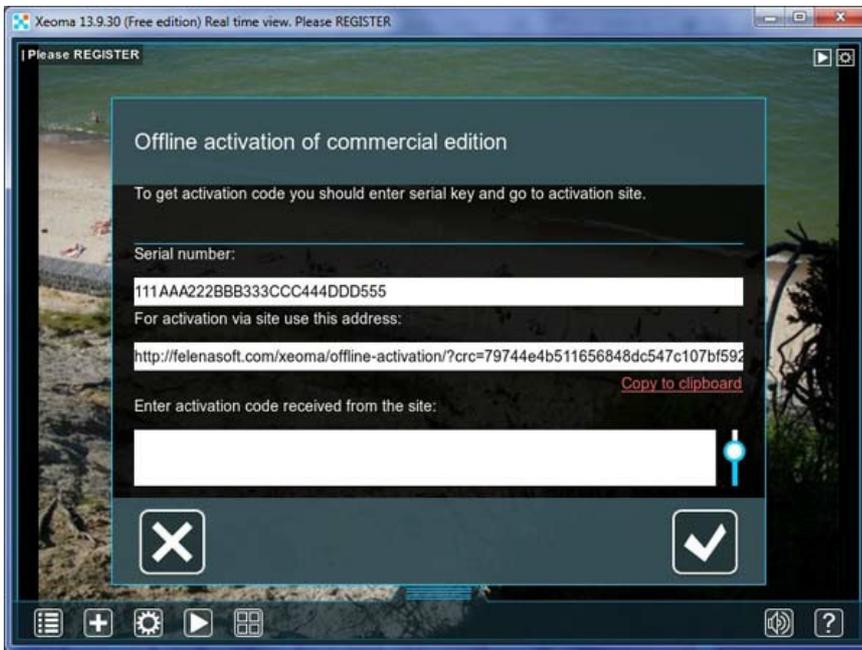
Internet access required. Can also be used behind [proxy](#). Simple type of activation. Simply paste the license (serial number) into the Online Activation field (Main Menu --> Registration --> Activate or Main Menu --> Information --> Activate) and click OK button. After the activation is completed successfully, a message will appear with indication how many video sources you are able to use now.



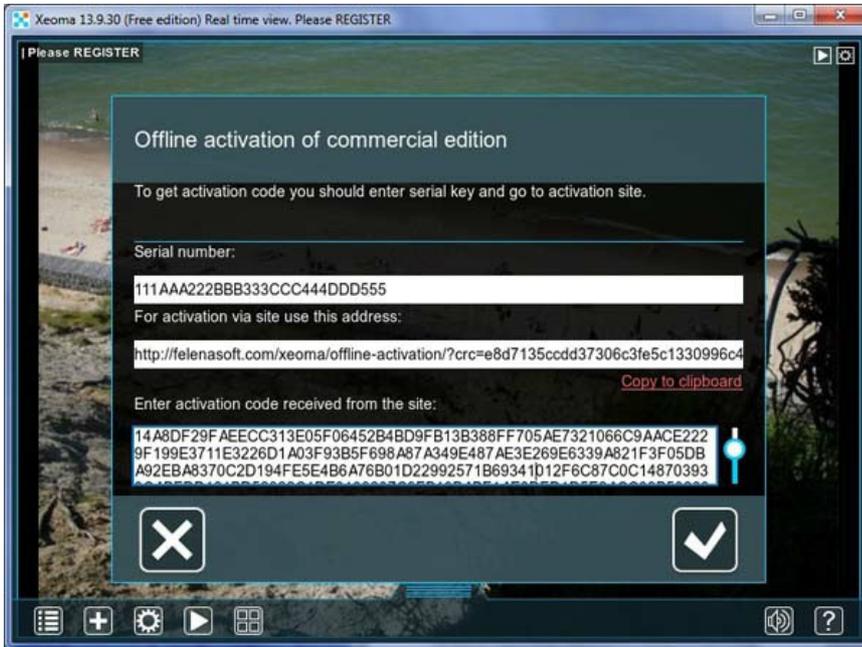
Or, if required, click on Offline activation.

Offline activation:

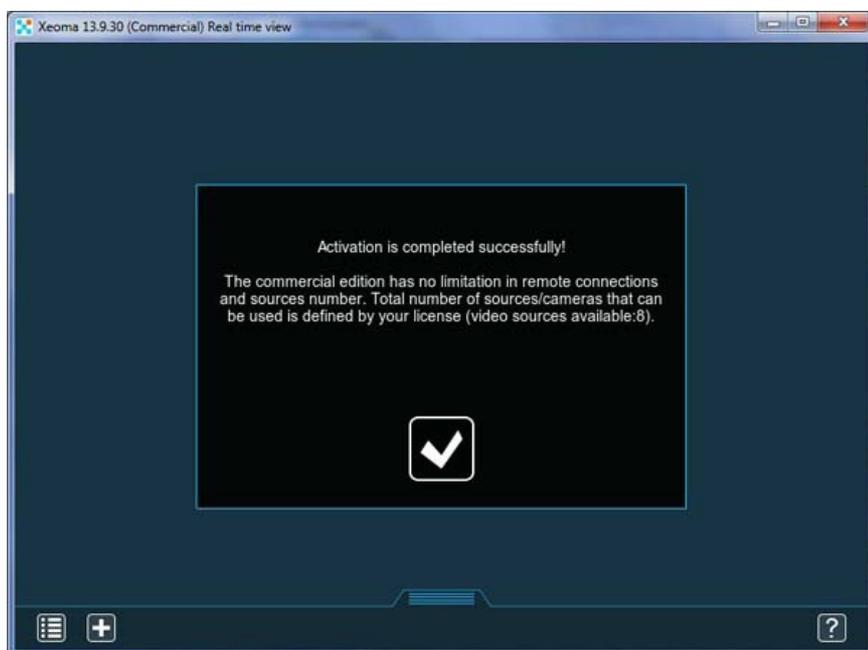
If your PC is not connected to the Internet, or using Internet connection is undesirable, use Offline activation (Main Menu --> Registration --> Activate --> Offline activation link or Main Menu --> Information --> Activate --> Offline activation link). On your computer that you want to activate Docokame@VSS on (that is on the **one with no Internet connection**) paste your serial number into the field, and copy the link that appears below.



Paste this link into any web browser on another PC or any other device that has Internet connection and get an activation code from the site. This code should be entered in the field 'Enter activation code... ' on that PC you'd like to use Docokame@VSS on (**the one with no Internet connection**), then click OK.



In both cases, if the activation was successful you will get the 'Activation successful' message:



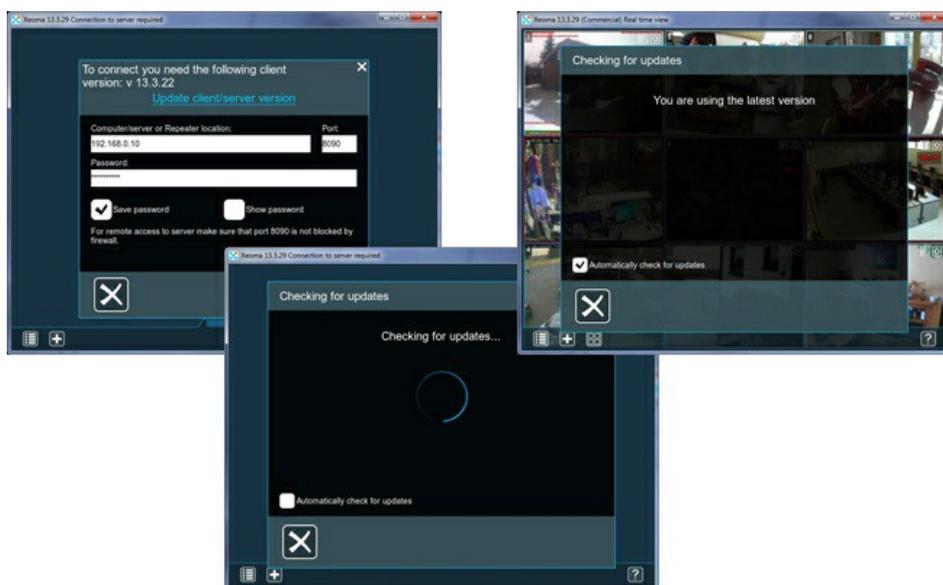
No matter what way to activate your license you choose, with Docokame@VSS commercial edition you will get unlimited possibilities and activated benefits.

For information on activation Docokame@VSS using a proxy server, please see [this section](#).

4.5. Updating Docokame@VSS

The process may vary depending on what version of webcam software Docokame@VSS you have and whether you have installed Docokame@VSS (through [Main Menu](#) --> Install --> Install) or not.

1) If you have Docokame@VSS 13.3.22 or higher: you can use all benefits of auto-update check and notification, and easy 1-click update:



You can check if there are any updates available through Main Menu -> Information -> Check for updates. If you chose auto-search for updates you will get a notification about available updates at program start!

2) If your Docokame@VSS is 13.3.7 or older:

- a) If Docokame@VSS is not installed, there should be no difficulties - just run the newer file downloaded from [our site](#) or any other resource.
- b) If Docokame@VSS is installed, you need to launch the older version, go to Installation Options and click Uninstall all except for archive and settings (please be careful, this is important to keep your current settings and transfer them to the newer version). Then, you can run the newer Docokame@VSS and install it if needed.

Also, important is to remember when you bought your license. Free updates are only included for the first 12 months since purchase date. After that you will have a choice of whether to continue on using the latest available version by the time the free updates period expires; update Docokame@VSS to the newest version and therefore give up on using the license; or buy a new license and get more 12 months of free updates.

For information on your activated licenses, go to Main Menu -> Registration -> Active licenses. For information on all licenses registered, please the online form at felenasoft.com web site.

Note: beta versions are not counted as an update. To update your version in use to a beta version, use manual update (pt.2).

For information on updates using a proxy server, please see [this section](#).

4.6. Operators and user access rights

4.6.1. User access rights (user permissions)

In user rights dialog (MainMenu -> Remote access -> Users) you can create user profiles with specific access rights and permissions. In this dialog you can restrict or allow access to view of cameras (real-time and archives), PTZ control, settings, for all or certain cameras.

Click 'Add' to add a new user. To edit a profile's password or rights, select the profile and apply changes; then click the OK button. The 'Duplicate' option copies the assigned rights for the follow-up user. Please note that all user names and passwords must be unique.

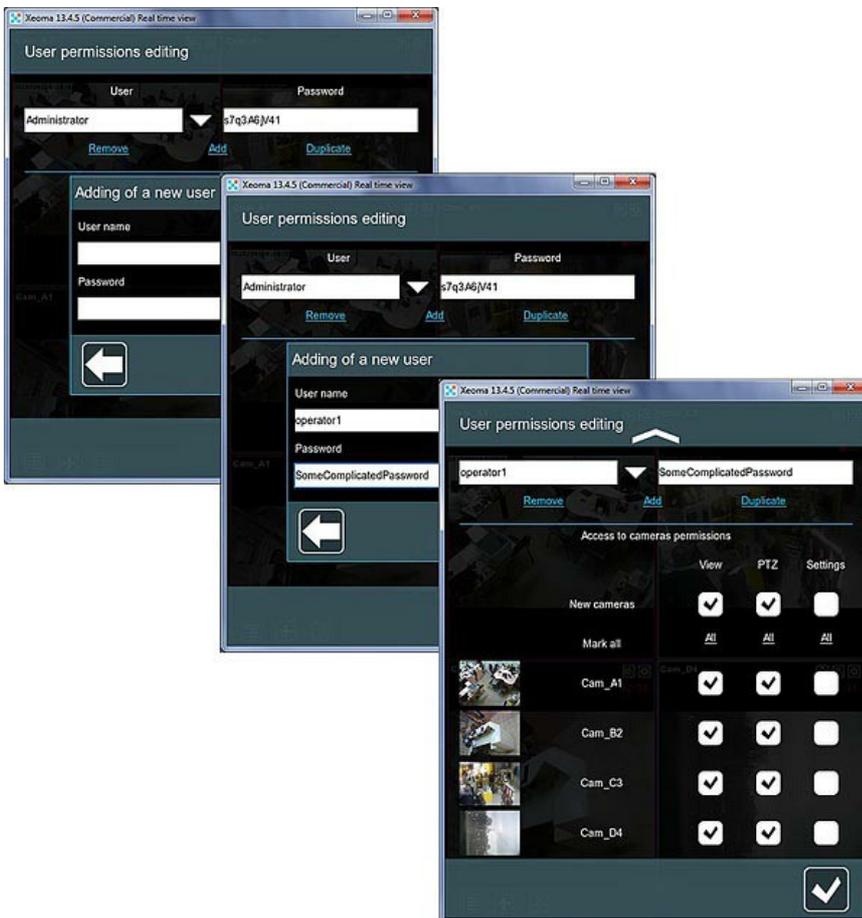
The created password, along with the server's IP address, should be used in the Docokame@VSS's [Connection Dialog](#) to login under this user profile. Pay attention that user profile's name is just for information and is not used in the Connection Dialog.

Check the 'Multiple access under a user' option to allow this profile to be used on several machines simultaneously. If it's not checked, only one connection with this data will be accepted at a time.

When administrator profile is selected, you can **change your local and remote access password** that was originally generated by the program (simply type it in the field instead of the currently used). For security reasons, this password is impossible to retrieve so make sure you remember the password, or save it to a safe place.

Also, when under administrator, you can allow or restrict access to Layout and Main Menu. If those options are ticked, all users will need to enter a password to access any or both of the menus (won't work if the password box is empty).

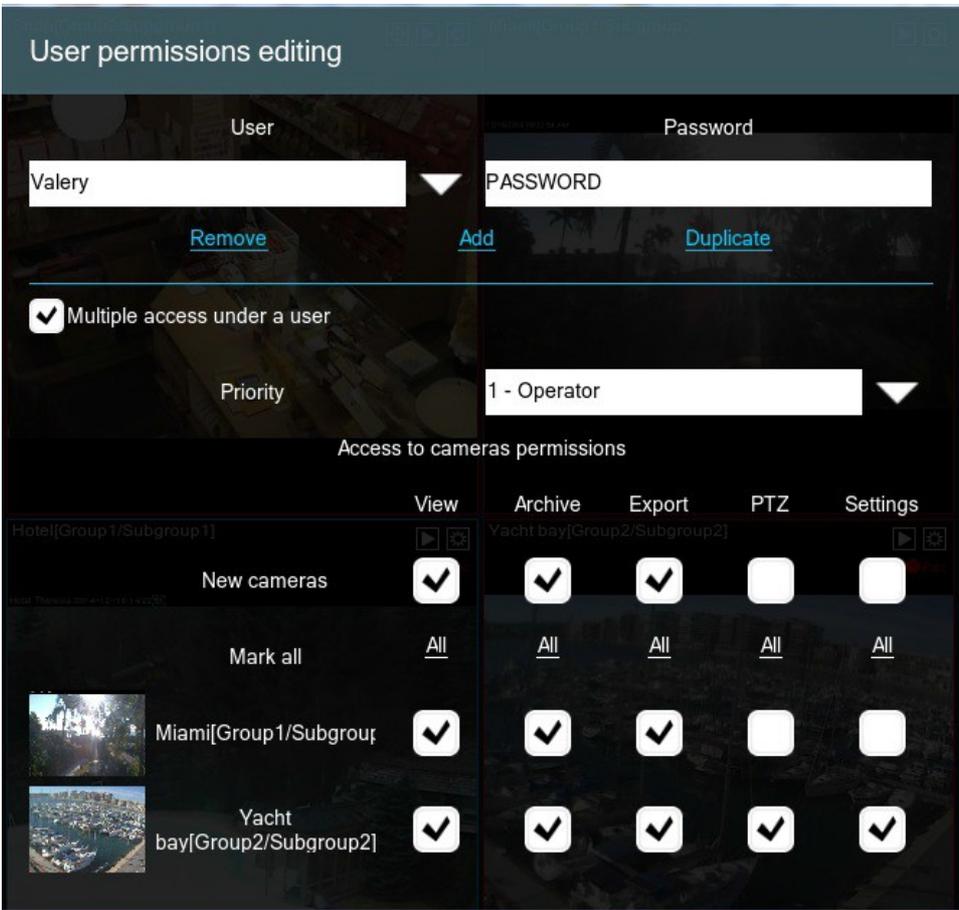
Please note that there can be only 1 administrator profile and multiple access is automatically allowed for this one.



4.6.2. PTZ blocking

You can block PTZ for operators. To do this you need to go to **Main Menu -> Remote Access -> Users**

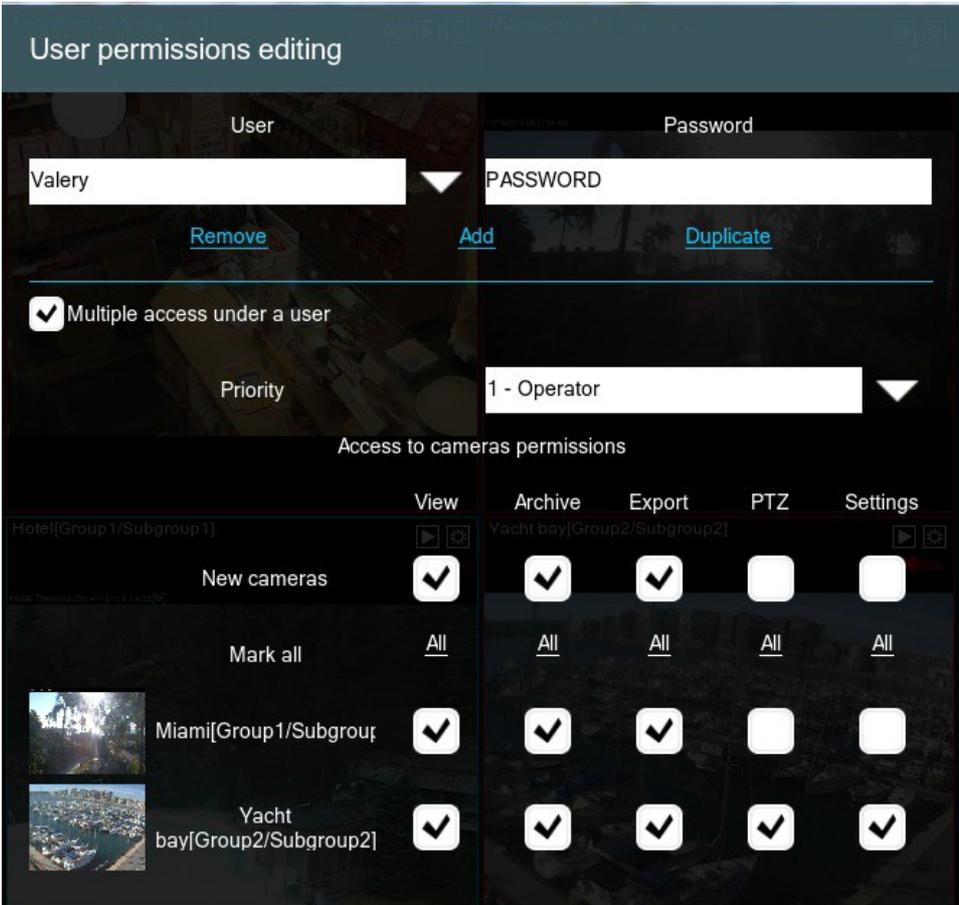
If you want to completely block PTZ usage of any camera, you can remove the tick from the check box next to the desired camera. Thus, we have completely blocked the use of PTZ of the selected camera for the specified user.



If you want to allow your operators to use PTZ of a camera, but you need to set some restrictions, you should use the **Priority** levels.

What does it mean?

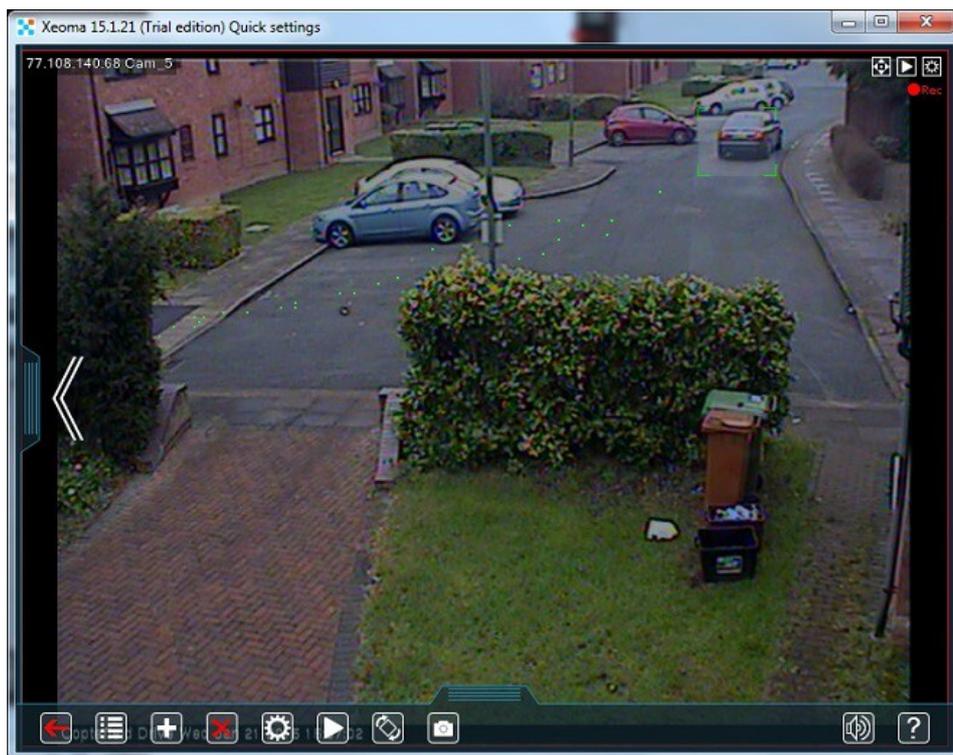
Imagine a big factory where there are a lot of cameras. Most likely, this factory will be monitored on several levels of management, from the security guards, ending the CEO. **Priority levels** will help the upstream user to block the downstream. So, the Administrator with a 10 priority level blocks downstream users from 1 to 9. Users with priority from 11 to 15, can block both the Administrator and downstream users, etc.



4.7. The visualization of movement (motion tracking)

Docokame@VSS supports visualization of movement and motion tracking. After activating this option all objects that are moving will be enframed and you will be able to see the "track" - green dots - the moving object has left in course of its movement.

