

User Manual



...and you see more!

Manual for the Video Surveillance C-MOR

Version 2.30 for C-MOR Version 4.12

Introduction

Dear customer,

Thank you for choosing the C-MOR video server. The quality product you have purchased is state-ofthe-art and complies with European and national directives. The declaration of compliance has been confirmed and all necessary documents are deposited with the manufacturer.

To ensure the best results and long-term satisfaction and to ensure safe operation, the instructions in this manual must be followed. In case of questions, please contact your specialist dealer.

The video server C-MOR is used for the surveillance of objects. The video signals recorded during surveillance are digitally transferred over the connected network from your camera to C-MOR. The software installed on the hardware enables simultaneous recordings of max. 15 connected video signals. Data saving underlies country-specific guidelines. You are able to access installed cameras and servers (secured by password and encryption) over your web browser from all over the world.

In case of technical problems or questions on installation and setup of C-MOR, please contact our hotline. Please find more information on www.c-mor.us (or please see contact data in the appendix of this manual).

Before putting into operation

The use of surveillance systems may be prohibited or regulated by law in certain countries. C-MOR has not only been developed for high performance use over the internet, but can also be part of a flexible surveillance facility.

Before putting the system into operation the user has to make sure that surveillance is carried out within regulatory framework. Before installation, please make sure that the package content is complete. In order to avoid damage by incorrect connection or wrong configuration, please read the manual carefully before using this device, follow the instructions and keep the manual for future use. Following the instructions ensures that the device will be correctly put into operation. Please visit our forum for solutions on www.c-mor.com for FAQ on configuration errors. In case you encounter problems during the setup of your system, please visit the forum as a first step for finding a solution.



Table of Contents

1 Installation	5
1.1 Support	
1.2 IP Camera Quick Installation	6
2 The Web Interface	. 10
2.1 Start Page	. 11
2.2 Camera Page	. 12
2.3 Quick Start Page	
2.4 Recordings	
2.5 Show Recordings	
2.6 Save Recordings	
2.7 Play Recordings	
2.8 Delete Recordings	
2.9 System Administration	
2.10 System Status	
2.10 System Status	
2.12 Mobile Devices, Android and iPhone	
2.12.1 Access with Mobile Devices	
2.12.2 Display of Live Images on the iPhone	
3 Administration	
3.1 System Administration	
3.1.1 System Name	
3.1.2 Change IP Settings	.43
3.1.3 Email Alarm Configuration	
3.1.4 Set Time	
3.1.5 Configuration of Time Zone	. 46
3.1.6 Time Server Configuration	
3.1.7 Activation and Deactivation of Recordings	. 48
3.1.8 Storage Time of Recordings	
3.1.9 Automated Deletion of Oldest Recordings	. 49
3.1.10 Change Camera Configuration	
3.1.11 User Administration	
3.1.12 Setup User Settings and Permissions	
3.1.13 FTP Server Configuration	
3.1.14 Language	
3.1.15 Start Page Configuration	
Here you have the option between different stream sizes to choose	
3.1.16 Remote Access	
3.1.16.1 Remote Access Limitations	
3.1.17 Stacking function - interconnecting several C-MOR units	59
3.1.17.1 Stacking configuration of the C-MOR Master	. 00
3.1.17.2 Stacking configuration of the C-MOR Slaves	
3.1.17.3 Stacking Live View function	
3.1.18 System Restart	
3.1.19 System Shutdown	
3.1.20 Software- and Camera Updates	
3.1.20.1 Software Updates	
3.1.20.2 Camera Update	
3.1.21 License Upgrade	
3.1.22 Backups	
3.1.22.1 Backup Management	
3.1.22.2 Restore Camera Backups	
3.1.23 Stream-Type	
3.1.23.1 Java Mode in Live View	.73

C-MOR

3.2 Camera Configuration	74
3.2.1 General Description of Configuration Options	
3.2.2 Camera Activation	
3.2.3 Camera Configuration, Integration of Existing Camera	
3.2.4 Image Mask for the Definition of the Areas for Motion Detection	
3.2.5 The C-MOR PTZ Control	
3.2.6 Usage of the PTZ control	
4 Legal Information	100
4.1 Disclaimer	
4.2 Warranty	100
5 GNU Public License, GPL	
5.1 Preamble	101
5.2 Terms and Conditions for Copying, Distribution and Modification	101
6 Appendix - Contact Information	



1 Installation

This user manual is a general documentation for all C-MOR models. Those models are all hardware versions as well as all virtual machine versions. For each version exists an extra installation guide which is online available on the C-MOR home page <u>http://www.c-mor.com</u>. Download the installation guide from the C-MOR web to learn more how to do the initial set up of C-MOR. The installation process is described in this manual.