To turn on/off the visualization of movement go to Layouts and choose there "Turn on the visualization of movement"/"Turn off the visualization of movement".



CHAPTER 5. REMOTE ACCESS

5.1. Work with proxy servers

You can make Docokame@VSS work with a certain proxy server. Use the `-proxy` command while launching Docokame@VSS via command line or Terminal, followed by the proxy server's address. For example:

```
C:\Documents and Settings\1>C:\xeoma.exe -proxy 192.168.58.157:8080
```

If you don't need to use proxy server anymore, you can disable this option with the `-proxyclear` command.

5.2. Remote access options

Docokame@VSS offers a variety of options to establish remote connection of various types and for various purposes - client-server connection, multi-server connection, 'Web server'-'Another Docokame@VSS' pair of modules, and browser remote view. Let's get deeper into what they are for and how to use them.

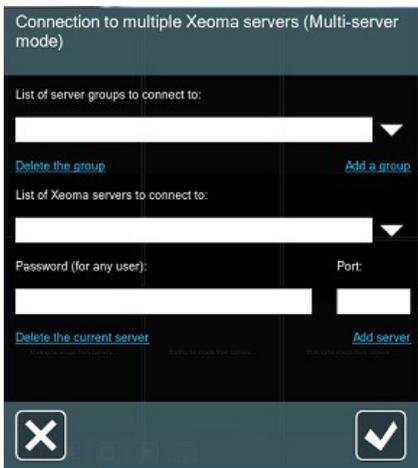


1) Client-Server connection.

Used to: view **all** cameras, access (view and change) settings for cameras and other modules, view real-time and recorded footage.

How to: Run / install Docokame@VSS on machine #1 and use this computer's external IP address, available from the Internet, to connect to the machine #1 from other machines - their total number is not limited. Just run Docokame@VSS on those other machines (they can be under an OS other than machine #1's), go to Remote Access menu and specify machine #1's IP and password.

More about connection without a static external IP address in our article [How-to: Using of remote access in video surveillance](#)



2) **Multi-server connection.** This is just another type of client-server connection.

Used to: view cameras in real-time and archive recordings from **several** Docokame@VSSs at the same time.

You can find full instruction on how to set up the **Multi-server connection** [here](#).

3) 'Web Server' - 'Another Docokame@VSS'.

Used to: view a **certain** camera of machine #1 in real-time and record footage from this camera on machines other than machine #1.

How to: Run Docokame@VSS on machine #1, connect 'Web server' module to a camera and set the module up. On another machine run Docokame@VSS and use not a universal camera but 'Another Docokame@VSS' as a source. In settings of the module you need to specify machine #1's available from the Internet IP address and stream info.

*you will need as many 'Web server' - 'Another Docokame@VSS' junctions as cameras you want to

see. More on topic in our [Docokame@VSS Web Server](#) section



4) Browser View.



Used to: view a **certain** camera in real-time **in a web browser**, for example through mobile devices.

How to: Run Docokame@VSS on machine #1, connect 'Web server' module to the camera and set the module up. In the module's settings you will find a link to paste into web browser.

*you will need as many 'Web server' modules as cameras that you want to view in a browser.

More on topic in our [Docokame@VSS Web Server](#) section

5.3. Repeater service - access your computer everywhere even without a real Internet address

See also [Repeater video](#)

Repeater is a service similar to but more powerful than dynamic DNS. It gives you an opportunity to access your computer with Docokame@VSS program even if it is not available from Internet, i.e. inside firewall, at private IP address space, at mobile network, or in some Asian countries where no real IP addresses are available.

With Repeater service enabled in Docokame@VSS you can access your cameras, archive or settings even if your computer is not accessible from Internet.

All you need is to enable this service in Docokame@VSS via Main Menu -> Remote access -> Repeater setup. You will get Repeater connection data that you will then be able to use to connect to this server from a client (specify this data in [Connection dialog](#)).

You don't need Repeater if your server has a static IP address or if Docokame@VSS Cloud is used.

If you have difficulties with repeater activation please try temporary turn off or uninstall your antivirus. Then activate repeater and turn on (or install) antivirus.

Also see: instruction on [remote access using the Repeater service](#).

5.4. Docokame@VSS Web server module

You can also view [Docokame@VSS Web server video](#)

Docokame@VSS Web server module differs from most of the modules because of its multi-functional nature. For example, compared to the Scheduler module, that can only be used in one way - to turn the system on or off - the Web server module can be used in various ways to reach various goals.

Remote view of cameras via browser



Most popular purpose of Docokame@VSS Web server is to enable live view of a camera or cameras from almost any device with access to the Internet, even on a non-supported operating system. After you connect this module to the camera, you will be able to view the camera remotely in a browser (for access from outside of local network, you will need to have static real IP address).

Simply connect the Web server module to the camera in chain. Enter its settings, where you will find the links (URLs) to access various streams - JPEG images, MJPEG video, Flash video with sound, web server general page to view all cameras that have a Web server module connected to them on this computer.

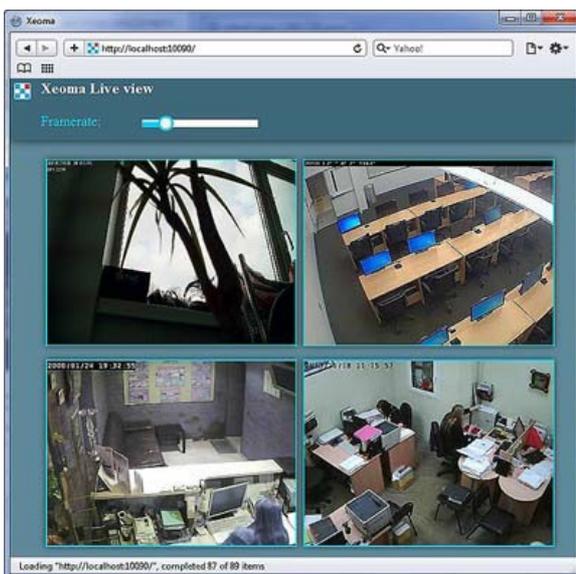
Please note that by default the links are for view from within the same network; that's why they contain 'localhost'. For remote view from outside of this network you need to replace localhost with the computer real static IP address. The links can be edited outside of Docokame@VSS. Copy the link and paste it into a browser.

Attention! Not all browsers support live view of MJPEG streams. Please find out if your browser does in a table below.

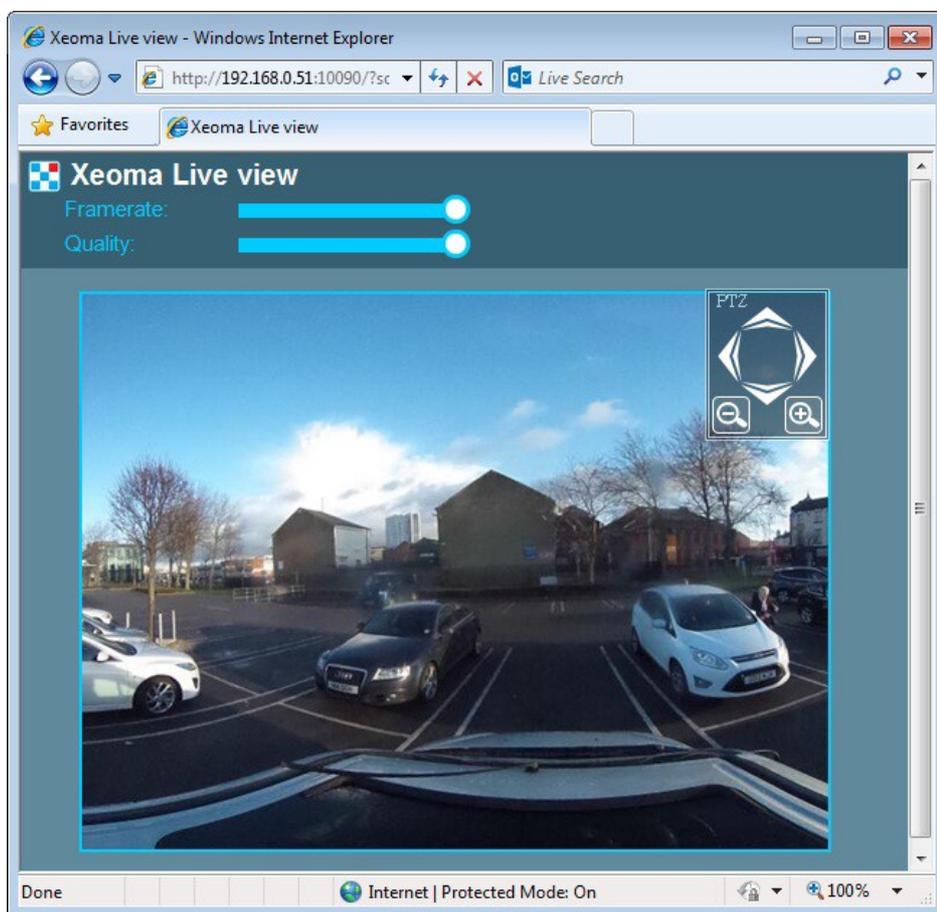
List of browsers supporting MJPEG live video streaming:

Do support	Do not support
Web browsers	
Opera (error may occur)	Internet Explorer (only with use of external plugins and applets)
Firefox	
WebKit-based browsers (Google Chrome, Safari - up to ver.6.0)	
Mobile (cell phone, smartphone) browsers	
Safari	Android (only with use of external plugins and applets)
Opera mobile	BlackBerry (only with use of external plugins and applets)
Dolphin	Nokia (only with use of external plugins and applets)

If your browser doesn't support MJPEG, you can either use another browser or use dynamically updated JPEG pictures instead of actual MJPEG videos. With **http://IP:10090/** you can access web server main page and view all cameras altogether that have a Web server module connected to them on this computer.



In the browser you can view cameras that have "Web Server" modules connected and turned on live, their archived recordings, and control PTZ functions (if cameras have PTZ functions and they were detected in Docokame@VSS). The PTZ control will appear in the Single Camera View Screen of Web Interface (PRO license is required to enable PTZ in browser).



To watch Flash video with sound via an Internet browser, tick the box and use the corresponding link (or go to Flash video broadcasting right from the web server general page):

- + Unlike [client-to-server connection](#), browser view of cameras can be performed from any device with access to the Internet, including tablet, cell phones, even those with non-supported operating system.
- But then again, unlike client-to-server connection, browser view is not available if the computer with Docokame@VSS and cameras does not have static IP address.

Saving footage to another computer

Web server module will be also of help if the objective is to save video surveillance footage to another computer, for example, to create backup footage on a central monitoring station.

In this case you will need to connect the Web server to the cameras. On another computer, where you need to store footage (in our example, that is the central monitoring station) you will need to use Another Docokame@VSS instead of the camera module:

- + On both computers you will be able to store footage and work with camera.
- You might need an additional license (if total of modules in use on either of the computers is higher than 3).

IP camera emulation

If you'd like to transform your web camera (USB camera) into an IP camera that will be accessible to other computers and Docokame@VSS Cloud. In this case, you need to connect the Web server to the camera. Other computers will 'see' it as an IP camera.

Having live broadcasting on your site

You can broadcast your camera to your site or blog. Embed the link from web server's settings into your page's code to put a weather radar or traffic demonstration on your site or blog without installing Docokame@VSS client. Broadcasting dynamically updated images or video streams - up-to-date and high-quality snapshots and videos (weather radar emulation, useful traffic information) - will make it more attractive and useful to your site's guests.

Now you can customize the web server pages! Learn how to do that in our article [Web server customization!](#)

5.5. Web server customization for online view of cameras in Docokame@VSS

To do that, you will need to Web server module to the cameras you'd like to view in web server. Enter the Web server module settings and visit the pages in a browser that you'd like to customize. A Docokame@VSSWeb folder will appear in Docokame@VSS directory. That's where you will see the needed html pages. Place all resources you are going to use (icons, pictures, other pages) here.

To access the graphic files, you will need to use a path like `imgsrc=""?obj=PictureName.png"`. Open and edit the needed html pages (even Notepad will do). You can also access other pages from the directory.

Full photo instruction on web server customization can be found in our Articles section.

5.6. Mobile video surveillance with Docokame@VSS Android app

Basically, what remote video surveillance offers is the ability to check in several, perhaps even hundreds, locations so spread out geographically that it would be next to impossible visit them with so little time loss otherwise.

Docokame@VSS Android app differs from desktop versions because due to Android regulations the app has to be installed before it can be launched. Apart from that, the app is almost an exact copy of desktop Docokame@VSS. Just client part will be launched by default. The Android app will auto detect your cameras (including the built-in camera if it's available) and connect them. You can use Docokame@VSS in the regular editions - free, trial and commercial, enjoy automatic updates, connect cameras, etc.

Docokame@VSS can be used as a client part or as cctv viewer to connect to Docokame@VSS server on another device (desktop or mobile). Fill in the fields in Connection Dialog (Main Menu -> Remote Access -> Connect to) to connect to that machine and be able to view cameras live and recorded archives, apply changes to settings.



Or, with the app, your Android-based device can become a surveillance system itself. Connect the cameras, set events and reactions up, assign user rights and much more for your new mobile video security system.



5.7. Application for iPhone/iPad

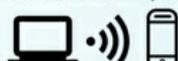
ALREADY AVAILABLE ON APP STORE

Xeoma iPhone & iPad App

Available on the
App Store



- ### Xeoma iOS client
- Remote **live** view of cameras with sound 🗣️
 - Remote view of archives
 - Connection to Xeoma Cloud or desktop/tablet server (also without static IP, via Repeater)



Connection instructions



1. Download Xeoma from App Store
2. Launch & install
3. Enter connection data - to server
←←← or Xeoma Cloud
4. Go ahead and view your cams and archives

* To change connection data click the connection button 

New Docokame@VSS for iPhone and iPad is perfect for remote view of your cameras. It can be used as cctv viewer to connect to **Docokame@VSS Cloud** or Docokame@VSS server on your desktop or tablet, even with behind firewalls (with the help of **Repeater service**).

With this iOS client you can connect to your Docokame@VSS to view camera's **live feeds and archived recordings**, with sound, and ability to zoom the picture digitally in/out, from wherever you are!

Take it with you to vacation, business trip, to the place of work. Peek in when you have time at your babysitter or seniors or make sure those you care about are safe in hospital.

Connection instructions

1. Go to [App Store](#) and download Docokame@VSS from there.
2. Once it's downloaded, it will be launched and ask to install.
3. When it's completed, a prompt will appear asking for connection data. These you can get from [your Docokame@VSS server](#) or [Docokame@VSS Cloud](#) subscription:



4. If the data is correct and the server part is available, you will be connected, and will be able to view your cameras and their archives.
5. You can go back to the connection dialog window to connect to another server. Click the connection button below.

That's it! Now you can enjoy remote access to your Docokame@VSS from anywhere at any time!

CHAPTER 6. OTHER PRODUCTS

6.1. Docokame@VSS Pro - your own cloud service and pro surveillance system!



See also [Docokame@VSS Pro video](#)

Docokame@VSS video surveillance software has proved to be an efficient, easy to handle, and flexible solution for both businesses and individuals that eager to use pro surveillance system.

Going beyond the borders of even such flexible software, **Docokame@VSS Pro** now offers you an incredible opportunity to have your own cloud video surveillance server and offer it to your clients.

How it works:

- [Download Docokame@VSS](#) for your operating system, run and [set up Docokame@VSS Pro Cloud](#).
- Buy Docokame@VSS Pro licenses for as many cameras as you need.

- Activate Docokame@VSS Pro licenses the way you activate Docokame@VSS regular licenses. You will be able to add as many cameras to your cloud service as your Pro license allows for.

It's your cloud service now, and you decide on the terms of offering it to your customers - whether it will be a 'per month', 'per year' or 'lifetime' subscription and how much it will cost, total disk space assigned to each camera, and so on.

6.2. Docokame@VSS Cloud Service

See also [Docokame@VSS Cloud video](#)

DOCOKAME@VSS CLOUD is video surveillance as a service. It means that we have Docokame@VSS running on our cloud server and you can connect your cameras there.



Why is it great?

The server will take up all load, maintenance and update, while you can connect to it at any time to view your cameras, their archives, download records of interest and use all the usual features of Docokame@VSS you might need in the cloud!

You don't need to buy or maintain expensive video surveillance equipment. Just **a camera and Internet connection is what is required**.

WHY DOCOKAME@VSS CLOUD?

With a lot of cloud CCTV services nowadays, here's why you should choose Docokame@VSS Cloud:

Quick start

Minimum requirements to start working with Docokame@VSS Cloud - just a camera and Internet connection. No special knowledge required. Easy connection with [step-by-step instructions](#) and [videos](#).

Cost-efficient and trouble-free

No need to buy a sophisticated up-to-date computer. Forget about maintenance costs and huge electricity bills for servers running 24/7. Docokame@VSS Cloud servers are set up by our team of experts and is overall cheaper and easier than regular on-site video surveillance!

Stable and secure work

Your footage is safe in Docokame@VSS Cloud video surveillance system - only authorized users have access to cameras, both in real-time and archive. Even if the camera is vandalized, they will never get the footage.

Sophisticated features

Unlike other cloud CCTV services that offer only motion detector and record (at best), Docokame@VSS Cloud offers almost all of its regular features, including PRO features: eMap, object tracking and visualization, integration with cashier registers and home automation systems, privacy masking, synchronized view of multiple archives, and [much more!](#)

Flexible pricing and NO hidden fees

Different, flexible types of subscriptions with What-You-See-Is-What-You-Get conditions allow you to find the right one just for you.

No ads, no logo watermarks even in the free version!



Every subscription has:

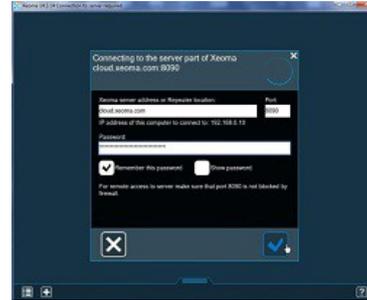
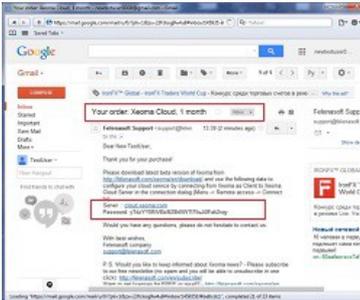
- No advertisements or logo watermarks** in camera live view or in archive.
- Unlimited live and recorded view.
- Unlimited download of videos.
- Any image resolution.
- Unlimited fps.

1. Get a subscription.

4 easy steps:

HOW DO I USE
DOCOKAME@VSS
CLOUD?

2. After having purchased a subscription, a letter will arrive to your email with the connection data and password. You will need to enter these data into **Docokame@VSS Client**.
3. Download Docokame@VSS Client from the [download page](#).
4. Run it and enter connection data from the letter into the Connection dialog.



Why is cloud-based video surveillance better than regular PC-based installation?

- o saves you efforts, time and money
- o great for locations where 24/7 running of server is not possible or desirable
- o saves electricity
- o no equipment except for cameras is needed
- o perfect for cameras positioned in many locations
- o your records are not subject to theft, safe on our cloud server

Docokame@VSS, Docokame@VSS Pro, Docokame@VSS Pro Your Cloud and

Get to know how Docokame@VSS Cloud will help your

Try **Docokame@VSS Cloud** now for free! Just [contact us](#) and request 1 day of free access to Docokame@VSS Cloud!

CONDITIONS & SUBSCRIPTIONS

Docokame@VSSCloud subscription	Average time of storage* (1 camera, only motion)	Average time of storage* (maximum cameras, continuous recording)	Simultaneous viewers (via client / via web browser)
<u>1 camera (maximum 1 GB)</u>	5 days	12 hours	1
<u>up to 2 cameras (maximum 5 GB)</u>	24 days	2 days	2
<u>up to 4 cameras (maximum 50 GB)</u>	8 months	6 days	4
<u>up to 8 cameras (maximum 100 GB)</u>	16 months	6 days	8
<u>up to 16 cameras (maximum 200 GB)</u>	32 months	6 days	16
<u>up to 32 cameras (maximum 400 GB)</u>	64 months	6 days	32
<u>up to 64 cameras (maximum 800 GB)</u>	128 months	6 days	64

[Buy now](#)

*Storage time is unlimited, it depends on camera specifications and storage space provided by the subscription. Average storage time in the table is just an approximate calculation of how long video can be retained before overwriting starts if the camera has 0.3 Mpix resolution (640 x 480 px) with 1 frame in 2 seconds refresh rate. You can calculate your average storage time based on this information, or [ask us](#).

DOCOKAME@VSS CLOUD COMPARED TO OTHER CLOUD SERVICES

You think you have an economical and easy cloud service. Not unless you tried Docokame@VSS. Other cloud services trick you into buying their seemingly economical subscriptions by adding hidden costs for nearly every feature you want to add or disable (like watermarks). Also, they set very strict restriction on what cameras you can or cannot connect while with Docokame@VSS Cloud you can use cameras of any resolution and refresh speed.

Possibilities	Docokame@VSS Cloud	Traditional cloud services
No advertisements	✓	✗
No watermarks	✓	✗
Unlimited view time (online and archives)	✓	✗
Unlimited download of videos	✓	✗
Camera of any resolution	✓	✗
Any fps (frames per second rate)	✓	✗
Sophisticated features available	✓	✗
Flexibility of subscription	✓	✗
Clear conditions without extra fees	✓	✗
Continuous OR motion-triggered recording	✓	✗

REQUIREMENTS AND CONDITIONS

The solution is ideal for cameras in single or multiple locations, such as shops, parking lots, schools and etc.!

- o Easy start - connect in 1, 2, 3!
- o There is no need to set up your own IT infrastructure;
- o When the purchased storage limit is reached, loop recording will overwrite old videos with new ones;
- o You can monitor how many subscription days are left;
- o You can use all modules of the regular version of Docokame@VSS - detectors, sms or email sending, ftp upload, etc.;
- o Not available are only modules that cannot work in the cloud (screen capture, local USB cameras, local microphone, file reading, etc.)
- o Camera requirements - jpeg or mjpeg stream with static IP address available from the Internet (or, if the address is dynamic, you can use any free DDNS service), router port-forwarding of the 80 port of the camera (you can consult this resource to learn how to do it: http://portforward.com/english/routers/port_forwarding/routerindex.htm).
- o Minimum network requirements: depends on camera image resolutions and fps (for example, 2.2 Mbit Internet connection per 1 Full-HD camera with 2 fps, or 128 Kbit per 1 camera with 800x450 image resolution and 0.5 fps, besides the load of all other users in the network). Please pay attention that as the camera broadcasts the stream constantly, unlimited traffic Internet connection is preferred;
- o You can buy additional capacity as your business grows.

SPECIAL OFFER! Contact us and request the free Docokame@VSS Cloud test period!

CONNECT YOUR CAMERAS IN 3 EASY STEPS

If the camera has external static IP address:

1. Connect to Docokame@VSS Cloud using received connection data.
2. Run the advanced search by IP/password in "+" menu in the panel below.
3. Your camera will be found and added automatically.

If the camera doesn't have an external static IP address:

1. Connect to Docokame@VSS Cloud using received connection data.
2. Add a new chain ("Add new camera" option in "+" menu in the panel below) but connect the "FTP receiver*" module instead of the

camera module.

3. Set up your camera's FTP upload to upload to Docokame@VSS as described in [this article](#). Please note that in "Server address" in camera's settings you need to specify cloud.Docokame@VSS.com.

*ATTENTION! If you'd like to use this method, make sure your camera supports FTP upload of pictures, before you buy Docokame@VSS Cloud subscriptions. [Contact us](#) to request a free test period to try it.

If neither of the options works for your cameras, you are advised to have a Raspberry Pi or other simple and cheap micro computer (\$50) on site where your cameras are, install regular Docokame@VSS there and use the FTP Upload option to upload footage to Docokame@VSSCloud. See more about [Raspberry Pi](#) and [FTP Upload](#).

CLOUD IS NOT THE FUTURE, CLOUD IS NOW!

- ◆ More than **60%** of businesses utilize cloud for performing IT-related operations.
- ◆ **82%** of companies saved money by moving to the cloud.
- ◆ In 2008, the cloud computing industry was \$46 Billion. In 2014, it's \$150 Billion.
That's a growth of over **300%** in 6 short years.

MOVE YOUR VIDEOSURVEILLANCE TO XEOMA CLOUD

No maintenance cost

Connect
from anywhere

Easy connection



Ads
and watermarks
FREE



You define
your own
time of storage

Unlimited download
from archive

Unlimited
viewing time

Stable
and
secure work

No need to use
a computer

Fair and
transparent
terms

YOUR BUSINESS BENEFITS

- ☀️ **Reduced IT costs.** Moving to cloud videosurveillance with *Xeoma Cloud* reduces the cost of managing and maintaining your IT systems. You don't need to purchase expensive systems and equipment for your business. Use your cloud resources!
- ☀️ **Your data is protected.** Whether you experience a natural disaster, power failure or other crisis, having your data stored in the cloud ensures it is backed up and protected in a secure and safe location.
- ☀️ **Always on access.** *Xeoma Cloud* surveillance systems can be accessed from home, from work and on-the-go. Anytime you want to check in, you can.



CHAPTER 7. IN CONCLUSION

7.1. Uninstallation of the program

Uninstallation of the program is easy.

If you haven't installed Docokame@VSS manually, you can **just delete the launching file** and that's it.

If you have installed Docokame@VSS, just go to the installation menu in the program and choose **Uninstall ALL**.

In case you only want to re-install the program, choose **Uninstall except for archive and settings**. Your server and/or client will be deleted from the autostart but settings (including passwords, license information and modules' settings) will remain the same.

7.2. Tips how to reduce CPU usage, memory load and required disc space

CPU usage will be significantly lower if you use MJPEG stream for view and storing to the archive (or just viewing). Learn [how to reduce](#)

CPU load in this article.

RAM usage can be great if per-record option in Motion Detector is used. If the load is too high for the machine, turn the option off.

HDD space: storage capacity depends on many factors in the field of the view, but remember that required disc space can be reduced by setting up motion and day detectors, or with scheduled recording. Another option is to use Saving to File module to save videos with other codecs (for example, highly compressive H.264) - this way videos won't take so much space but will not be played with the built-in player of Docokame@VSS either. Or, if yours are rtsp (H264) cameras, you can use direct saving to archive without re-encoding.

APPENDIX.

Typical applications. Scenarios.

Docokame@VSS for CCTV operator Aim of video surveillance for CCTV operator: to make live monitoring easier for



surveillance officers despite natural challenges like distraction, fatigue and loss of concentration in proportion to time and amount of cameras to monitor.

Solutions from Docokame@VSS:

- *User profiles* with ability to restrict/allow access to certain cameras, archives and functions. Create specific user profile and let the CCTV operator know his/her password to connect to Docokame@VSS server.

Managing large amounts of cameras:

- In the "Layouts" menu you can *divide cameras into groups* and set up *automatic scrolling* to view cameras one by one or by groups. Watch video about Layouts

- *Support for multiple monitors*. Divide cameras into groups in Layouts menu. Run several Docokame@VSS Clients. Log in with the operator's user profile password. In each Client select to show different groups of cameras. Drag Clients to separate monitors. Each monitor will show a certain group of cameras.

- *Enlarge triggered camera*: Go to Layouts -> Larger grid -> Form by detectors to make Docokame@VSS automatically put camera that detected motion into bigger slot thus calling for CCTV operator's attention.

- *Show red cross option* in Layouts will indicate when a camera froze with a big cross over its image. It's especially useful when large amount of cameras are monitored and camera preview boxes are thus too small to tell instantly if a camera is no longer working (probably, tampered with).

- *eMap* (interactive map of the surveillance object) and *Device List* (list of cameras divided into groups with quick jump to the needed camera)

Enabling CCTV operator to work with other tasks while monitoring.

- *Transparency* (Layouts menu -> Window settings): make Docokame@VSS window half-transparent to allow operator do other work and still be in tune with what is going on (for Windows).

- *Pop-up Window* module will un-minimize Docokame@VSS window when triggered (for example, when motion is detected). At other times, Docokame@VSS window can be minimized and you will still not miss what's important.



Remember that Client parts are free of charge. License is only needed for the server.

Recommended products – Docokame@VSS or Docokame@VSS Pro when needed

Docokame@VSS for security administrator



Aim of video surveillance system for security administrator: to create a video surveillance system flawlessly running without human supervision.

Solutions from Docokame@VSS:

- Work on Linuxes supported, including *in console*.

- *Install Docokame@VSS* for stand-alone work and for automated restarts.

- *Change installation folder* (Main Menu -> Install -> Install).

- Set your commands for Docokame@VSS to execute - for example, disk mounting or launching of executable files (Main Menu -> Install -> Autostart settings).

- *Problems Detector* module will notify you (Email, SMS) about suspicious changes in cameras' field of view or system health issues.

- *Logs* (console command '-logs') will save system information (camera added, client connected, etc.).

- *Multi-server mode* allows to connect to several Docokame@VSS servers at once.

- Create *user profiles* for operators.

Recommended products – Docokame@VSS or Docokame@VSS Pro

CCTV For Home



Aim of CCTV for home: to protect your house and the front yard from strangers' intrusion.

Solutions from Docokame@VSS:

Motion Detector module allows you to detect moving objects and start recording.

Sending Email module will inform you about emergencies by email.

Web Server will let you broadcast the images from your cameras to a website. This gives you the opportunity to share the image with your family or friends.

Recommended products for CCTV for home – Docokame@VSS Lite or Docokame@VSS

Office security with Docokame@VSS



Aim: to provide security of the whole territory.

Solution from Docokame@VSS:

E-map shows all your cameras on your floor plan. In case of emergency allows to see cameras' exact position on the territory and send help immediately.

Aim: to control employees' attendance.

Solution from Docokame@VSS:

Visitors Counter module allows you to count employees entering and leaving the office. *Face Detector* module will automatically find a face. If your cameras can Pan Tilt and Zoom, then *PTZ Tracking* will automatically follow a moving object.

Recommended products – [Docokame@VSS](#) or [Docokame@VSS Pro](#)

Retail store security with Docokame@VSS video surveillance



Aim of retail store security: to reveal frauds, to solve claims, to control shortage in the cash.

Solution from Docokame@VSS:

HTTP Marking allows you to synchronize Docokame@VSS with a cash register and control till slips.

Aim of retail store security: to control store traffic.

Solution from Docokame@VSS:

Visitors Counter module allows to count people entering and leaving the store. All the received data will be sent to CVS file where you can analyze it.

Aim of retail store security: to prevent breaking in through a window.

Solution from Docokame@VSS:

Sound Detector will start working if a loud sound detected (the sound of breaking window or the sound of security alarm).

Aim of retail store security: to prevent stealing surveillance records in case of robbery.

Solution from Docokame@VSS:

Docokame@VSS Cloud or Docokame@VSS Pro Your Cloud will safely keep your records on cloud. You don't even need to put a computer at a store, the only thing you need is a camera. And even if the camera is stolen – your records are still safe and available for you at any time.

Recommended products – [Docokame@VSS](#), [Docokame@VSS Pro](#), [Docokame@VSS Cloud](#).

School security with Docokame@VSS



Aim: to control students' activity in a computer class, to provide school security.

Solution from Docokame@VSS:

Screen Capture module will let you see what is happening on computer screens.

Recommended products – [Docokame@VSS](#), [Docokame@VSS Pro](#).

Hospital security with Docokame@VSS

Aim: to control medical staff, to monitor patients' condition, to provide hospital security.

Solution from Docokame@VSS:

Sound Detector will indicate whenever there is a beeping from hospital facility (which

might indicate something goes wrong with patient's condition) or a scream for help.
Visitors Counter module can tell how frequent the hospital staff comes to the



patient's room, it helps to check if the patient is being treated right and that he's not left without proper attention.

Recommended products – [Docokame@VSS Pro](#).

Airport security with Docokame@VSS



Aim: to control forgotten and unattended items, to provide airport security.

Solution from Docokame@VSS coming soon:

Object Detector module will notify you if an object is left unattended for some time.

Recommended products - [Docokame@VSS Pro](#).

Typical video surveillance goals and how to do that in Docokame@VSS

Use video source that is not a camera (Screen Capture, File Reading, etc.) - add a default scheme through the "+" menu in the lower panel, [remove](#) the Universal camera module, and replace it with the needed module from the upper panel

Fisheye dewarping - [Fisheye Dewarping](#) module

Automatic search for faces - [Face Detector](#) module

Interactive map of objects - [eMap](#) option in 'Layouts' menu

Cashier register/POS synchronization with IP cameras - [HTTP Marking](#) module

SD card synchronization - Download from SD card option in the [Preview and Archive](#) module

Crowd detection - [Face Detector](#) module

Restricted areas trespassing - [Motion Detector](#) module

Simultaneous view of several archives at once - the 'Play' button in the [lower panel](#)

Cross-line detection and alarms - [Visitor Counter](#) module in combination with needed [notifications modules](#)

Blurring (masking) image areas facing private property - [Privacy Masking](#) module

Following moving objects (tracking) - [PTZ Tracking](#) module in combination with Motion Detector

Motion visualization on preview - Visualization settings menu in Layouts menu in the [lower panel](#)

Motion visualization in archive - Visualization settings menu in Layouts menu in the [lower panel](#)

Motion track visualization - Visualization settings menu in Layouts menu in the [lower panel](#)

Motion detection - [Motion Detector](#) module

Detection of lack of motion - the 'Detect only the absence of movement' in [Motion Detector](#) module

Clouds and shadows false alarms elimination - 'Compare to the accumulated background' detection method in [Motion Detector](#) module

False alarms elimination - 'Sensitivity threshold', 'Object size', 'Disregard motion shorter than' options and detected area in [Motion Detector](#) module

Staff monitoring - [Motion Detector](#), [Face Detector](#), [Screen Capture](#), [Microphone](#) modules

Load noises detection (e.g. glass break, gunshot, explosion) - [Sound Detector](#) in combination with [Microphone](#) or [Universal Camera](#) modules

Object Detector - [Object Detector](#)

Quick turning on/off of recording or any filter or destination modules remotely (e.g. automatically by automation systems or manually in browser) - [HTTP Switcher](#) module

Quick turning on/off of recording or any other modules from Docokame@VSS's interface - [Button Switcher](#)

module Quick turning on/off of cameras from Docokame@VSS's interface - 'Turn cameras on/off' option in the [Main Menu](#)

Quick turning on/off of all modules from Docokame@VSS's interface - tick/untick modules in the popup left panel of the [Quick settings](#)

screen

Recording only in daytime - [Day Detector](#)

Recording only in night time - [Scheduler](#) module

Recording at specific time, date - [Scheduler](#) module

Turn on one camera if another is down - [Relay Switcher](#) module

Email notification about emergency - [Email Sending](#) in combination with Motion Detector, Sound Detector, Problems Detector, etc.

SMS (text message) notification about emergency - [SMS Sending](#) in combination with Motion Detector, Sound Detector, Problems Detector, etc.

Get notification if cameras are down, 'freeze' - [Problems Detector](#) + Email/SMS Sending

Get notification if cameras are tampered, obscured - [Problems Detector](#) + Email/SMS Sending

Get notification if disk space is running out - [Problems Detector](#) + Email/SMS Sending

Get notification if RAM is running out - [Problems Detector](#) + Email/SMS Sending

Get notification if processor load is too high - [Problems Detector](#) + Email/SMS Sending

Get notification if modem/router/Internet is down - [Problems Detector](#) + Email/SMS Sending

Get notification about emergency restarts of Docokame@VSS - [Problems Detector](#) + Email/SMS

Sending Get notification about database problems - [Problems Detector](#) + Email/SMS Sending

Save logs about problems, errors and program events - 'Record found problems to the log file' option in the [Problems Detector](#) module

Record two or more cameras into 1 archive - [Unitor](#) module

Change image resolution for both preview and all following modules - [Image Resize](#) module

Change image resolution only for archives - option in [Preview and Archive](#) module settings

Save videos to archive with lower quality or lower fps to save space - option in [Preview and Archive](#) module settings

Embed cameras into your site - [Web Server](#) module

View cameras in browser - [Web Server](#) module

Add date and time overlay to preview and archive - [Marking](#) module

Add custom text overlay to preview and archive - [Marking](#) module

Add GPS overlay to preview and archive - [Marking](#) module

Change font size for Docokame@VSS's marking overlay - option in [Marking](#) module's settings

Change font size for camera's own date/time overlay - check settings in camera's web admin page (outside of Docokame@VSS) Change font size for camera's name on MainScreen - option in Layouts -> Window settings

Reports of people count entering or leaving - 'Save data in CSV report' in [Visitor Counter](#) module

Control of camera's pan, tilt, zoom functions, Docokame@VSS interface - PTZ control in [lower panel](#) or on camera's preview box.
See also Control of camera's pan, tilt, zoom functions, browser view - PTZ control in Single Camera view mode (PRO license required) Connection of camera's PTZ - [Universal Camera](#) module settings

Create user profiles (operators) - 'Users' menu in [Main menu](#) -> Remote access

Restrict access to certain cameras/functions to certain operators - 'Users' menu in [Main menu](#) -> Remote access

Change administrator password/remote access password - 'Users' menu in [Main menu](#) -> Remote access

Lost administrator/remote access - [console command](#) - showpassword

Quick addition of preset chain with optimum settings - Ready-to-use chains in the [upper module panel](#)

Remote access to a remote Docokame@VSS server - [Main menu](#) -> Remote access

Simultaneous view of cameras from several servers (network clustering) - [Main menu](#) -> Remote access -> [Multi-server mode](#)

Connection to a remote server that has no external IP address - [Repeater](#)

Emulate MJPEG IP camera - [Web Server](#)

Emulate H264 IP camera - [RTSP Broadcasting](#) module (PRO)

Upload JPEGs and videos to an FTP server - [FTP Upload](#) module

Send http requests to other devices - [HTTP Request Sender](#)

Grouping of cameras - [Device List](#) in [Main menu](#)

Screenshot in LiveView - 'Screenshot' option in [Main menu](#) or 'Screenshot' button in the lower panel

Screen capture in archive - 'Screenshot' option in [archive viewer](#)'s menu

Periodic automatic screen captures - [Screen capture module](#)

Parental control - [Screen capture module](#)

Image zoom in archive viewer - [Turn zoom on/off](#) in the archive viewer menu (PRO)

Download videos from the archive viewer - 'Export' option in the archive viewer menu

Use JPEG image or MJPEG video as a video source - [File reading module](#)

Use video stream broadcast by other Docokame@VSSs as a video source - [Another](#)

[Docokame@VSS module](#) Broadcast video or audio stream to other Docokame@VSSs - [HTTP](#)

[Upload module](#)

Use video sent through FTP server as a video source - [FTP Receiver module](#)

Change language - 'Language' option in the [Main menu](#)

Save videos in the format of choice - [Save to File module](#)

View archive records - 'Play' button in the top right corner of camera's preview box (Preview and Archive module is required)

Search by date, time in the archive viewer - use the archive viewer's timescale and calendar button

Activate Docokame@VSS/Docokame@VSS Lite/Docokame@VSS Pro license (switching to the commercial version, registration) - [Main menu](#) -> [Registration](#) -> [Activate](#) (corresponding license required)

Activate renewals for Docokame@VSS/Docokame@VSS Pro licenses (extend the free updates period) - [Main menu](#) -> [Registration](#) -> [Activate](#) (corresponding renewal key required)

Activate Repeater - [Main menu](#) -> [Remote access](#) -> [Repeater setup](#) -> [Subscription](#) (Repeater subscription required)

Activate renewals for Docokame@VSS Lite - Docokame@VSS Lite doesn't support that feature

View information about your activated licenses - [Main menu](#) -> Information -> Active licenses or Main menu -> Information -> About

Remove a module from a scheme - [Recycle bin](#) in the module's settings; click on [white wire](#) connecting two modules; drag the module back to the top module panel

Add a module to a scheme - drag the module from the [top module panel](#) into the needed place in the scheme; click on the module in the top module panel

Change cameras order - drag camera's preview box to the desired place

Put camera in a large slot surrounded by smaller camera slots - option in the 'Layouts' menu in the [lower panel](#)

Pop Docokame@VSS window up when triggered - [Pop-up Window module](#)

Ring alarm when triggered - [Sound Alarm module](#)

Switch into the trial mode - option in [Main menu](#) -> Registration

Check if newer version of Docokame@VSS is available - [Main menu](#) -> Information -> Check for

updates Update Docokame@VSS to a newer release version - [Main menu](#) -> Information ->

Check for updates

Update Docokame@VSS to a newer release version - 'Update to beta versions' option in [Main menu](#) -> Information -> Check for updates

Protect access to Docokame@VSS server with a password (on the same computer) - Tick the "Use this password..." option in the Installation dialog and untick "Remember this password" in the Connection Dialog

Scale interface (for example, for mobile displays) - option in Layouts -> Window settings

Installing Docokame@VSS video surveillance software for Linux without graphical shell (for example Raspberry Pi on ARM) (via Terminal)

If your Linux is a server version or if you want to do the same through a console, run the Terminal and execute

```
wget http://felenasoft.com/Docokame@VSS/downloads/Docokame@VSS_linux64.tgz (for
```

64 bit systems) or

```
wget http://felenasoft.com/Docokame@VSS/downloads/Docokame@VSS_linux.tgz
```

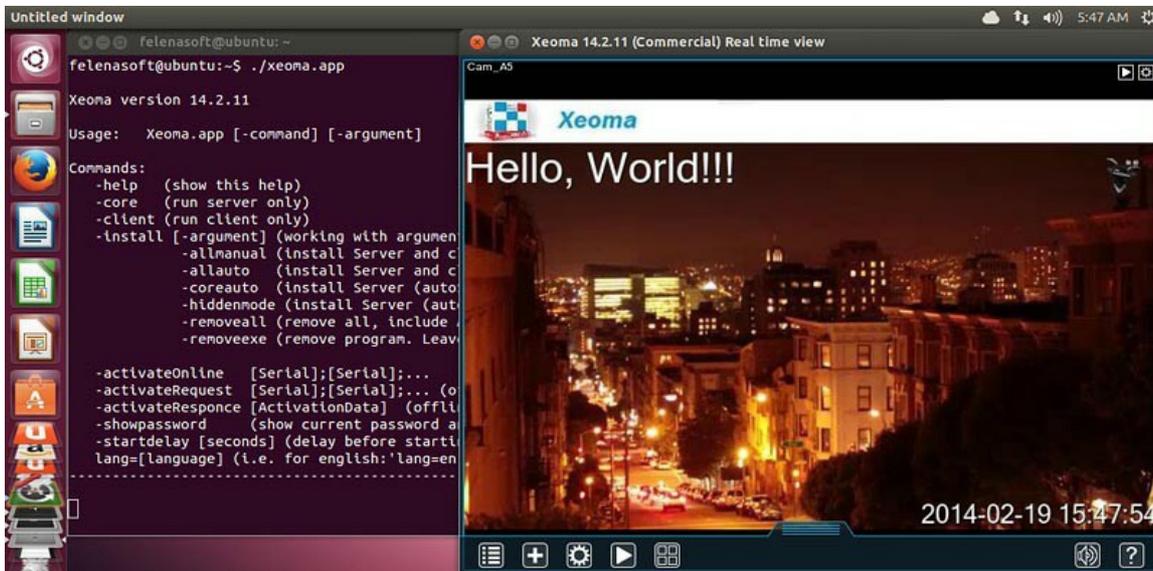
(for 32bit Linuxes). Unpack the archive with the *tar* command.

```
felenasoft@ubuntu: ~  
felenasoft@ubuntu:~$ wget http://felenasoft.com/xeoma/downloads/xeoma_linux64.tgz  
--2014-02-19 05:44:21-- http://felenasoft.com/xeoma/downloads/xeoma_linux64.tgz  
Resolving felenasoft.com (felenasoft.com)... 184.172.133.98, 2607:f0d0:1301:c::2  
Connecting to felenasoft.com (felenasoft.com)|184.172.133.98|:80... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 15208258 (15M) [application/x-gzip]  
Saving to: 'xeoma_linux64.tgz'  
  
100%[=====>] 15,208,258 333KB/s in 58s  
  
2014-02-19 05:45:19 (256 KB/s) - 'xeoma_linux64.tgz' saved [15208258/15208258]  
  
felenasoft@ubuntu:~$ tar -xvzf xeoma_linux64.tgz
```

After unpacking is done, you will get the **Docokame@VSS.app** file. Run it to start Docokame@VSS (both server and client parts at once). When you access the file, the short help will be displayed with commands that can be used.

```
felenasoft@ubuntu: ~  
felenasoft@ubuntu:~$ ./xeoma.app  
  
Xeoma version 14.2.11  
  
Usage: Xeoma.app [-command] [-argument]  
  
Commands:  
-help (show this help)  
-core (run server only)  
-client (run client only)  
-install [-argument] (working with argument only)  
-allmanual (install Server and client with manual start)  
-allauto (install Server and client with auto start)  
-coreauto (install Server (autoStart) and client (manualStart))  
-hiddenmode (install Server (autoStart) hidden mode used)  
-removeall (remove all, include Archive and config files)  
-removeexe (remove program. Leave Archive and config files)  
  
-activateOnline [Serial];[Serial];...  
-activateRequest [Serial];[Serial];... (offline activation)  
-activateResponse [ActivationData] (offline activation)  
-showpassword (show current password and set enable network access)  
-startdelay [seconds] (delay before starting in seconds)  
lang=[language] (i.e. for english: 'lang=en'; for russian: 'lang=ru' etc.)  
-----  
|
```

Running **Docokame@VSS.app** will only be good if your Linux has a graphical shell. The client part - the visual part - will then be displayed:



Otherwise, you can just run the server part without displaying the visual part (the client part):

```

felenasoft@ubuntu:~$ ./xeoma.app -core

Xeoma version 14.2.11

Usage: Xeoma.app [-command] [-argument]

Commands:
  -help (show this help)
  -core (run server only)
  -client (run client only)
  -install [-argument] (working with argument only)
  -allmanual (install Server and client with manual start)
  -allauto (install Server and client with auto start)
  -coreauto (install Server (autoStart) and client (manualStart))
  -hiddenmode (install Server (autoStart) hidden mode used)
  -removeall (remove all, include Archive and config files)
  -removeexe (remove program. Leave Archive and config files)

  -activateOnline [Serial];[Serial];...
  -activateRequest [Serial];[Serial];... (offline activation)
  -activateResponse [ActivationData] (offline activation)
  -showpassword (show current password and set enable network access)
  -startdelay [seconds] (delay before starting in seconds)
  lang=[language] (i.e. for english: 'lang=en'; for russian: 'lang=ru' etc.)
  -----
Xeoma server is started in foreground.
  