Following C-MOR models are available

- Compact server case for 3 to 9 cameras in the basic configuration
- Rack mount Server for computer centers or 19 inch rack mount shelves for 9 to 15 cameras
- Low power consuming and fan less mini case for 3 cameras in the basic configuration
- Tower Server for 15 Cameras
- Software server for the installation on a virtual server or in a cloud.

1.1 Support

In case of unexpected problems during the C-MOR installation please contact our support by the help of the online support form under <u>http://www.c-mor.com</u>. Please contact your dealer where you bought C-MOR first if you have any questions.

Please also check out the support forum on our homepage where you can find many cases that might answer your questions.

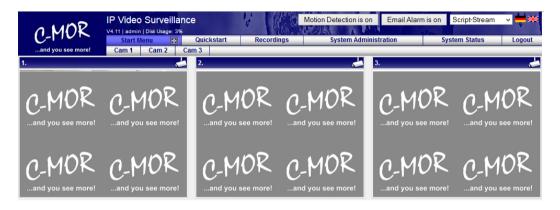


1.2 IP Camera Quick Installation

If C-MOR is installed and you have access to the network, the following steps will show you, how to take an IP-camera without special settings via C-MOR in operation.

C-MOR video surveillance is configured by web interface only. All settings are made through the web management surface.

Log in to your C-MOR video surveillance system. Simply enter the IP address of the C-MOR in your web browser window. The default IP address is 192.168.1.2. Please enter <u>http://192.168.1.2</u> if you have not changed the IP address. The default login is "admin" and the default password is also "admin".



Please select the "System Administration" menu on top of the C-MOR web page to setup your IP camera.



Scroll down to the section where you can configure IP cameras and select for example the first IP camera, cam1:





IP Video Surveillance Motion Detection is on Email Alarm is on Script-Stream 🗸 C-MOR V4.12 | admin | Disk Usage: 1% Start Menu Quickstart System Status Recordings System Adm stration Logou Cam 2 Cam 3 **Recordings Camera 1, Location:** Cam recording is not active! C-MOR ...and you see more! ...and you see more! MOR C-MOR ...and you see more! ...and you see more! Cam Configuration Live Stream

Alternatively, you can access the camera configuration directly via the camera side " Camera 1 " .

Once you are in the IP camera configuration menu of camera one, you simply enter the IP address of the camera, the access data, username and password, as well as the TCP/IP Port. This is mostly port number 80:

Camera Network Data

IP Address/DNS Name	172.20.1.76
TCP-IP-Port	80
User Name	viewer
Password	•••••



You can also directly adjust the setting, how long the recordings should be stored:

Delete the Recordings after	10	~	days	Save
	10	~		
	2 3 4 5 6 7			
	4			
	5			
	6			
	7			
	8 9			
	10			
	11			
	12			
	13			
	14 15			
	20			
	25			
	30			
	60	~		
	90			

Now select your IP camera model from the "Camera Type Configuration" menu and press "Save Configuration". In this example an Allnet Camera with the default cam size was selected. At this point all required parameters for the basic motion and time-lapse recordings are made already:

Camera Type Configuration

Please select the cam type that matches the connected cam:

Cam Type	ACTi ACM-1431	^
	A-Link IPC1 (experimental)	
	Arecont Vision 1125 DR	
	Analog-Digital Converter	
	Aviosys IP9100A	
	Airlink AIC250W/D-LINK	
	Airlink AIC600W MJPEG	
	Airlink AIC600W JPEG	
	Allnet 2205	
	Allnet 2272	<u>~</u>
Manual path	/jpg/image.jpg	

Save Configuration

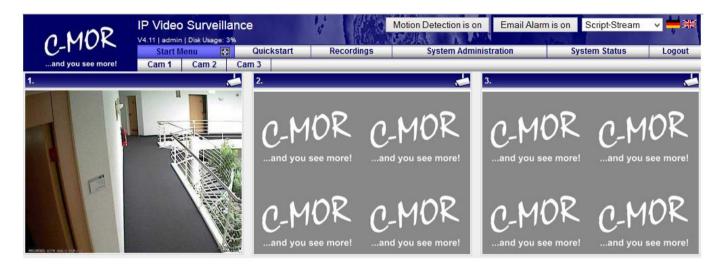
On the next page, the saved configuration page, you have to activate your camera.