```

You can change language via console, install and uninstall the program, run it and activate it.

```

felenasoft@ubuntu: ~
Commands:
-help (show this help)
-core (run server only)
-client (run client only)
-install [-argument] (working with argument only)
  -allmanual (install Server and client with manual start)
  -allauto (install Server and client with auto start)
  -coreauto (install Server (autoStart) and client (manualStart))
  -hiddenmode (install Server (autoStart) hidden mode used)
  -removeall (remove all, include Archive and config files)
  -removeexe (remove program. Leave Archive and config files)

-activateOnline [Serial];[Serial];...
-activateRequest [Serial];[Serial];... (offline activation)
-activateResponse [ActivationData] (offline activation)
-showpassword (show current password and set enable network access)
-startdelay [seconds] (delay before starting in seconds)
  lang=[language] (i.e. for english: 'lang=en'; for russian: 'lang=ru' etc.)
-----
felenasoft@ubuntu:~$ ./xeoma.app -client
felenasoft@ubuntu:~$ ./xeoma.app -showpassword
Current password for network access: 123
felenasoft@ubuntu:~$

```

To setup other features (for example, add and configure cameras, add user profiles, change password and set it for local access, etc.) you will need to connect to this server part from a client. The machine with the client part must have graphical shell. This can even be your Android smart phone.

As you see, Docokame@VSS video surveillance software for Linux is as easy to handle as Docokame@VSS for other operating systems. Moreover, you can save not just nerves and time but also money with Docokame@VSS on Ubuntu or other Linux distros.

Console commands

When you access Docokame@VSS in a Terminal, you'll get these regular commands

displayed: Usage: Docokame@VSS.app [-command] [-argument]

Commands:

- help (show this help)
- core (run server only)
- client (run client only)
- install [-argument] (working with argument only)
 - allmanual (install Server and client with manual start)
 - allauto (install Server and client with auto start)
 - coreauto (install Server (autoStart) and client (manualStart))
 - hiddenmode (install Server (autoStart) hidden mode used)
 - removeall (remove all, include Archive and config files)
 - removeexe (remove program. Leave Archive and config files)
- activateOnline [Serial];[Serial];...
- activateRequest [Serial];[Serial];... (offline activation)
- activateResponse [ActivationData] (offline activation)
- showpassword (show current password and set enable network access)
- startdelay [seconds] (delay before starting in seconds)
- log (enable log for server events)
- lang [Language] (for English: en, for Russian: ru, etc.)
- clientIndex [ClientIndex] (client ID can contain only letters and numbers (no spaces, maximum 16 characters))
- individualsettings (store personal settings individually for each client)
- cloud (start Cloud server with auto restart on crashes)
- noguard (use this parameter with -cloud to run Cloud without restart guard)
- sampleconfig (use this parameter with -cloud to generate sample config in Cloud mode)
- nohup (ignore the HUP (hangup) signal)
- noscan (disable camera scanning)
- proxy [ProxyServerURL] (Set proxy server address)
- proxyclear (Remove stored proxy server address)
- noarchivedb (Disable archive database (search in archive will be not available).)
- activateRetranslator [Serial] (online activation of retranslator (separate Serials with ';'. For example: -activateRetranslator 'Serial1;Serial2'))

Here are some additional commands you could take advantage of:

-setpassword MYPASS (set MYPASS or another password for Administrator profile, the password that is used for remote access)

-serverport 777 (set 777 as Docokame@VSS port instead of the default 8090, can be any

number). for Linux: /etc/init.d/Docokame@VSSCoreService
for Mac:

/Library/LaunchDaemons/Docokame@VSSCoreSer

vice.plist for Windows: in the settings of services

(Administrative Tools) Edit it with admin rights. Restart the server part thereafter.

-noscan (cancel initial search for cameras). Attention: doesn't work for servers installed to autostart. See -serverport to learn how to

make it work.

For a detailed instruction on how to work with Docokame@VSS on Linux (with or without graphical shell), please see [this article](#).

Changing camera layouts via configuration file

Starting from Docokame@VSS 14.5.13, layouts can be controlled without the visual part via configuration file. For example, when integrated to your home automation system, it will help you choose camera layouts switch between live camera previews simply by pressing a button on a remote controller.

Changes should be applied to the **Preview configuration** file in Preview configuration folder in [Docokame@VSS's directory](#):

```
# Use PreviewMode variable for setting preview mode, TabNumber for setting tab number.
# PreviewMode possible values are:
# 0 for all cameras
# 1 for 1x1
# 2 for 2x1
# 3 for 2x2
# 4 for 3x2
# 5 for 3x3
# 6 for 4x3
# 7 for 4x4
# 8 for 5x4
# 9 for 5x5
# 10 for 8x8
```

```
PreviewMode=0
TabNumber=0
```

Replace 0 in **PreviewMode=0** with 1 to enable the 1x1 layout (one camera on screen at a time), with 2 to enable the 2x1 layout, etc. Replace 0 in **TabNumber=0** with the number of a tab you'd like to open. Please note: Docokame@VSS should be launched and working when you apply those changes.

Troubleshooting

1. Error **cannot execute binary file** (at launch)

If you're getting an error message as follows:

```
root@myUser:/home/myFolder# uname -a
Linux myUser 2.7.32-504.el6.i686 #1 SMP Wed Oct 15 03:02:07 UTC 2014 i686 i686 i386 GNU/Linux
root@myUser:/home/myFolder# ./Docokame@VSS.app
bash: ./Docokame@VSS.app: cannot execute binary file
```

Please make sure that you are launching 32 bit Docokame@VSS on 32 bit Linux, or 64 bit Docokame@VSS on 64 bit Linux. Installing ia32-libs might help, or simply use Docokame@VSS of bit capacity that matches your OS's bit capacity.

Another reason for this error might be insufficient rights. In such case please try to execute `chmod 777 Docokame@VSS.app` in the folder where your Docokame@VSS.app is, and then launch Docokame@VSS server again (Docokame@VSS.app -core).

2. Error **"Access denied"** (at launch)

If you're getting an error message as follows:

```
bash: ./Docokame@VSS.app: Access denied
```

This error can occur if you're trying to launch Docokame@VSS on a USB stick or a disc mounted into the system with a noexec parameter. We recommend to try to launch Docokame@VSS on a system disc or disable execution restrictions.

3. Error **Fail** (at installation)

If you're getting the error as follows during installation

```
[root@myUser ~]# ./Docokame@VSS.app -install -coreauto
```

```
install server (auto start) and client (manual start) ... * Ok > installFiles
```

```
* Ok > popClientFromAutorun
```

```
**
```

```
*** Fail > installCoreShortcut
```

```
* Ok > removeExeOnly
```

```
* Ok > unRegisterInSystem
```

```
* Ok > revertOldDocokame@VSSVersion
```

```
**
```

```
*** Fail > installCoreAutostartOnly
```

```
Fail
```

please install the **xdg-user-dirs** package and run installation again.

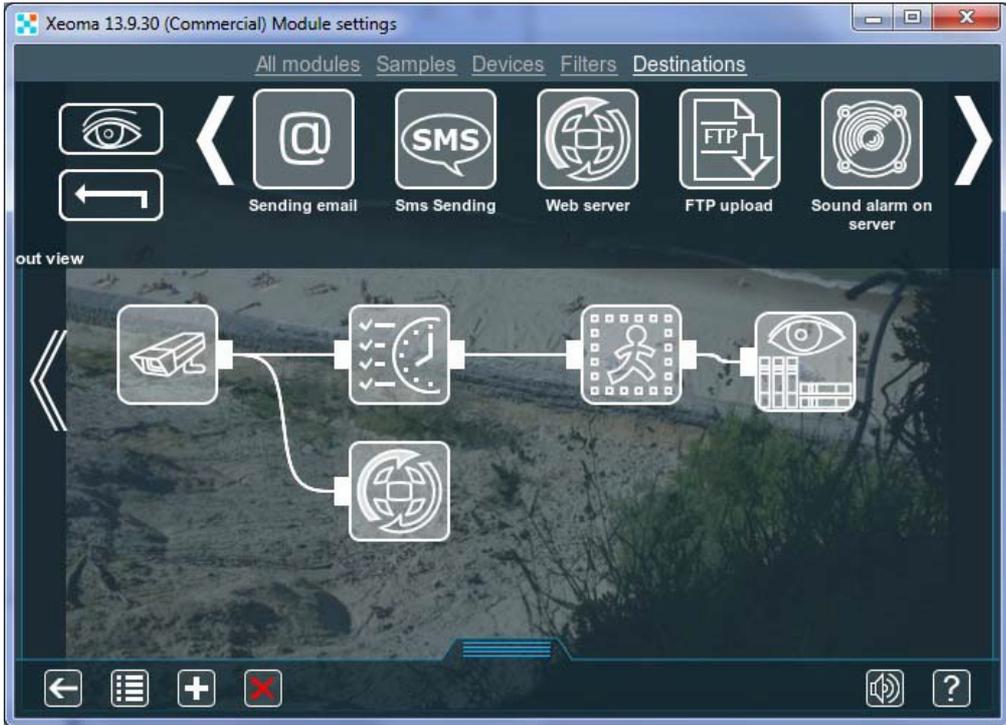
If none of this helps, please [contact our technical support](#) with the description of the issue.

[Web server customization for online view of cameras in Docokame@VSS](#)

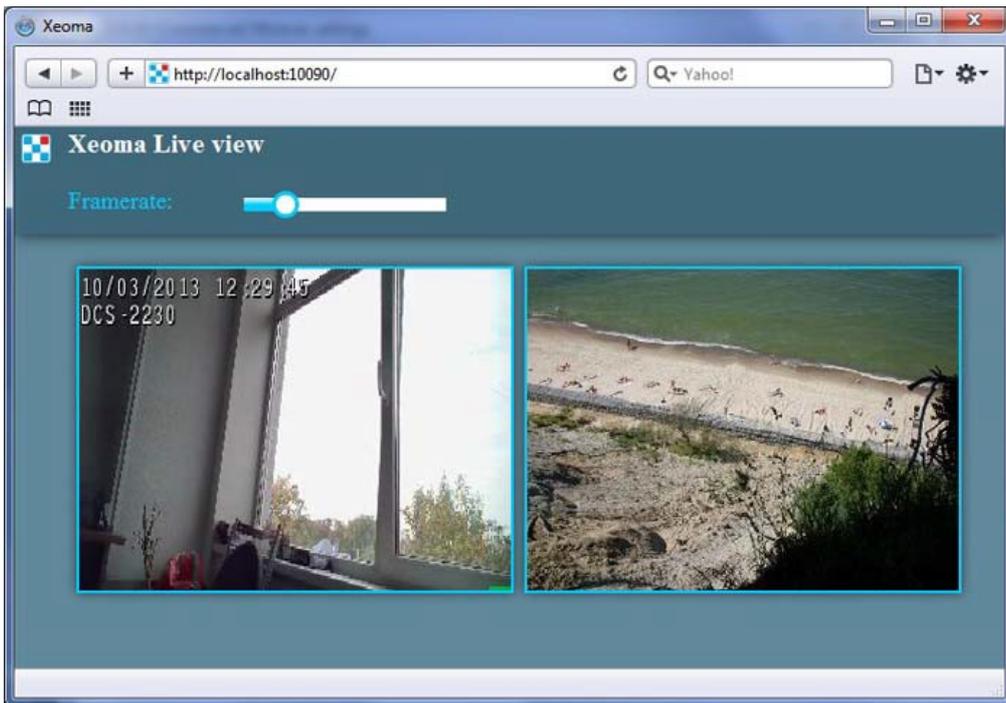
look the way you want.

To do that, you will need to the following:

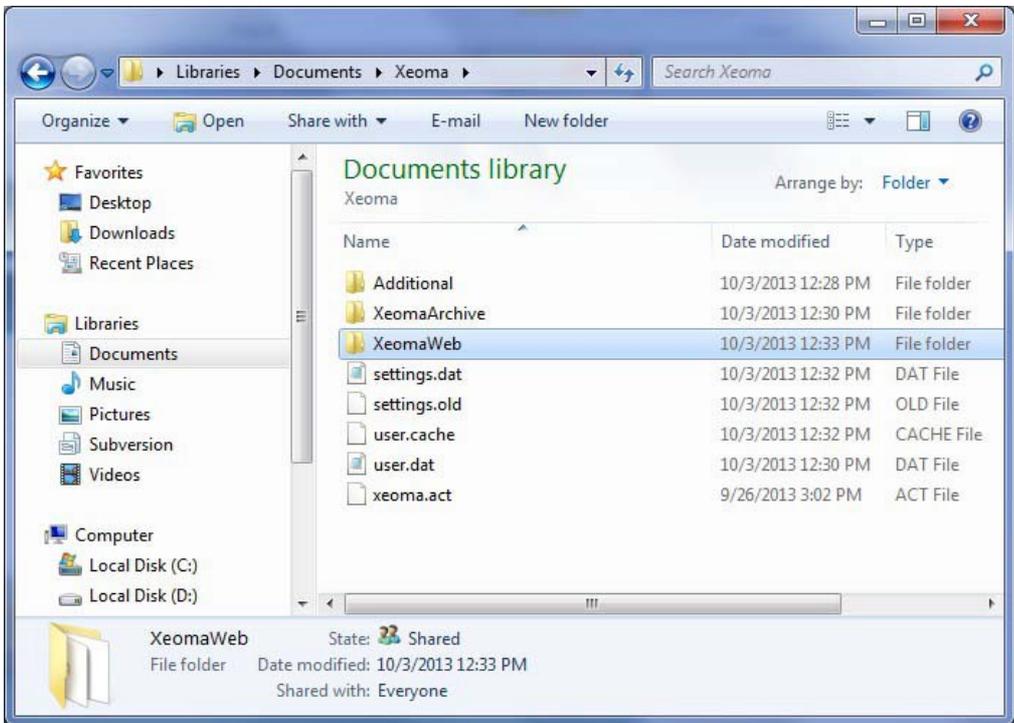
Connect Web server module to the cameras you'd like to view in web server.



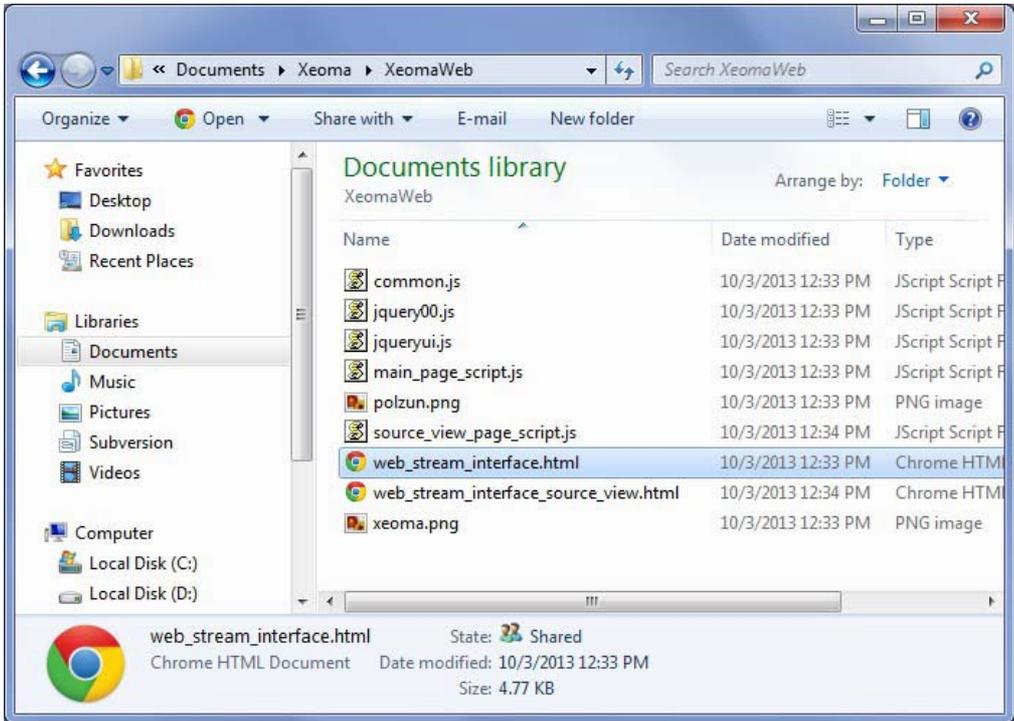
Enter the Web server module settings and visit the pages in a browser that you'd like to customize.



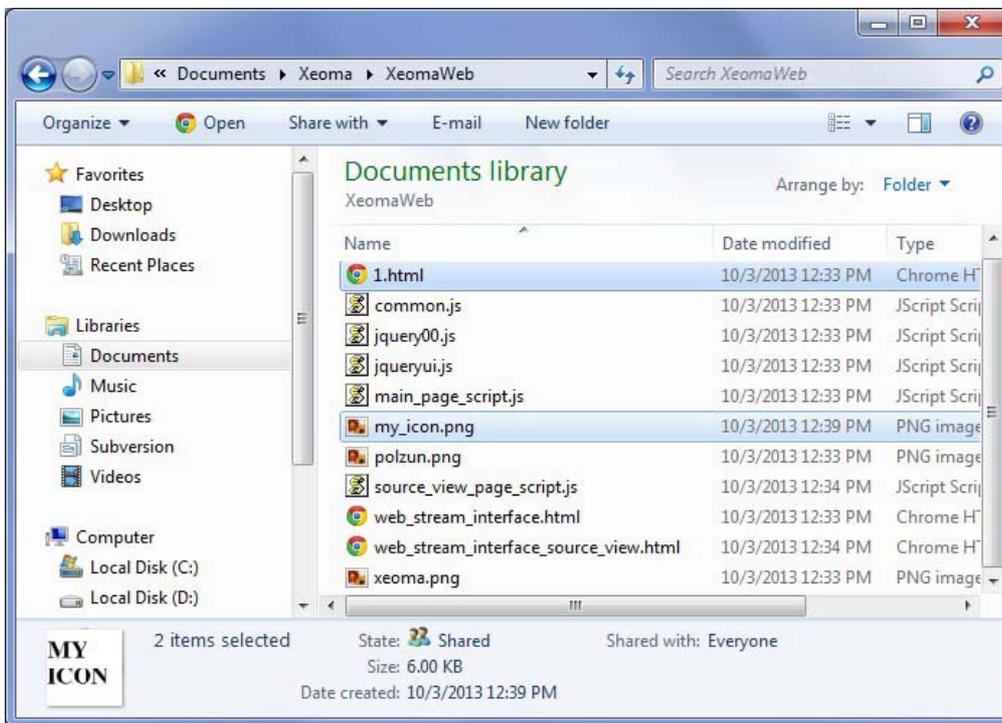
In Docokame@VSS directory a Docokame@VSSWeb folder will appear:



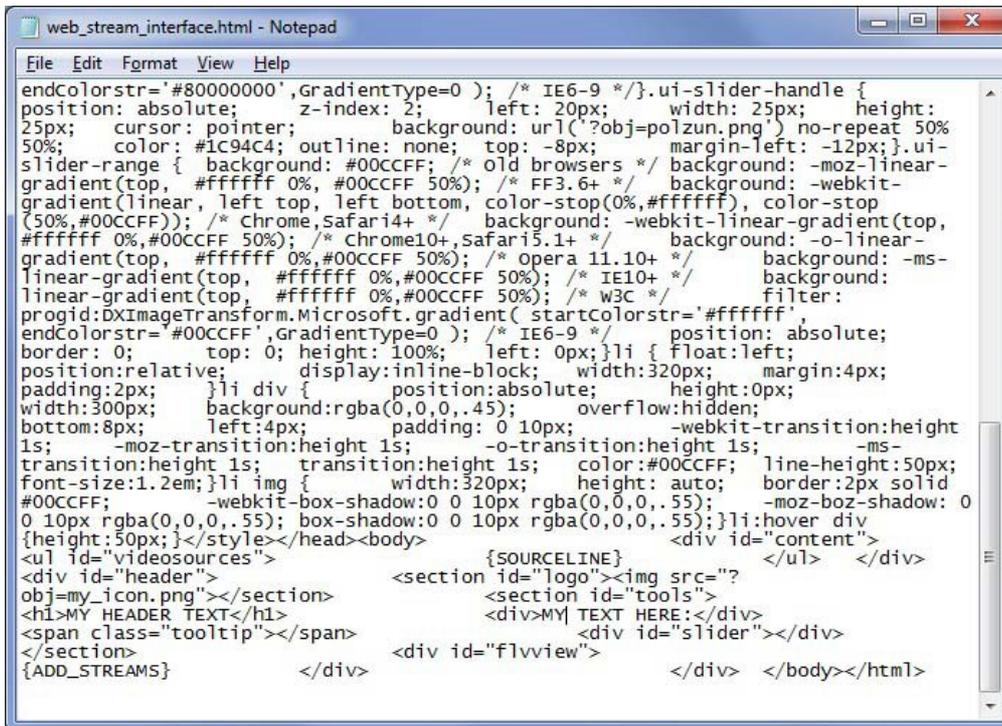
In Docokame@VSSWeb folder you will see the needed html pages.



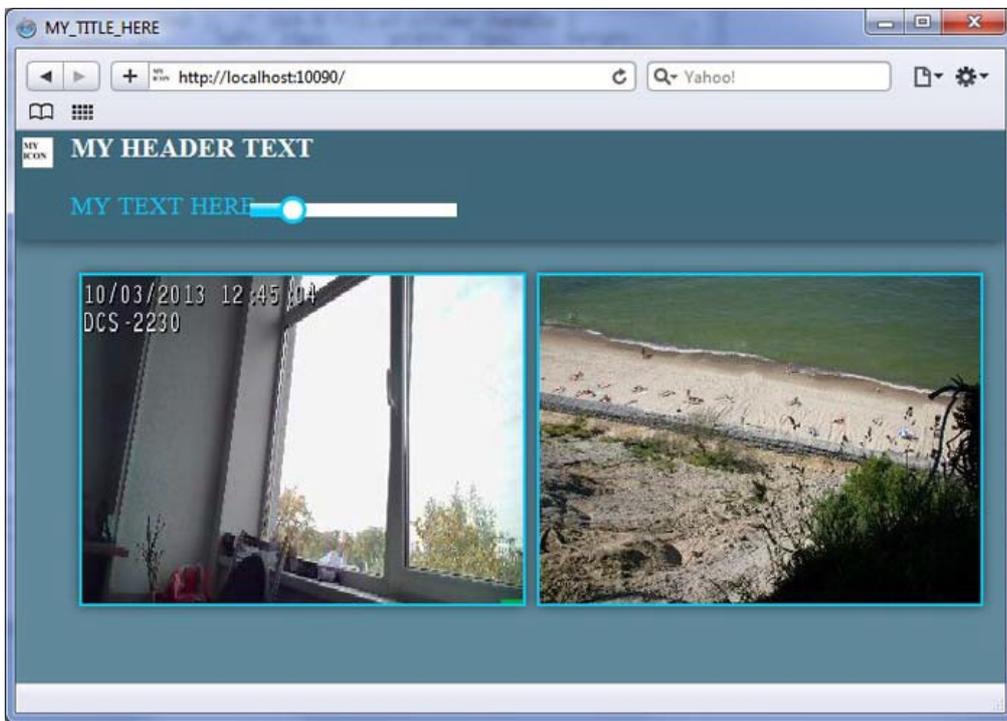
This is where you need to place all resources you are going to use (icons, pictures, other pages). To access the graphic files, you will need to use a path like `img src=""?obj=PictureName.png"`.



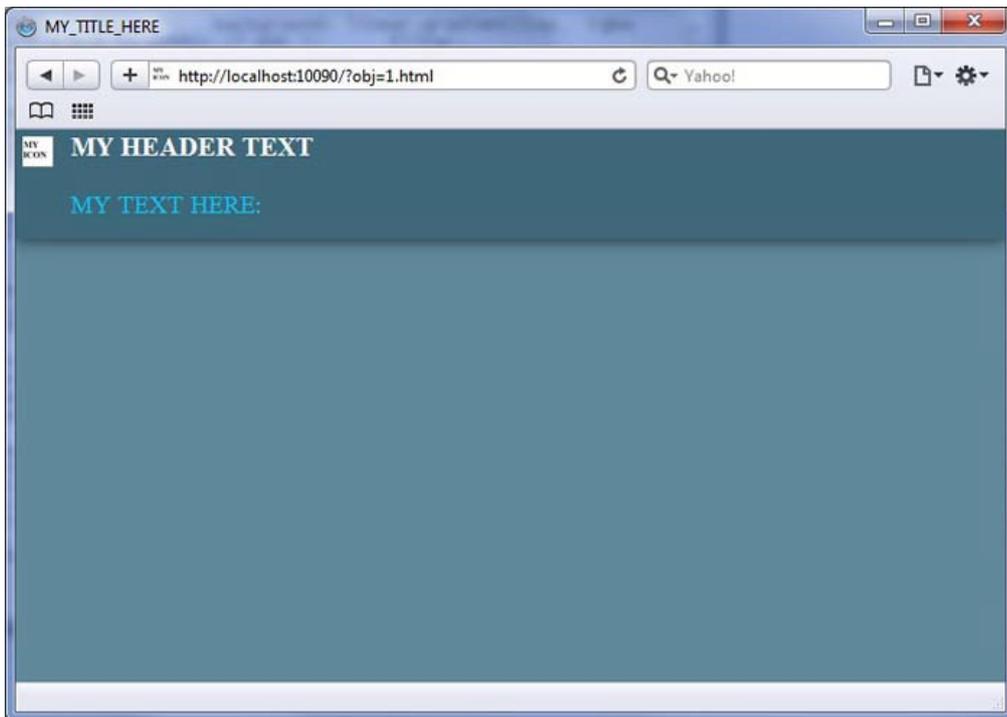
Open and edit the needed html pages (even Notepad will do).



Here is an example of a customized page: changed are the title of the page, browser icon, and the contents of the page.



You can also access other pages from the directory:



Docokame@VSS settings

Sometimes, like in [this case](#), you need to find where Docokame@VSS stores its settings files. Docokame@VSS settings are stored in default user directory.

For Windows it's:

C:\Users\Public\Documents\Docokame@VSS\ (either if Docokame@VSS is installed or not installed)

For Linux:

/home/USERNAME/.config/Docokame@VSS/ (not installed)

/usr/local/Docokame@VSS/ (installed)

For Mac OS X:

Users/USERNAME/Docokame@VSS/ (not

installed) Users/Shared/Docokame@VSS/

(installed)

Please be careful: deleting settings files will erase all settings changes you applied, passwords, etc.

Change camera order

To change camera order on the MainScreen (Real Time View Window), just drag cameras one by one to a new place.



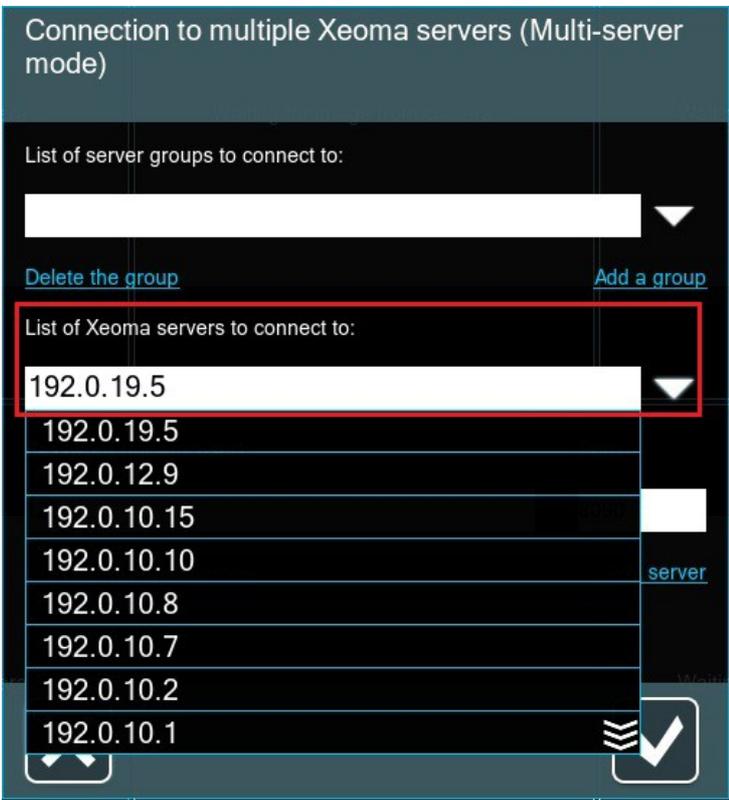
Multi-server mode

Multi-server mode is very useful for the control of large holdings with offices in different cities around the world and a multi-level control system. In such systems, servers might be located in different locations geographically, and even in different cities. With Docokame@VSS's Multi-server mode you can connect to all of them at a time and/or switch between the offices to get the full insight and raise the efficiency of monitoring. Simply add all servers you'd like to connect to to the list in **Main menu -> Remote access -> Multi-server mode**.

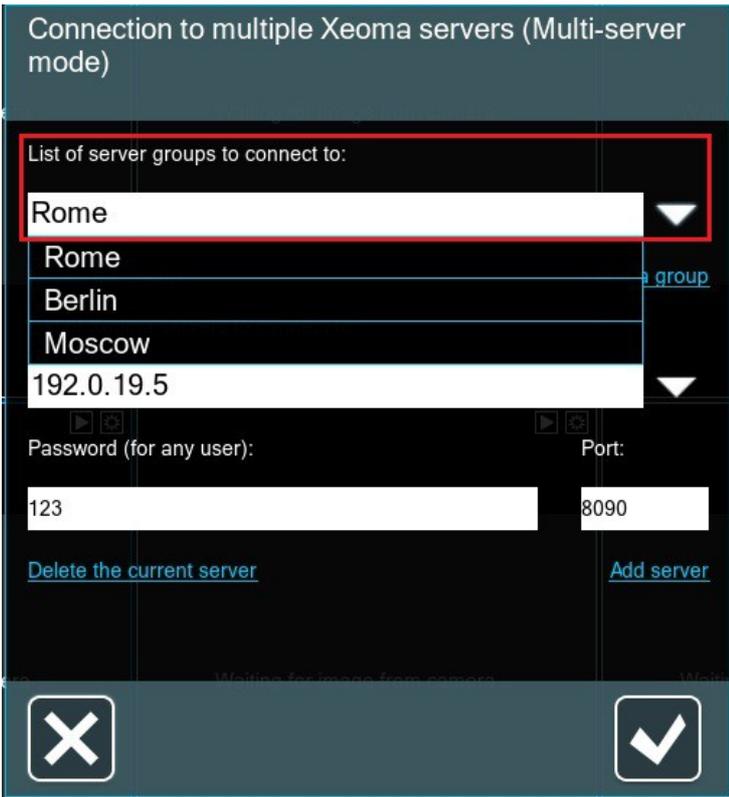
If, for example, you need to view cameras from several servers at a time, then view cameras from several other servers, and then reconnect to the first group of servers, you can use grouping in Multi-server mode for quick access to this or that group of servers. This configuration can be done in two ways.

Method #1

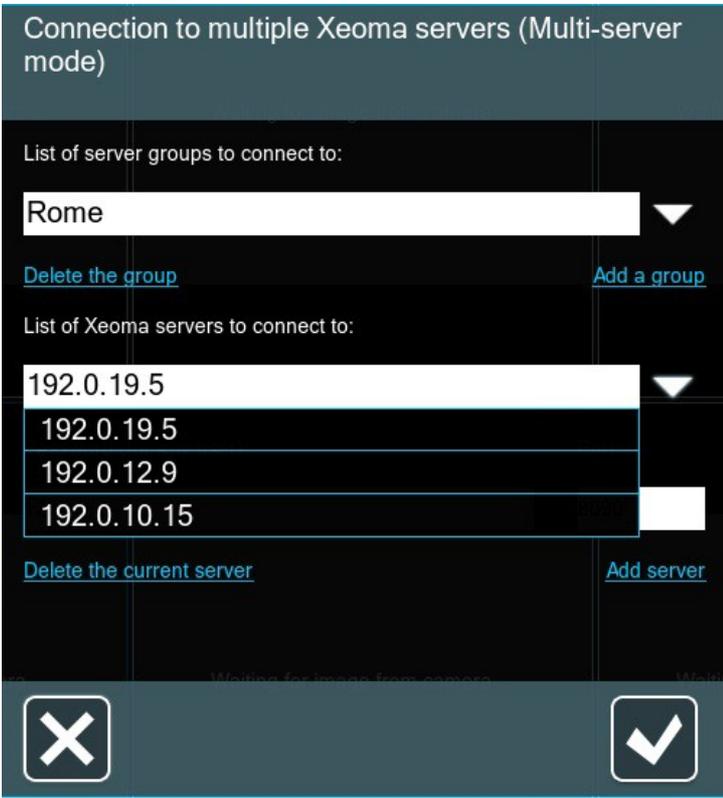
Add **all** servers you'd need to connect at various times. To do this, enter the servers' IP address, port and password in the field "List of Docokame@VSS servers to connect to", and then click "Add server".



Then, when all servers are added, add the names of the groups. Enter a new name in the "List of **server groups** to connect to" instead of the name that is already there, and click "Add group".

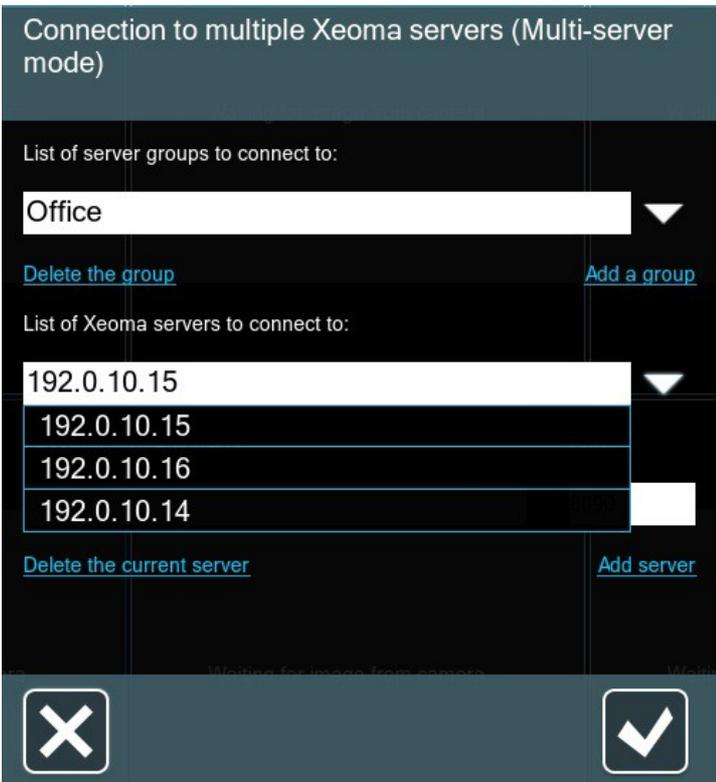


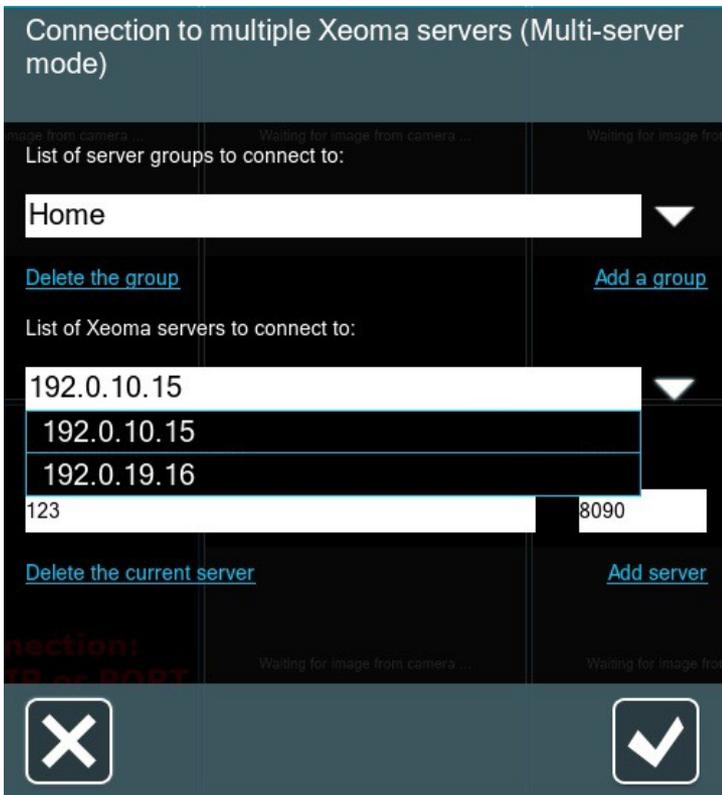
Now when you have added all the servers and groups, we turn to fine-tuning the groups. Open a group, and remove unnecessary servers, that you will not need this group to connect to, from the list (it does not affect the server lists for other groups). Do the same for other groups, leaving only those servers inside a group that you'd want to connect to when you select this group.



Method #2

It is suitable for those who have just a few servers and only several groups to connect. You can add the name of the group and immediately add all the needed servers to it.





Repeater

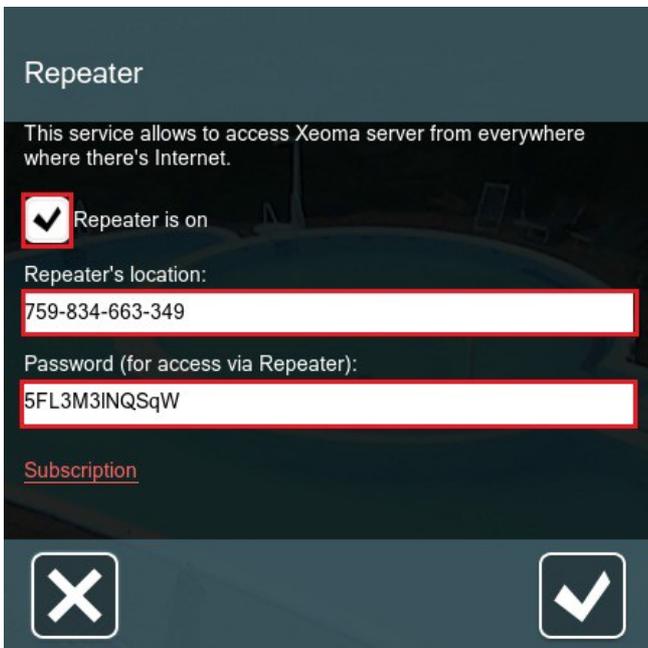
If you don't have the static IP address, you can use the 'Repeater' function. Using this type of connection you will be able to view cameras and archive, change settings.

The 'Repeater' function is available 10 min per day for free. You [can buy](#) monthly or yearly subscription.

You also need to install Docokame@VSS on the PC #1 (server).

Then you should go Main menu -> Remote access -> Repeater setup

Address and password for 'Repeater' will be generated automatically. Please make sure the box 'Repeater is on' is checked.



Write down the repeater's address and password.

On PC #2 run Docokame@VSS and go to Main menu -> Remote access ->

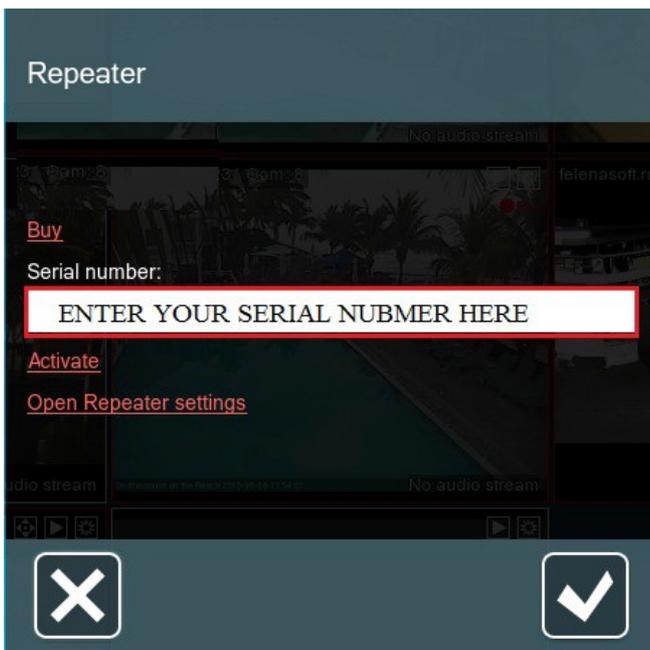
Connect to Type the password and address.



You can also [watch the videotutorial](#) on how to work with the 'Repeater'.

How to activate the Repeater?

To activate the Repeater license choose the "Subscription" option, enter your serial number and click "Activate" button.

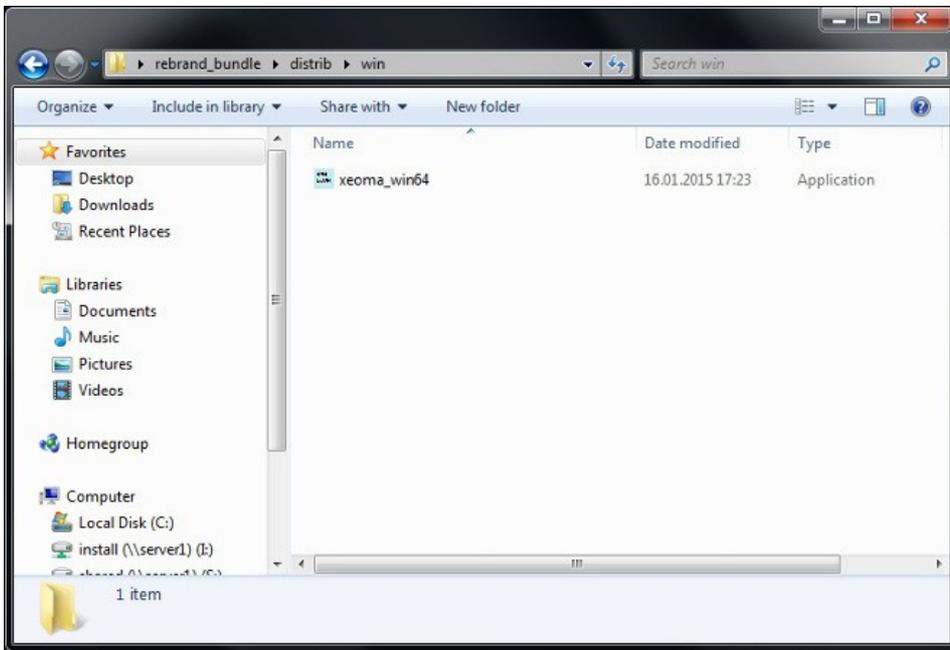


1. The **oem_info.xml** file in the **custom** folder is where you can change the program's name, add information and contacts of your company, hide or show some menus, make Docokame@VSS run as client only, and so on. You can open and edit it in a text editor. Then save the changes.