The status shows now, that recording for the IP camera has been activated:

C-MOR	IP Video S			1000		Motion Detection is	s on Email Alarm is on Script-Strea	m 🔹 💳 💥
	Start M	inerende	Quickstart	Recordings	System A	Administration	System Status	Logout
and you see more!	Cam 1 Recording for		 activated.					
	Start	Page						

If all parameters are set correct, you are able to see the live view of the camera on the start page:



Now it's time to do some testing. Click on the cam1 menu on top and verify when (motion) recordings are generated. From this menu you simply click on "Cam Configuration" to optimize the parameters for motion-detection, alarm emails, with or without attached videos, the length of single recordings and so on. Details on the settings can be found in this manual in the chapter "Administration".



2 The Web Interface

The main tool for the operation and administration of C-MOR is the web interface. Enter the IP address which you have set for example 172.20.1.234. If you don't have changed your IP address insert the default IP address such as 192.168.1.2 into the address bar of your web browser as described under step 2. A window will pop up asking for your user name and password.

The unit is supplied with one pre-configured Administrator user name and password, set to operate and administrate, respectively.

User name: admin, standard password admin

he server http://1	72.20.1.234:80 requires a username an
	ver says: C-MOR Web-Administration.
User Name:	admin
Password:	*****

C-MOR is being controlled by your individual settings over your web browser:

- Time-controlled recordings
- View of live stream by camera
- Sensitivity of motion detection
- User administration: distribution of rights, creation of new user etc.
- Call, search and display old recordings either as video files or single frames
- Archiving of recordings
- FTP transfer of recordings to a server
- Deletion of recordings for the release of free disk space
- Integration of own/existing cameras (when supported by the system)
- And many more

More information can be found in chapter "Administration".

Besides HTTP connections that are transferred over the Internet without encryption C-MOR also offers encrypted access over HTTPS. In order to use this so-called SSL connection, enter https instead of http in the URL, such as https://c-mor.your-domain.com or https://IP-address (e.g. 192.168.1.2).

Apart from the standard ports 80 for HTTP and port 443 for HTTPS, C-MOR can also be used over the alternative port 9000 (for HTTP) and port 9443 (for HTTPS). These alternative ports are used when C-MOR is accessed over a firewall and the respective ports on the firewall are already in use by other applications.

The web surface is divided into 6 main web pages that are built on each other and individual pages for the corresponding camera:



2.1 Start Page

The start page consists of the menu in the upper section of the page, 6 camera live views and the reference to the camera functions.



On the start page you will find an overview of all functions for the operation and administration of C-MOR. As soon as a camera within the net is activated and starts recording, an up-to-date snapshot by the camera will be displayed.

If you are logged in as admin (administrator) on C-MOR and if you have C-MOR Version 4.01 or newer you will see on the right top two buttons to activate or deactivate the motion detection or email alarm with a single click.

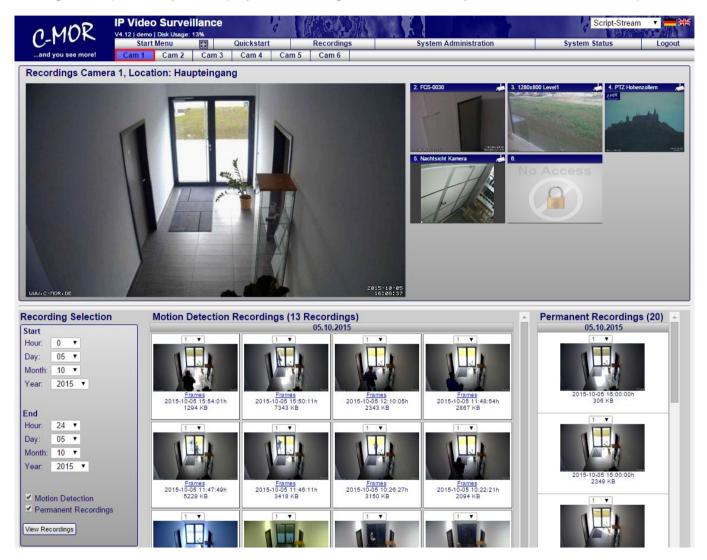


These buttons are also available on mobile devices.



2.2 Camera Page

In example by clicking the button "Cam 1" you will get to the "Camera Page" of camera 1. Here you will be able to see a live image of your camera - provided there is an active connection to it. Furthermore on this page you have the possibility to play the recordings of the respective camera, to save, to get to the page where the camera can be configured and to view a live stream in a separate window. Also you can see a preview of each recording. You only have to move your mouse pointer over the preferred video. By clicking on the pictures, you can play the recordings or save them on your local workstation computer.





2.3 Quick Start Page

On the quick start page you are able to choose the size of the stream by clicking on the play button of the camera in question. Then the live stream will be opened and start playing in the requested size in a separate window.



The Quick Start Page has a great advantage! It starts up quickly even it is accessed through a slow Internet connection. The small thumb nail camera pictures are updated in a high refresh rate only. This means that this page is not usable for live monitoring.

Another advantage of this page is the independent view of single camera streams. Users have the capability to open camera stream by camera stream and place the single views where ever they want to have it on their screen. Also, this single camera live streams are enabling users to use ActiveX cameras in combination with Apple's Safari or other non-Internet Explorer web browsers!

The following site will show you an example of the different sizes of the livestream view.





Livestream in full camera resolution, 768x576 pixels in this example





Fourth camera resolution, 192x144 pixels



2.4 Recordings

Under the menu item "Recordings" your recordings can be administrated. Settings like start/stop, type, deletion, save via FTP and select individual recordings for delete can be carried out on this page if the user have the necessary rights.

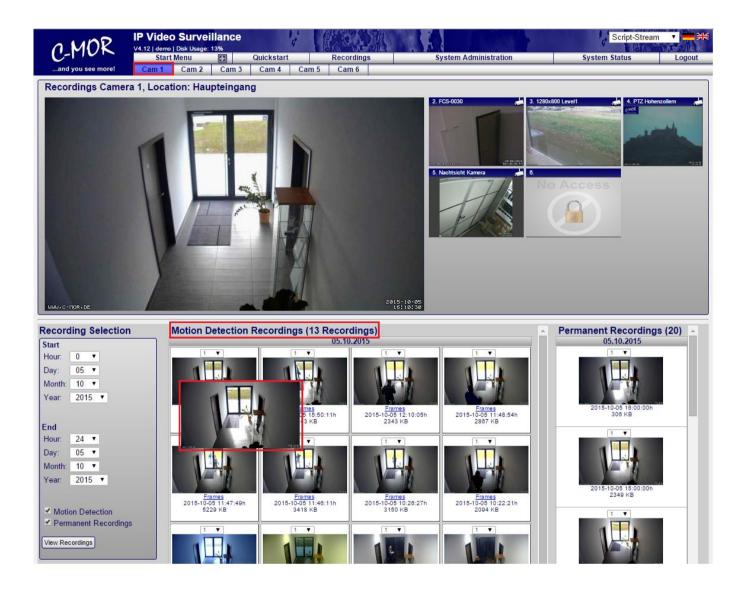


In the lower part you find the functions for deleting your recordings.

Delete Recordings
Start Hour: 0 V Day: 11 V Month: 05 V Year. 2015 V
End Hour: 24 V Day: 11 V Month: 05 V Year: 2015 V
Cam 1 Cam 2 Cam 3
Recordings by Motion Detection
Permanent Recordings Delete Recordings
Delete Single Recordings
Start Hour: 0 ▼ Day: 11 ▼ Month: 05 ▼ Year. 2015 ▼
End Hour: 24 V Day: 11 V Month: 05 V Year: 2015 V
Camera:
Select Recordings
Start Page



Once you have selected the time frame, camera and the recording types the next page shows you all found recordings as pictures. Use the mouse-over a picture to see in a little preview video the scene which was recorded in the selection.