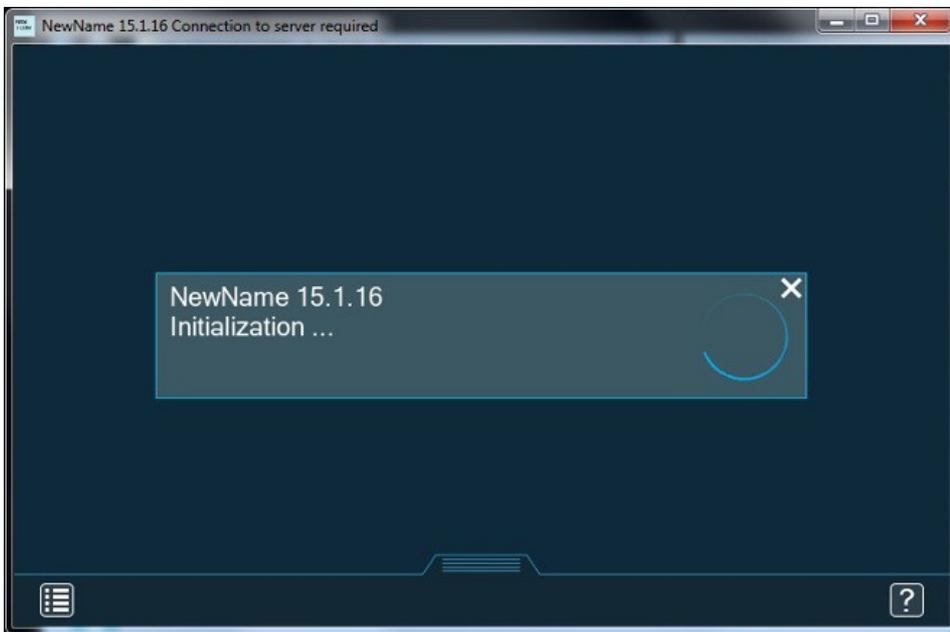
2. You can change background color, modules icons, add splash screen in the **skin.xml** text file in the **custom** folder. You can open and edit it in a text editor. Then save the changes.

3. After you've prepared everything, run the **customize.bat** file. A console will be shown:

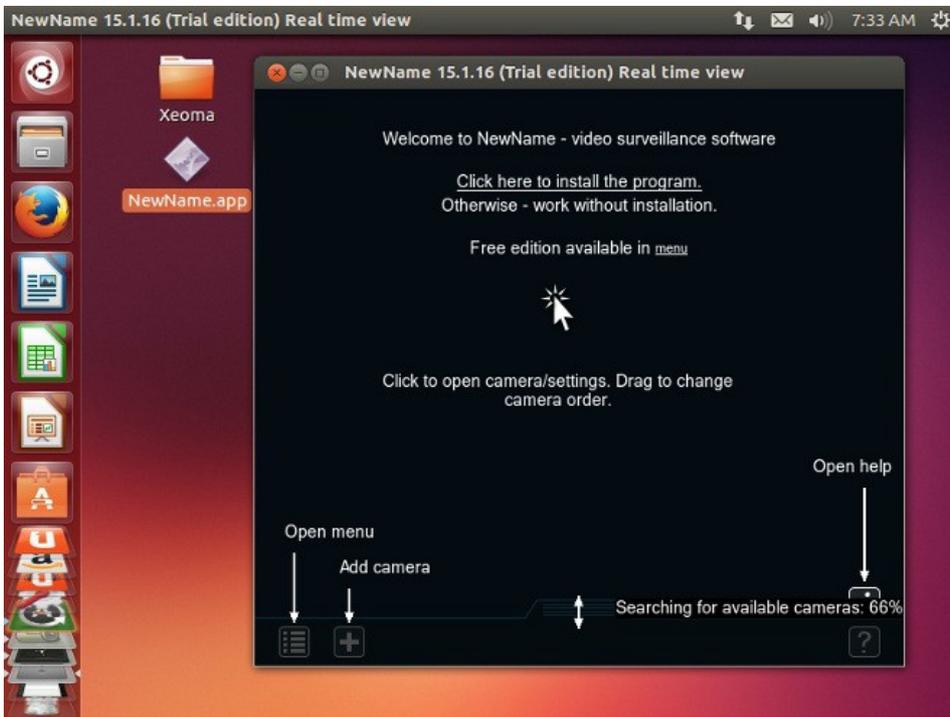
4. After the console closes and there's a message about successful customization in the log, you can find the customized new program based on Docokame@VSS in the distrib folder:



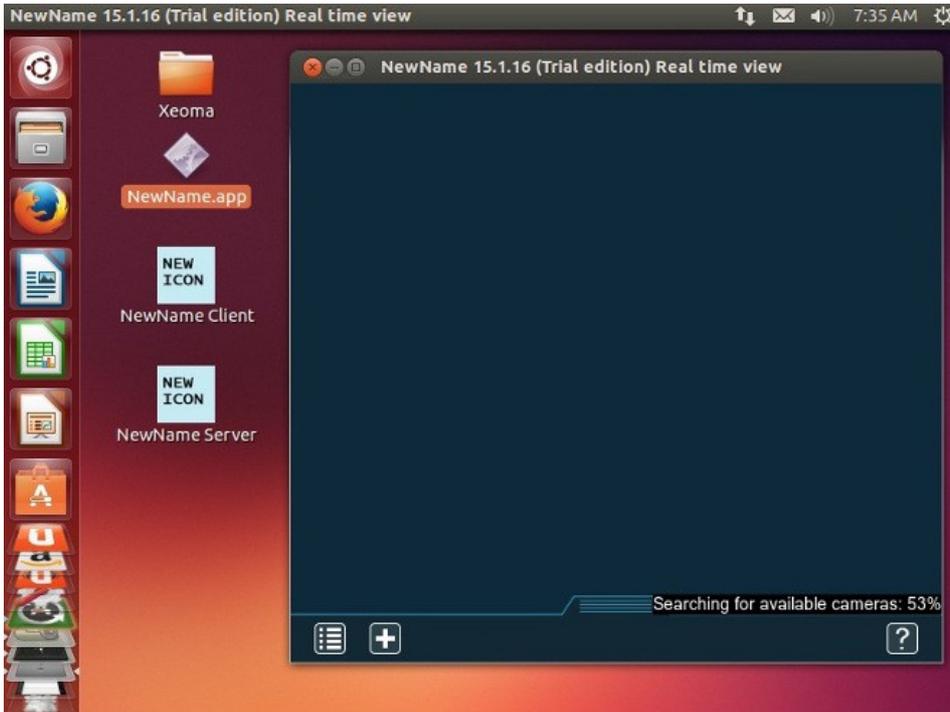
5. Run the new program. In our example, we change the program's name and logo.



6. If Docokame@VSS was not launched or activated on this computer before, customized version will look like this:



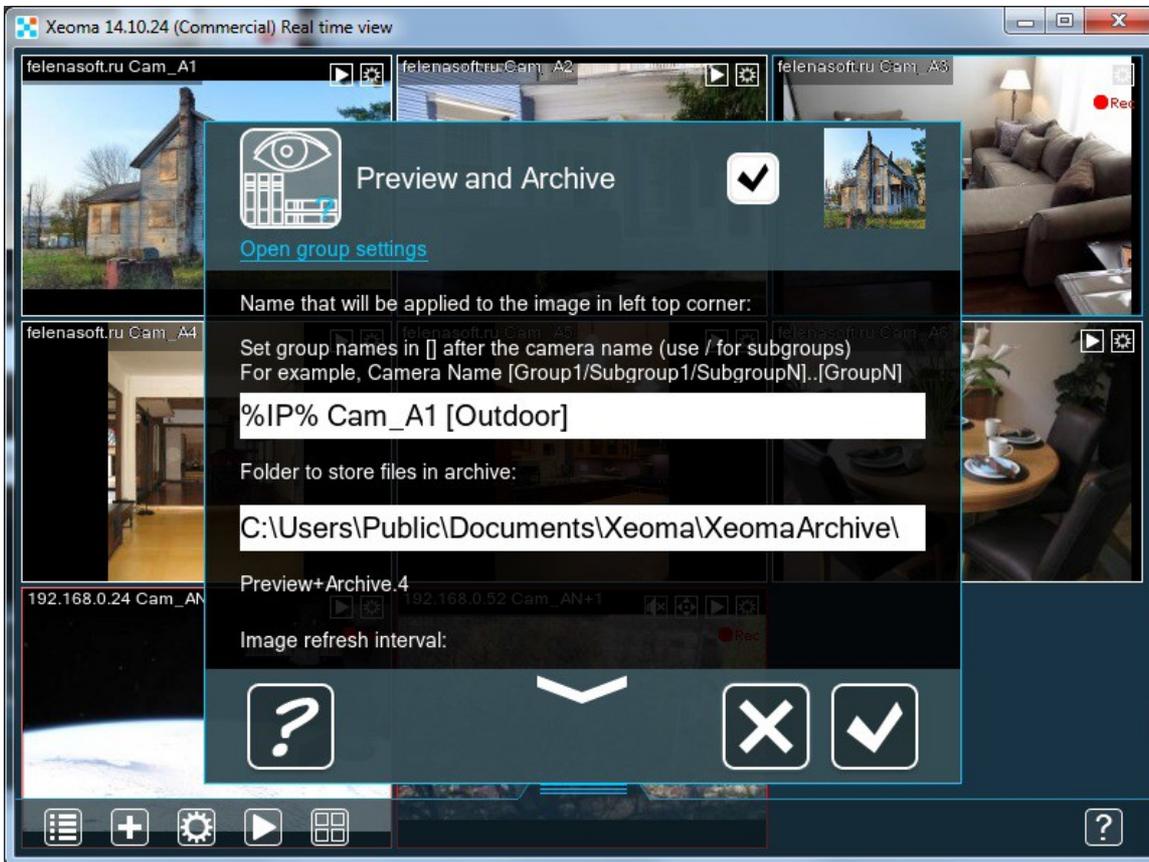
7. If you install your customized Docokame@VSS with a new logo via Main menu > Install > Install, you will get the shortcuts with the new logo as well (except for if you tick the Hidden mode installation, in which case no shortcuts are created at all):



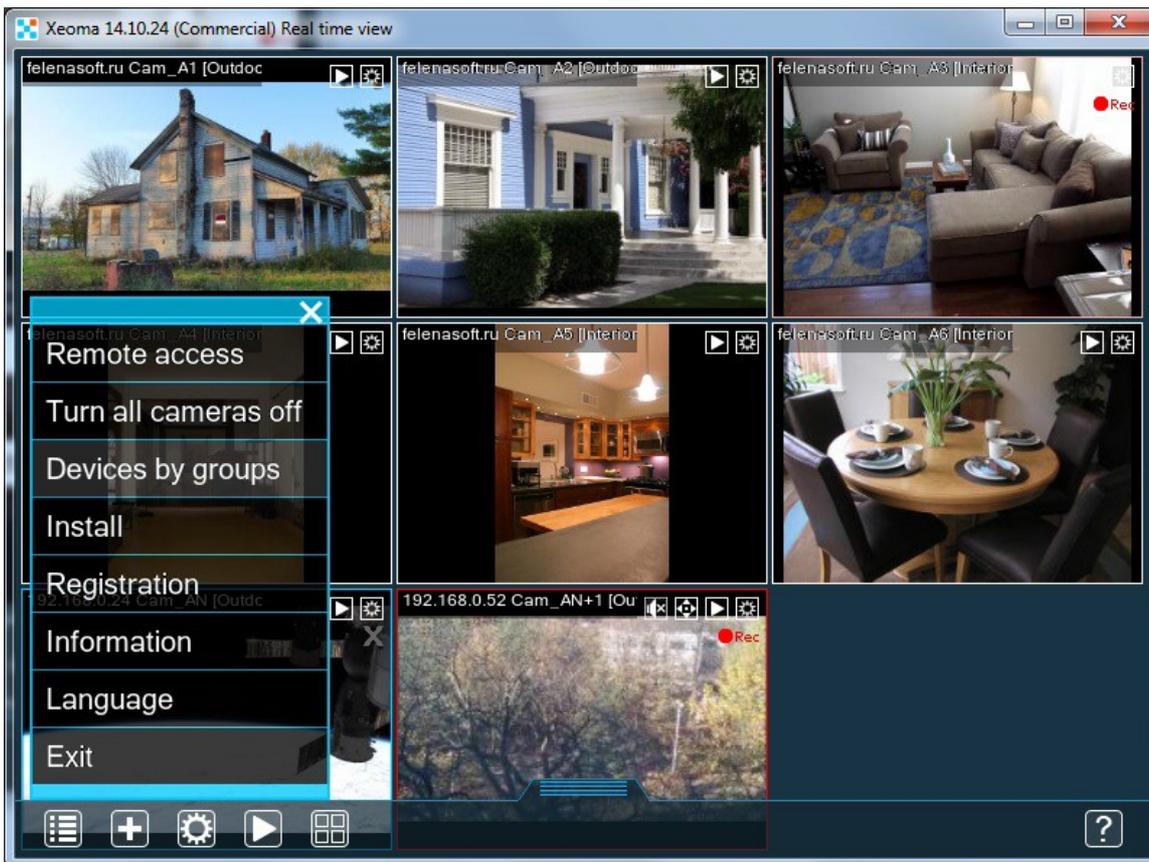
Device List (devices by groups)

Handy when working with many cams. Quick jump to the selected cam. Cameras grouped.

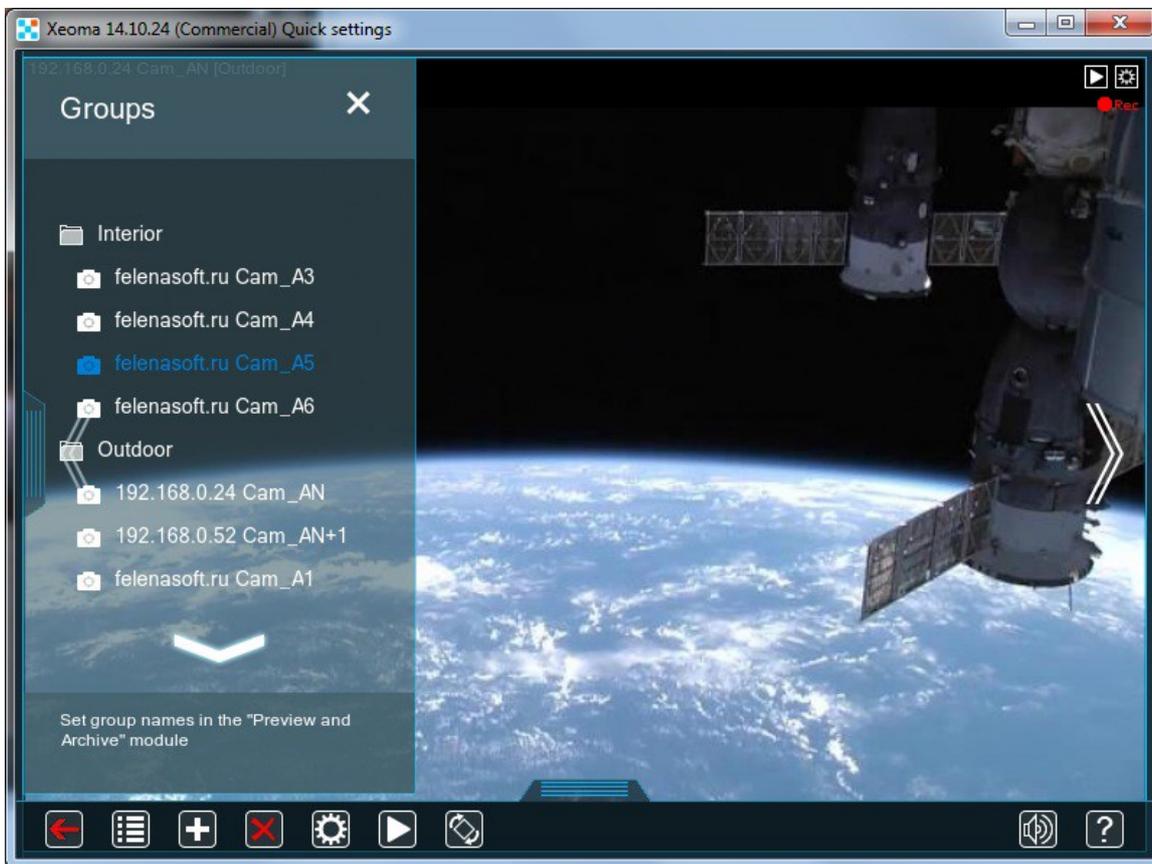
After your cameras are set up and laid out on the preview, you can change camera's name and specify what group it should belong to. Put it in square brackets:



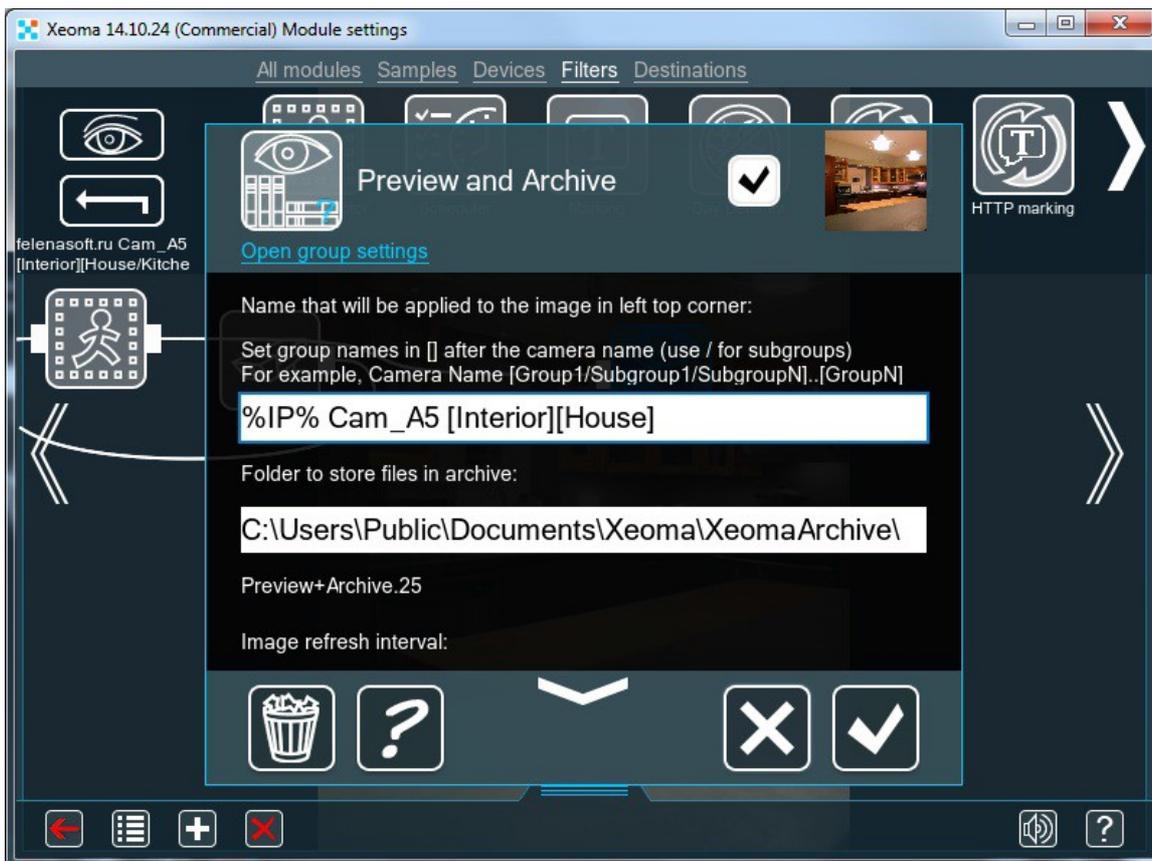
Then, turn on the DeviceList in main menu by selecting the 'Devices by groups' option:



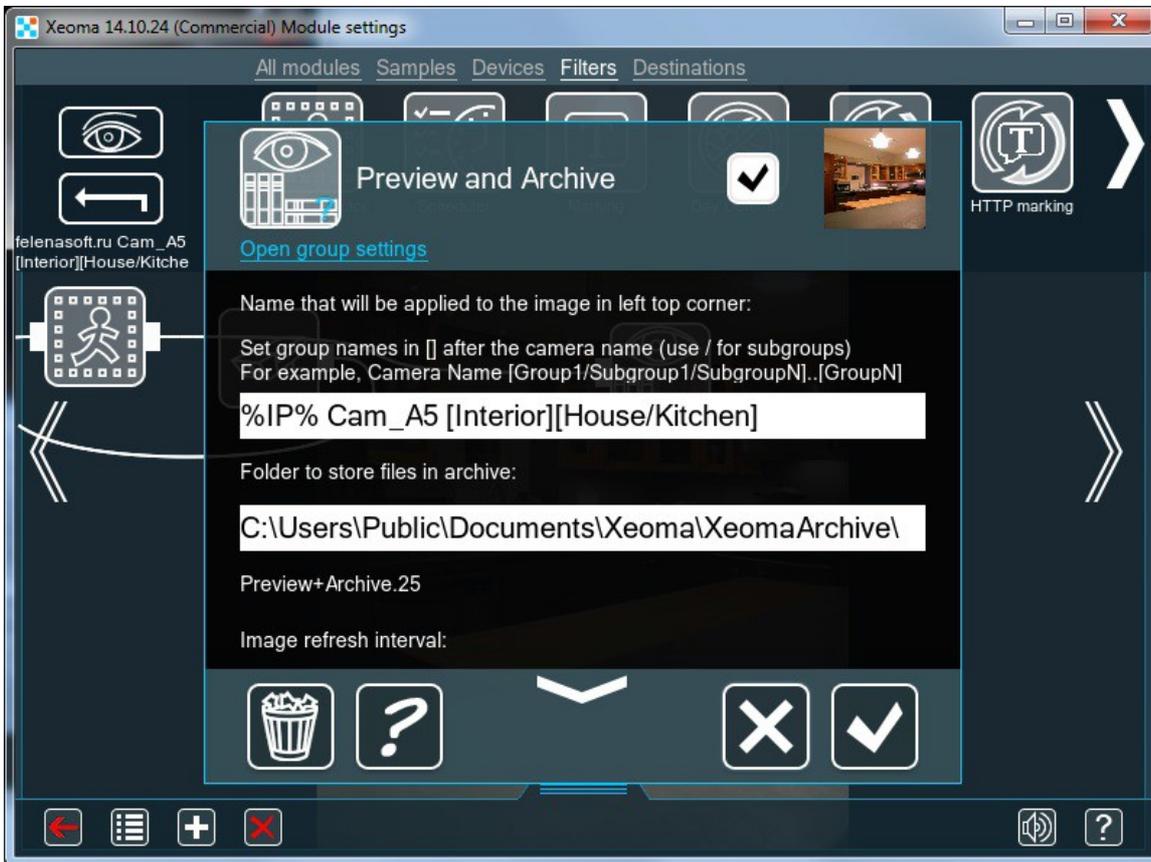
The panel will be opened on the left side. It can be dragged horizontally. When you click on a camera in the list, it will be opened. In the example, we divided all cameras into 2 groups - 'Outside' and 'Interior'.



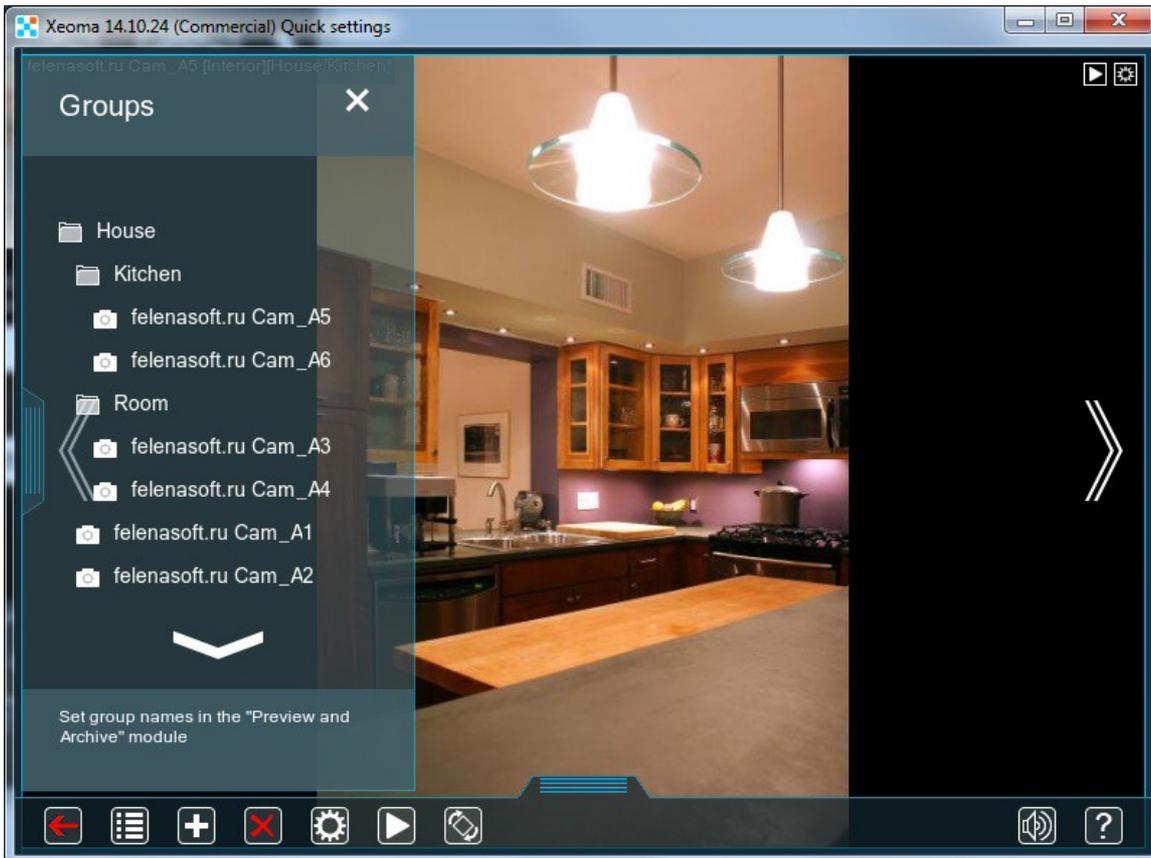
The same camera can be added to several groups. To set it, type the names of the groups the cam should belong to, in square brackets, one after another.



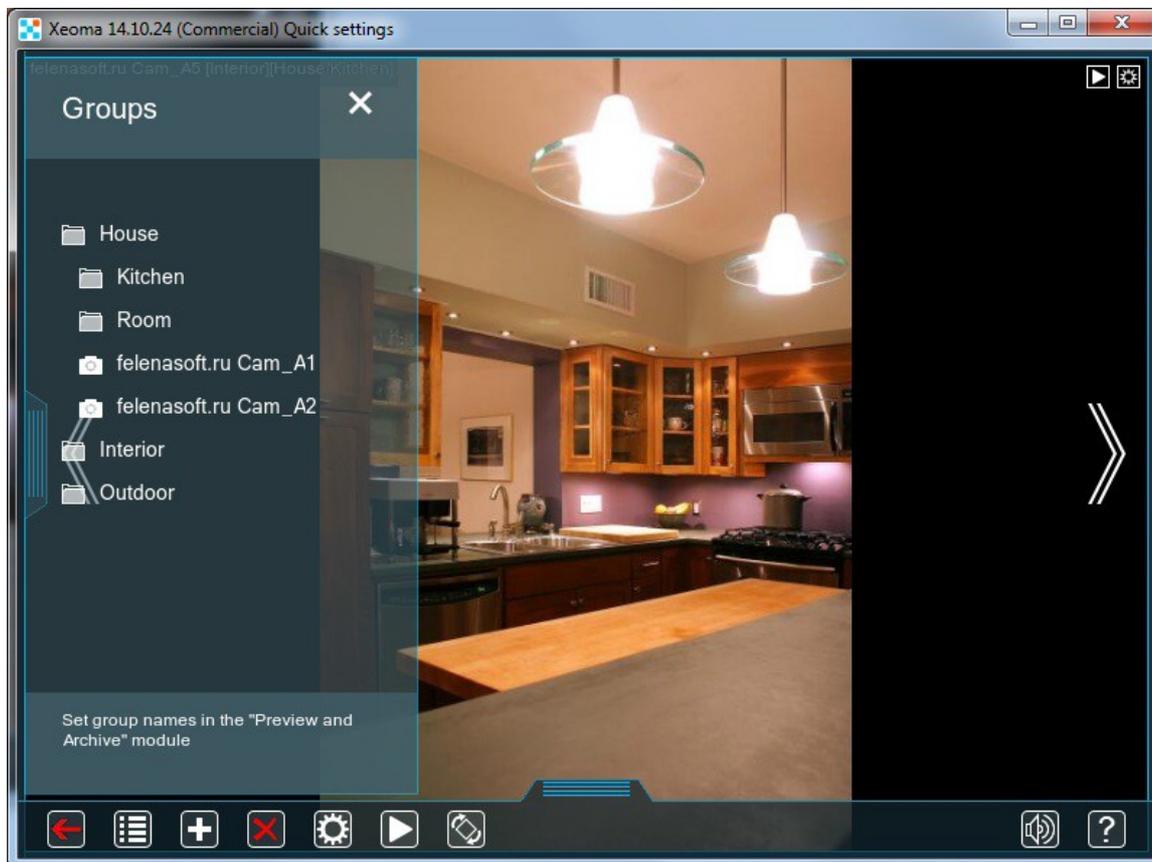
You can also put the camera into a subgroup. Use / to create a subgroup inside a group:



'House' is a group. 'Kitchen' and 'Room' are subgroups. Below are 2 cameras that belong to the 'House' group but not to any of the subgroups:



By clicking on a Group/Subgroup name you can expand or, if was already expanded, collapse the list of cameras that belong there:



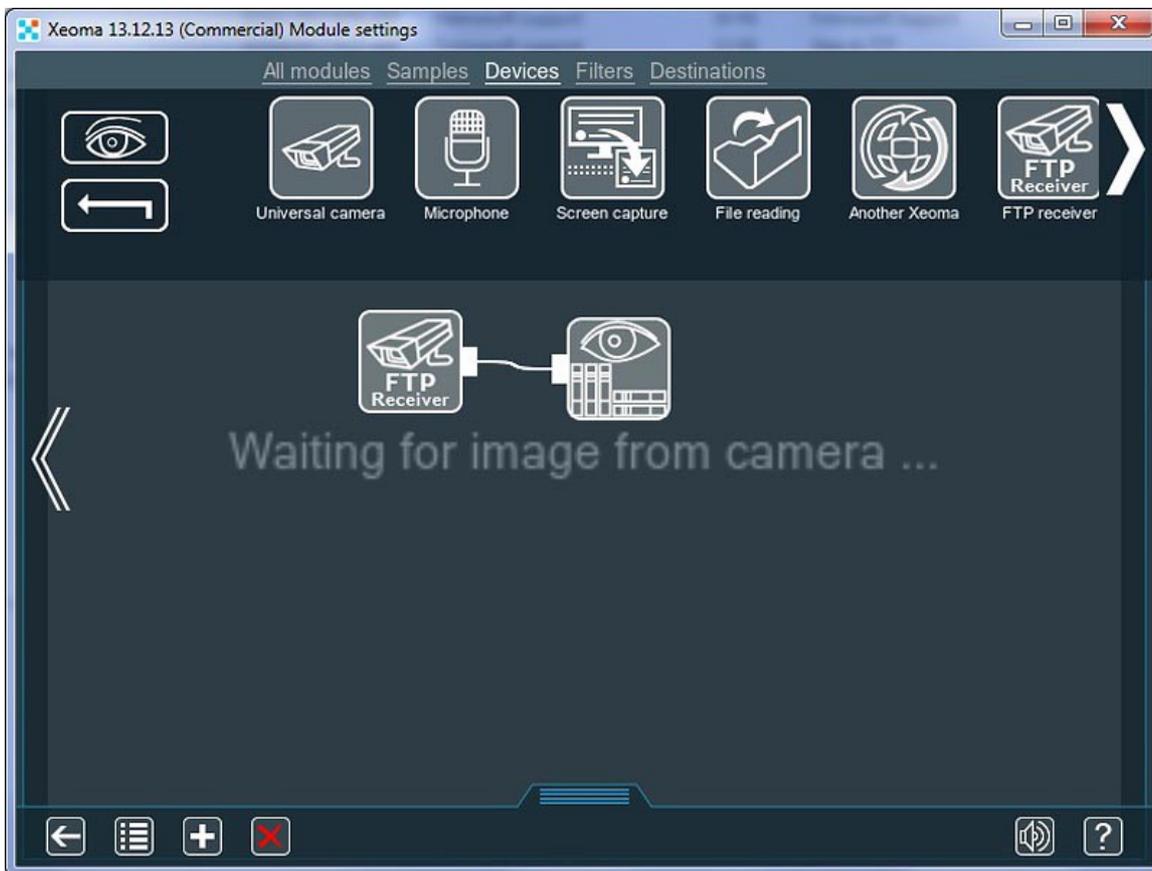
To close the Device List, click on the x button in the right upper corner.

[FTP-receiver: easier way to connect your camera](#)

You can make your camera stream image to the server via FTP. It's convenient when you don't want or cannot perform port-forwarding on your router at the place where camera is located, or when there's no IP address that can be assigned to the camera (like when the camera is connected via the mobile Internet) thus no program can find it.

First of all, naturally, your camera must have support for this feature. There are just too many manufacturers today for us to be able to tell if your camera has it or not so please refer to the camera's documentation in case of doubt.

First step is adding a scheme with FTP receiver as a source module in your Docokame@VSS.



There will be no image yet, but there will be settings that you need to use in camera FTP streaming setup like port (changeable), user name, password and server address (not changeable). You will need this data later on. Tip: if you need to change the password, remove this FTP receiver module and add another - new password will be generated for the new FTP receiver module.



Next step is to go to the camera settings and on to the FTP streaming settings. You should look for tabs like "Event Setup", "FTP" or the like.

D-LINK CORPORATION | INTERNET CAMERA | SETUP

Product: DCS-2230 Firmware Version : 1.20

D-Link

DCS-2230 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard
Network Setup
Wireless Setup
Dynamic DNS
Image Setup
Audio and Video
Preset
Time and Date
Event Setup
SD Card
Logout

EVENT SETUP

There are four sections in Event Setup page. They are event, server, media and recording. Click Add to pop a window to add a new item of event, server, media or recording. Click Delete to delete the selected item from event, server, media or recording. Click on the item name to pop a window to edit it. There can be at most 3 events and 2 recording. There can be at most 5 server and 5 media configurations.

SERVER

Name	Type	Address/Location
name1	Ftp	192.168.0.51

MEDIA

Name	Type	Source
media1	Snapshot	Profile 1

EVENT

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Trigger
event1	ON	V	V	V	V	V	V	V	00:00~23:59	Motion

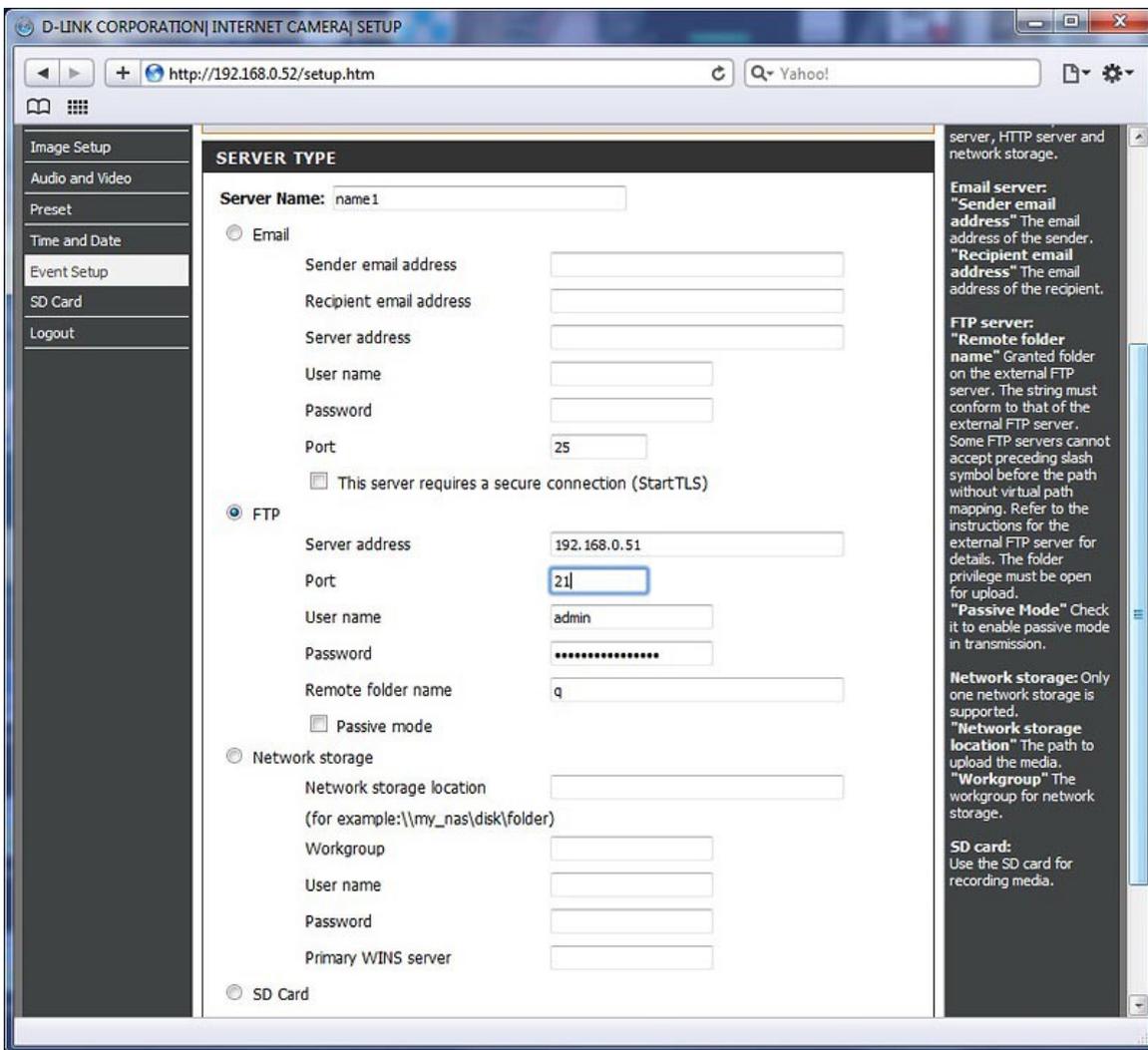
RECORDING

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Source	Destination
<input type="button" value="Add"/>	<input type="button" value=""/>										

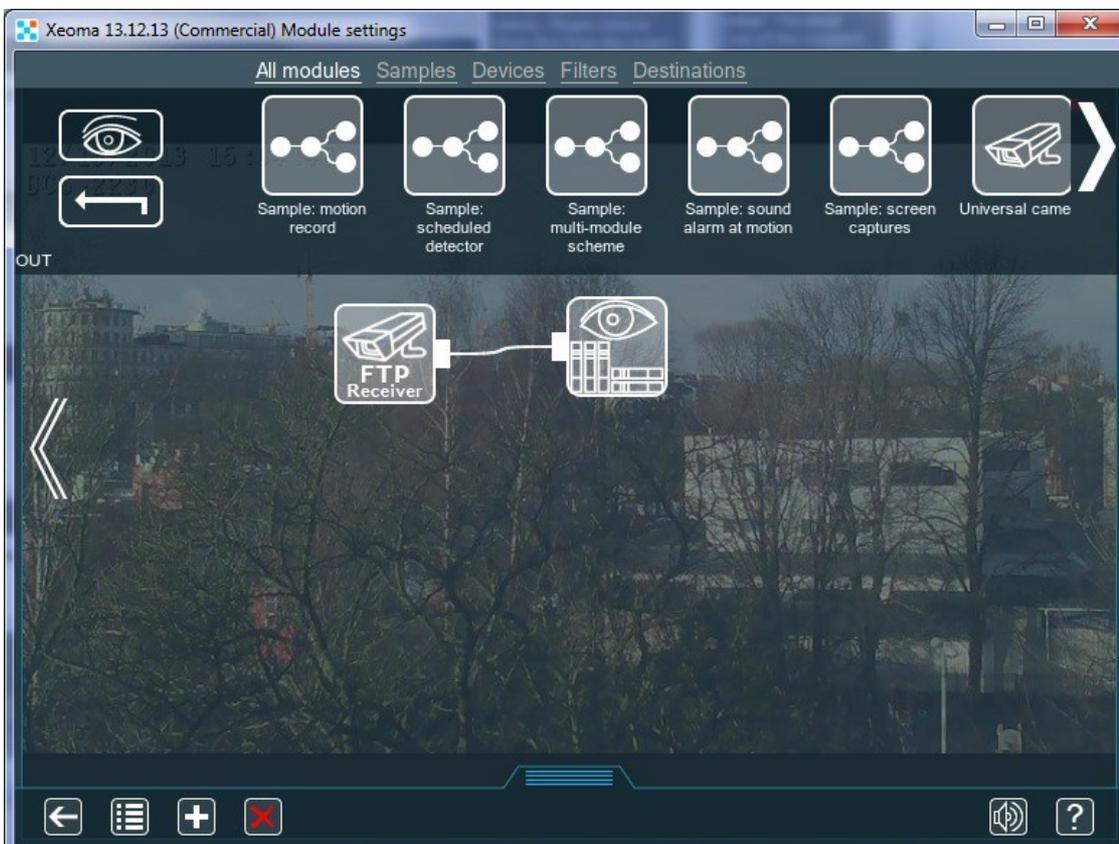
Helpful Hints..

Suggest setting server and media first before setting event. The servers and media which selected in event list are not be able to modify or delete. Please remove them first from the event if you want to delete or modify them. Recommend using different media in different event to make use all media be produced and received correctly. If using the same media in different events and the events trigger almost simultaneously, the servers in the second triggered event will not receive any media; there would be only notifications.

In this configuration page you need to enter FTP receiver's data: IP address (host) where Docokame@VSS with FTP receiver are, port, username, password. Folder or Directory Path can be of any name, however some restrictions may prohibit use of special signs, so we'd recommend to keep it simple.



If all is correctly set up, the FTP receiver will start showing picture from the camera.



Dual streaming with rtsp (h264) cameras

If yours are h264 (rtsp) cameras and you would like to reduce CPU load, you are welcome to try Docokame@VSS's new option to store high resolution video streams directly into archive, without re-decoding the streams.