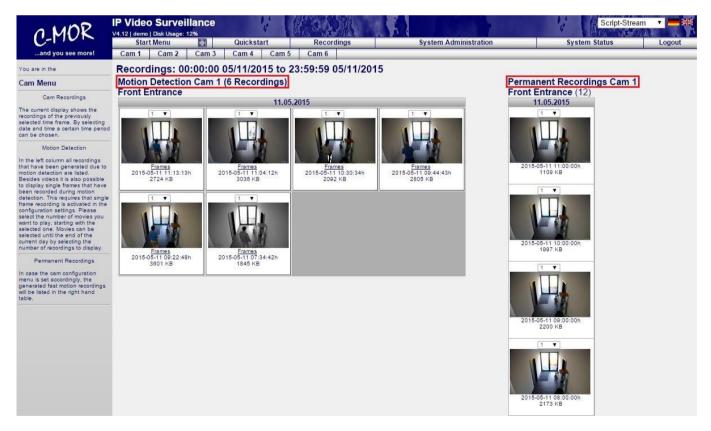


2.5 Show Recordings

By clicking on the button "Display Recorings" on the "**Recordings**" site you have the choice to select separate cameras, a desired period to display and the type of your desired recordings.



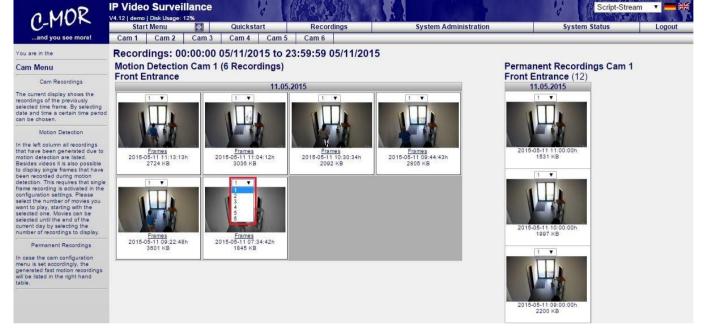
After your selection of camera, desired period and type of your recordings (motion detection or permanent recordings) you will be redirected on following site.



On this page you see pictures of your recordings and you have the opportunity to look first to the preview videos. This preview videos show you a few seconds of the complete recording. Just move the cursor over the image.

2.6 Save Recordings

You can play recordings or save them. First you need to select the number of scenes, which is to be stored or played



After clicking on the picture there will be another picture with following text:" Video starts. Please wait! ". After that it appears another window which asks you if you want to save or to open the file. For saving you confirm your selection by clicking on the button "Save".

Oper	ning s20150515-10-timelapse.mpg
u have chosen to	open:
s20150515-1	0-timelapse.mpg
which is: Mov	ie Clip (103 KB)
from: http://1	
hat should Firefo	x do with this file?
O Open with	Windows Media Player (default)
Save File	J

Now you can save space and delete the single recording on C-MOR.





Note:

C-MOR tries to control your browser in that way. That always a window appears which is asking you, if you want to save or to watch the film. But if your browser doesn't show you that possibilities, you have to check the settings of your browser. And if you want your browser to ask you, you have to change the settings of your browser.

Every Recording, which was recorded by the reason of motion, have separate single-frame-scenes, in case of you have activated them.

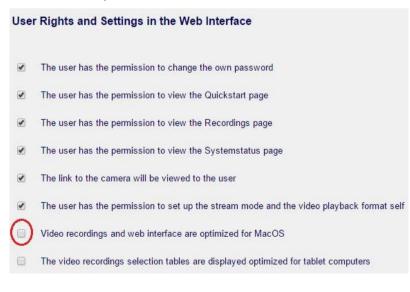


By clicking on "Frames" you will be redirected on the site, where you can look at the single pictures or you can download them as ZIP-file.

Does you have a Mac from Apple and your recordings can not be played, you have to go to the menu item "System Administration". There you have to choose:

admin Vuser Configuration

And to confirm your selection by clicking on the button "User Configuration". There you have to check if the Mac-OS Optimization is marked.





2.7 Play Recordings

The playing of your recordings is the same procedure like saving. Now you have to select "Open" the file, when your browser asks you if you want to save or to open. Your Media-Player will start and play the recordings.

2.8 Delete Recordings

There are two options to delete recordings. In addition you can select your recordings hours exactly. Cameras can be selected individually.