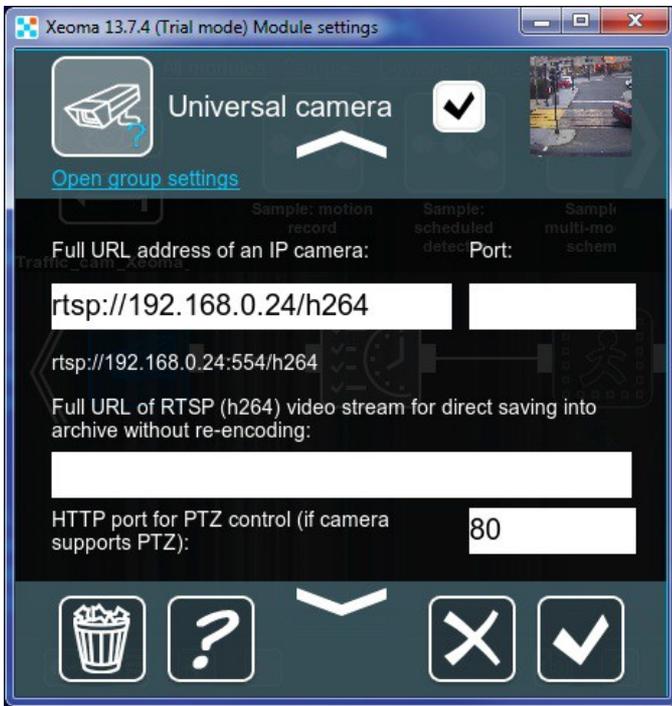
If you are using h264 (rtsp) cameras, you might well be receiving many Mpix image from your camera and seeing it in the preview window. But as often as not, the priority is not the ability to view cameras real-time but to store high quality into the archive:



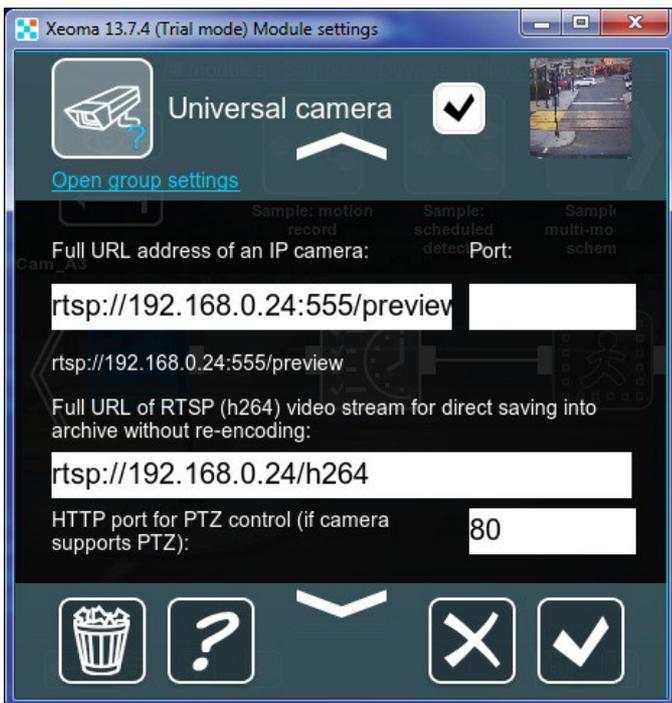
If the machine is slow or you have many high resolution rtsp cameras, it may cause intense CPU load resulting in image distortions:



In both these cases we recommend to try the direct storing into archive without re-decoding. To do that, please go to the camera's settings in Docokame@VSS. You will see there that the regular URL to work with the camera is given in "Full URL for IP camera" field:



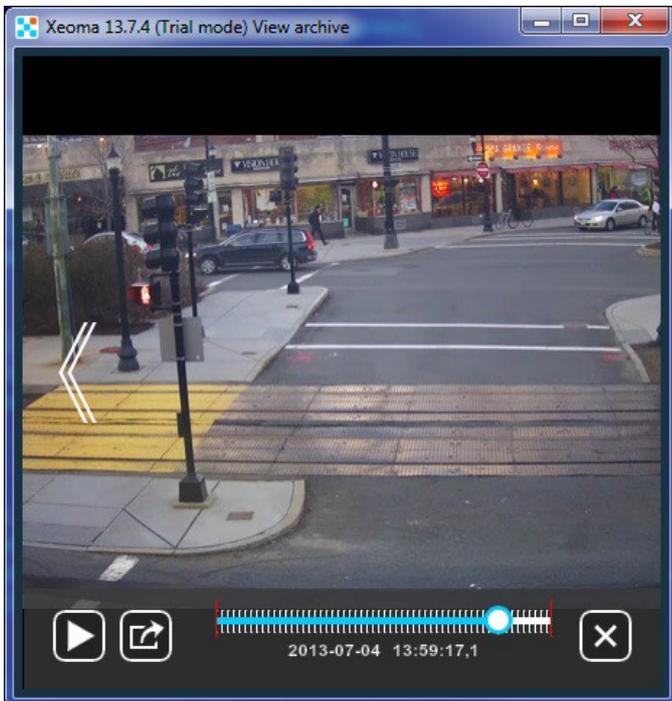
To establish direct saving into archive, paste the URL for hires RTSP (h264) stream into "Full URL address of the RTSP (h264) video stream..." field. In regular "Full URL address for IP camera" you can specify a jpeg/mjpeg/rtsp URL for lower quality stream (for preview and detectors' work):



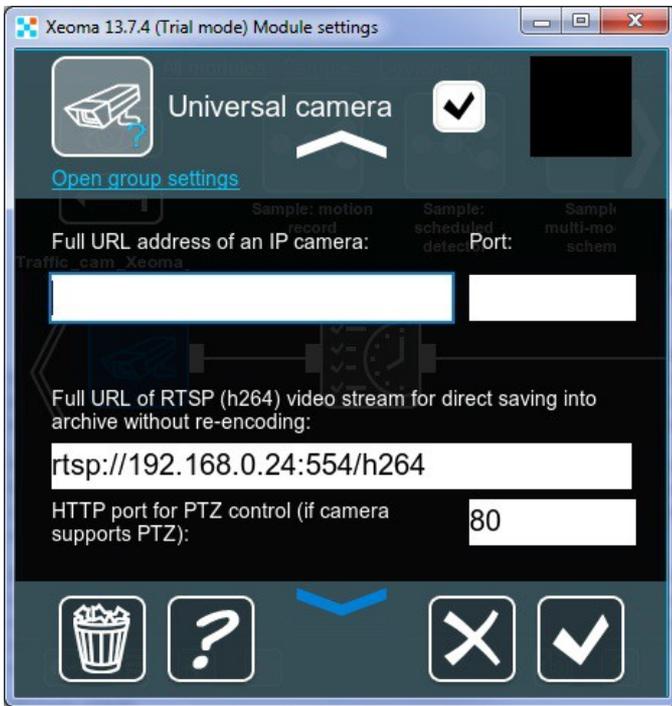
You will see a lower quality picture in preview window.



But you will get maximum quality footage stored into the archive at the same time:



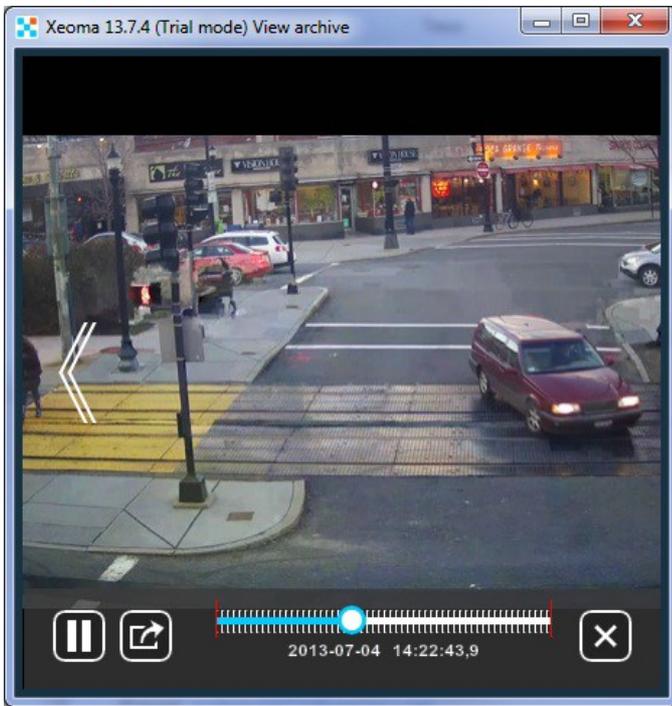
If you don't know the URL for a stream of lower quality, or simply don't want to use it (when real-time view is not necessary), you can leave this field blank:



You will know that the recording is on and going well by this sign:

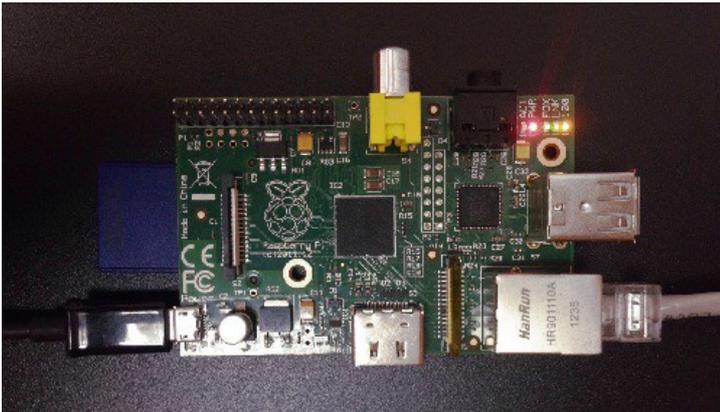


Even without lower quality stream showed in preview, you will get a high quality stream stored to the archive, and CPU load will be significantly lower.



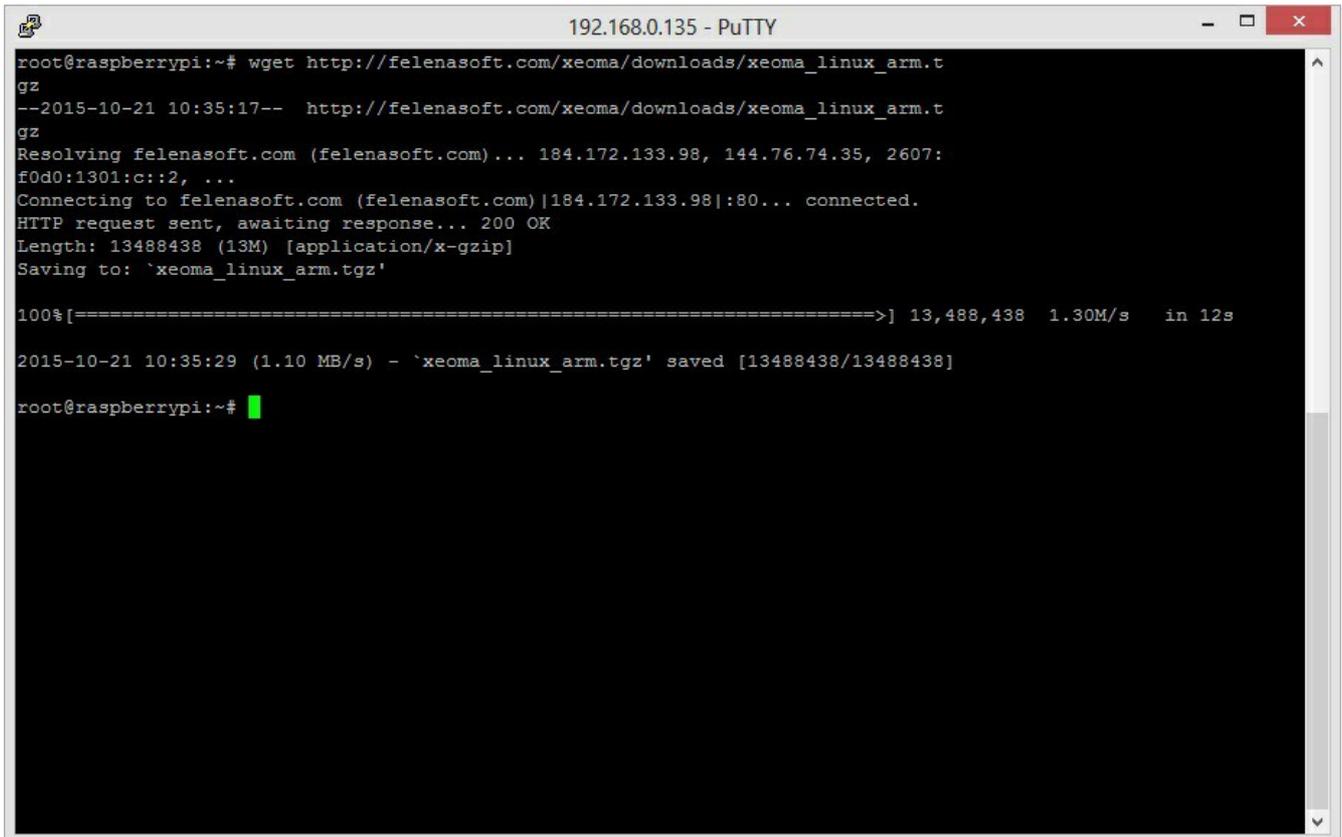
How to set Docokame@VSS on Raspberry Pi with ARM processor

Are you still using expensive video surveillance equipment? In this manual we are going to disclose a secret how to make your video surveillance cheaper. For this you will need Raspberry Pi single-board computer, Docokame@VSS and a simple IP camera. This will be Raspberry Pi security system!



You can easily buy Raspberry Pi on eBay for \$20 and Raspberry Pi 2 for \$40.

Please download Docokame@VSS ARM version:



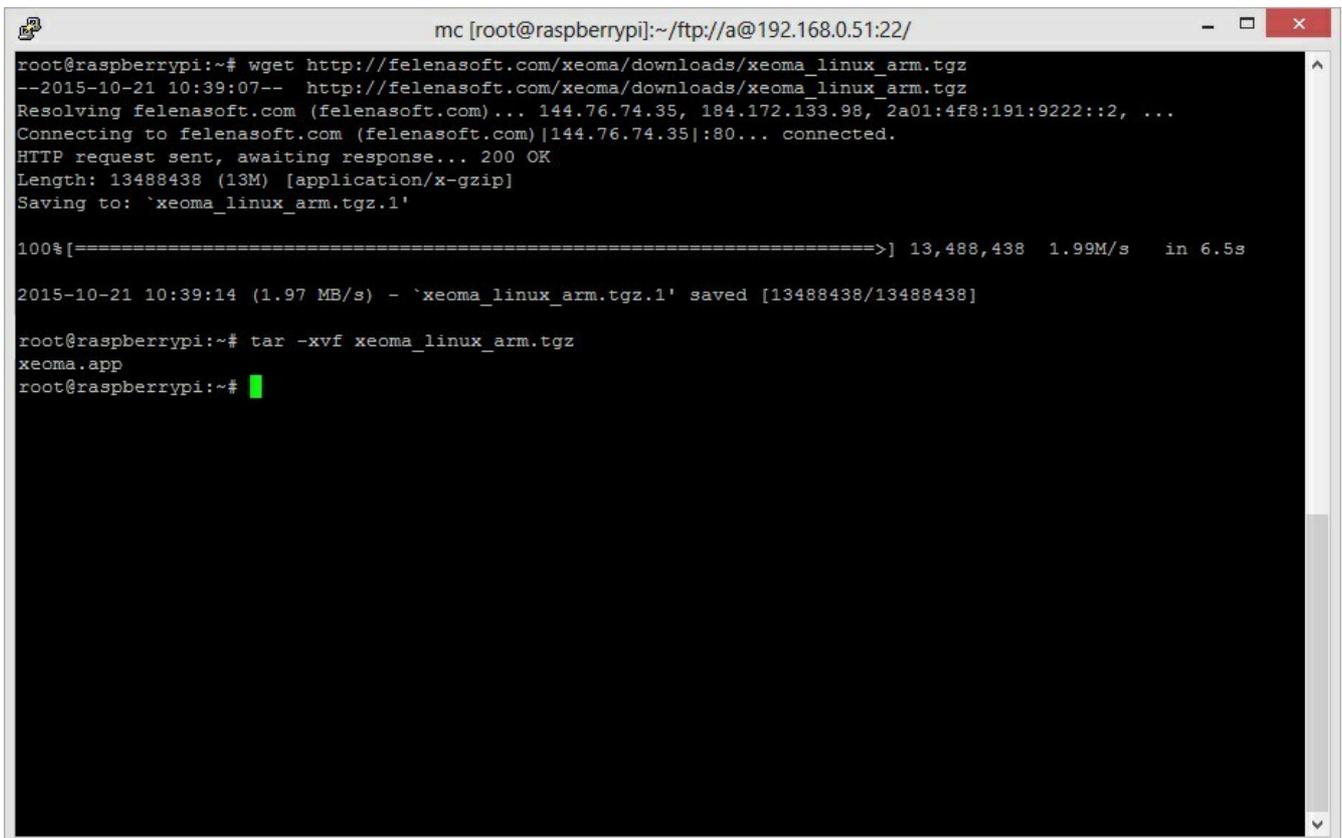
```
192.168.0.135 - PuTTY
root@raspberrypi:~# wget http://felenasoft.com/xeoma/downloads/xeoma_linux_arm.tgz
--2015-10-21 10:35:17-- http://felenasoft.com/xeoma/downloads/xeoma_linux_arm.tgz
Resolving felenasoft.com (felenasoft.com)... 184.172.133.98, 144.76.74.35, 2607:f0d0:1301:c::2, ...
Connecting to felenasoft.com (felenasoft.com)|184.172.133.98|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 13488438 (13M) [application/x-gzip]
Saving to: `xeoma_linux_arm.tgz'

100%[=====>] 13,488,438  1.30M/s  in 12s

2015-10-21 10:35:29 (1.10 MB/s) - `xeoma_linux_arm.tgz' saved [13488438/13488438]

root@raspberrypi:~#
```

Then you need to unzip the downloaded file:



```
mc [root@raspberrypi:~/ftp://a@192.168.0.51:22/
root@raspberrypi:~# wget http://felenasoft.com/xeoma/downloads/xeoma_linux_arm.tgz
--2015-10-21 10:39:07-- http://felenasoft.com/xeoma/downloads/xeoma_linux_arm.tgz
Resolving felenasoft.com (felenasoft.com)... 144.76.74.35, 184.172.133.98, 2a01:4f8:191:9222::2, ...
Connecting to felenasoft.com (felenasoft.com)|144.76.74.35|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 13488438 (13M) [application/x-gzip]
Saving to: `xeoma_linux_arm.tgz.1'

100%[=====>] 13,488,438  1.99M/s  in 6.5s

2015-10-21 10:39:14 (1.97 MB/s) - `xeoma_linux_arm.tgz.1' saved [13488438/13488438]

root@raspberrypi:~# tar -xvf xeoma_linux_arm.tgz
xeoma.app
root@raspberrypi:~#
```

Now let's install the server to the auto start:

```

mc [root@raspberrypi]:~/ftp://a@192.168.0.51:22/
root@raspberrypi:~# wget http://felenasoft.com/xeoma/downloads/xeoma_linux_arm.tgz
--2015-10-21 10:39:07-- http://felenasoft.com/xeoma/downloads/xeoma_linux_arm.tgz
Resolving felenasoft.com (felenasoft.com)... 144.76.74.35, 184.172.133.98, 2a01:4f8:191:9222::2, ...
Connecting to felenasoft.com (felenasoft.com)[144.76.74.35]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 13488438 (13M) [application/x-gzip]
Saving to: `xeoma_linux_arm.tgz.1'

100%[=====>] 13,488,438  1.99M/s  in 6.5s

2015-10-21 10:39:14 (1.97 MB/s) - `xeoma_linux_arm.tgz.1' saved [13488438/13488438]

root@raspberrypi:~# tar -xvf xeoma_linux_arm.tgz
xeoma.app
root@raspberrypi:~# ./xeoma.app -install -coreauto
install server (auto start) and client (manual start) ... *      Ok > installFiles
*      Ok > popClientFromAutorun
*      Ok > installClientShortcut
*      Ok > registerInSystem
*      Ok > stopCore
*      Ok > registerCoreAsService
*      Ok > exchangeOldExeFileToNew
*      Ok > removeOldXeomaExe
*      Ok > installCoreAutostartOnly
Ok
Current password for network access: BT=u8+bDcY
root@raspberrypi:~# █

```

Please make sure that Docokame@VSS process is really started:

```

mc [root@raspberrypi]:~/ftp://a@192.168.0.51:22/
top - 10:41:57 up 18 days, 22:49, 2 users, load average: 1.71, 1.20, 0.68
Tasks: 77 total, 2 running, 73 sleeping, 2 stopped, 0 zombie
%Cpu(s): 92.9 us, 6.8 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.3 si, 0.0 st
KiB Mem:  445804 total, 414996 used,  30808 free,  65716 buffers
KiB Swap: 102396 total,  160 used, 102236 free, 203252 cached

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
 20425 root        20   0 41780  36m 10m  R  90.2   8.3   0:25.30 cclplus
 20413 root        20   0 138m  23m 15m  S   7.4   5.4   0:05.81 xeoma
 20463 root        20   0 4672 2460 2104 R   1.3   0.6   0:00.13 top
   41 root        20   0   0     0   0   S   0.3   0.0   2:21.35 mmcgd/0
  1554 root        20   0 1752  928  844  S   0.3   0.2  21:56.18 ifplugd
 19916 root        20   0 9344 4528 3932  S   0.3   1.0   0:01.14 sshd
    1 root        20   0 2148 1164 1060  S   0.0   0.3   1:00.89 init
    2 root        20   0   0     0   0   S   0.0   0.0   0:00.05 kthreadd
    3 root        20   0   0     0   0   S   0.0   0.0   3:26.32 ksoftirqd/0
    5 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 kworker/0:0H
    7 root        20   0   0     0   0   S   0.0   0.0  23:23.27 rcu_preempt
    8 root        20   0   0     0   0   S   0.0   0.0   0:00.00 rcu_sched
    9 root        20   0   0     0   0   S   0.0   0.0   0:00.00 rcu_bh
   10 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 khelper
   11 root        20   0   0     0   0   S   0.0   0.0   0:00.01 kdevtmpfs
   12 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 netns
   13 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 perf
   14 root        20   0   0     0   0   S   0.0   0.0   0:01.28 khungtaskd
   15 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 writeback
   16 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 crypto
   17 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 bioset
   18 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 kblockd
   19 root        20   0   0     0   0   S   0.0   0.0  17:57.45 kworker/0:1
   20 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 rpciod
   21 root        20   0   0     0   0   S   0.0   0.0   0:15.74 kswapd0
   22 root        20   0   0     0   0   S   0.0   0.0   0:00.00 fsnotify_mark
   23 root        0 -20   0     0   0   S   0.0   0.0   0:00.00 nfsiod

```

In the end, we need to know device IP address and password:

```
mc [root@raspberrypi]:~/ftp://a@192.168.0.51:22/
root@raspberrypi:~# ifconfig
eth0      Link encap:Ethernet  HWaddr b8:27:eb:88:8a:0a
          inet addr:192.168.0.135  Bcast:192.168.0.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:7062647  errors:0  dropped:4250  overruns:0  frame:0
          TX packets:1862481  errors:0  dropped:0  overruns:0  carrier:0
          collisions:0  txqueuelen:1000
          RX bytes:762117335 (726.8 MiB)  TX bytes:506873639 (483.3 MiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:34742  errors:0  dropped:0  overruns:0  frame:0
          TX packets:34742  errors:0  dropped:0  overruns:0  carrier:0
          collisions:0  txqueuelen:0
          RX bytes:7270726 (6.9 MiB)  TX bytes:7270726 (6.9 MiB)

root@raspberrypi:~# █
```

```
192.168.0.135 - PuTTY
root@raspberrypi:~# ./xeoma.app -showpassword
Current password for network access: BT=u8+bDcY
root@raspberrypi:~# █
```

Now, download the client for any operating system and use remote access to connect. In the remote access option enter device IP address and password.

Now configure your camera in the Raspberry Pi security system!