Delete Recordings



If you choose this option, your recordings will be deleted directly.

Under the Menu item "Delete Single Recordings" you can select a period of time of specific camera. In the next opened window you can select each record individually for deletion.



Now the next opened window shows your recordings I a list.



Motion Detection Recordings Ca 00:00:00 to 23:59:59 2015-05-15		Recordings Ca 23:59:59 2015-	
Delete Start Time By	Delete	Start Time	Bytes
No Recordings found		15.05.2015	
		13:00:00h	89326
		12:00:00h	110148
		11:00:00h	110150
		10:00:00h	110212
		09:00:00h	110365
		08:00:00h	110265
		07:00:00h	110246
		06:00:00h	110249
		05:00:00h	110238
		04:00:00h	110230
		03:00:00h	110261
		02:00:00h	110274
		01:00:00h	110326
		00:00:00h	110305

After marking the recordings you want to delete, you confirm your selection with clicking the "Delete Recordings" button.

Following a pop-up window appears, now you have to confirm once again your selection. This ensures that no important records are deleted accidentally.

Do you really want to	delete the select	ted recordings?
	ОК	Cancel



2.9 System Administration

Under "System Administration" you can define all important configuration settings in order to adjust C-MOR to your requirements and ensure a smooth operation in your network. The following sub chapters go into the details of the different configuration options.

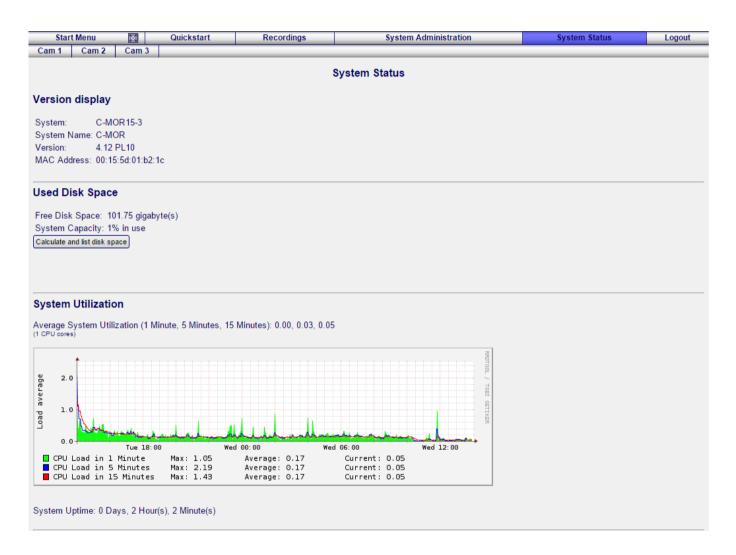
OMOR	IP Video Surveillance V4.11 Jadmin Disk Usage: 1%	am 🔻 💳 커북
C-PIUN	Start Menu 🔯 Quickstart Recordings System Administration System Status	Logout
and you see more!	Cam 1 Cam 2 Cam 3	
Your are in the	System Administration	
System Administration Menu		
Network Configuration	License Installation	
Internet Proxy Configuration	Please install a C-MOR license to enable all functions of C-MOR and activate more than one cameral	
Alarm Emails	License Installation	
Time Setting		
Time Zone	System Name	open/close
Time Server	Network Configuration	open/close
Start/Stop Recordings		
Archiving	Proxy Server Configuration	open/close
Automatic deletion of oldest recordings	Email Alarm	open/close
Cam Configuration		
User Administration	Set Time	open/close
User Camera Settings FTP Server Configuration	Configuration of the Time Zone	open/close
System Language	Time Server	open/close
Video Size Start Screen	Start/Stap Depardings	
Remote Access Configuration	Start/Stop Recordings	open/close
C-MOR Stacking	Storage Time of Recordings	open/close
System Restart	Automatic Deletion of oldest Recordings	open/close
System Shutdown	•	
C-MOR Software Update	Camera Configuration	open/close
License Upgrade Backups	User Administration	open/close
	User Camera Rights Administration and Live Stream Mode Settings	(open/close)

The note "License installation" can be found only in the free version of C -MOR .As soon as a license is installed, this note doesn't appear again.



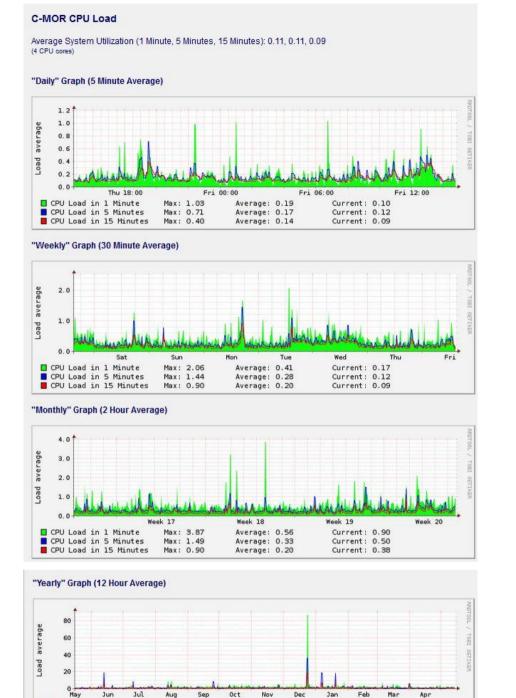
2.10 System Status

Under "System Status" there is an overview listing status information of C-MOR. In the upper area you see your version number with the sum of your licensed cameras, your use disk space und your system utilization. In addition, under the system utilization, the operating time of your C-MOR is displayed. The operating time refers to how long your C-MOR is straight on. If a restart or system failure have happened, you recognize the fact that the operating time has started again from 0.



The CPU Load shows how much the system is used. This is important to realize if the C-MOR system is overloaded. Reasons for this are too much frames per second (fps) in motion detection mode or too big camera pictures in connection with additional cameras. It should be noted, the "Load" parameter refers to the used CPU cores or must be divided by this number. With a load of 1 and just one CPU core the system is running at 100 % on the CPU. With a Load of 1 and two CPU cores the system is running only 50%!

By clicking on the CPU usage graph you call the load graphics for " Daily ", "Weekly", " Monthly " and "Yearly":



Average: 1.86 Average: 1.21 Average: 0.65

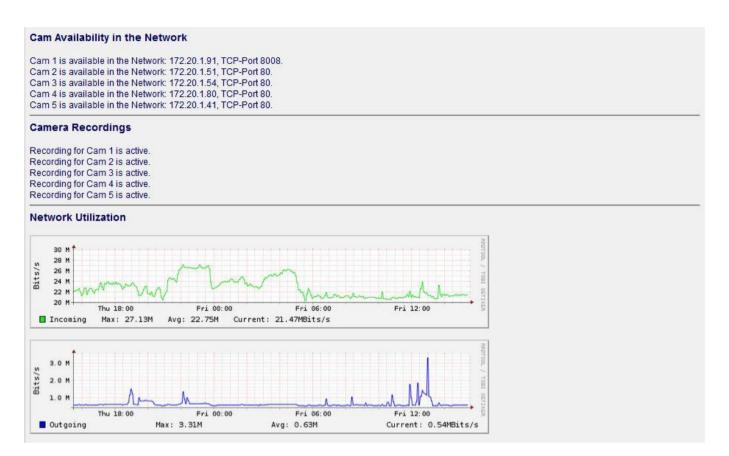
Max: 86.66 Max: 35.66 Max: 18.38 Current: 1.01 Current: 0.71 Current: 0.40

Start page

CPU Load in 1 Minute CPU Load in 5 Minutes CPU Load in 15 Minutes



The middle part of this site shows you the camera availability and the Network Utilization of your C-MOR. Using these graphics utilization errors in the network can be detected. The graphics are divided in incoming network traffic (green line) and in outgoing network traffic (blue line).





In the lower part of System Status the log files are shown which can be used to get support. Just copy and paste the Log into an email, and send it to the C-MOR support team. The Log File can be very useful to solve problems or to fix them.

```
System Log File
```

May 11 16:16:31 c-mor-v4 c-mor15: checkem, warning mail again from cmordemo@za-mail.de to c-mor-demo-alarm@za- ٨ mail.de after 349472 seconds. May 11 16:16:31 c-mor-v4 c-mor15: Sending warn mail to c-mor-demo-alarm@za-mail.de: C-MOR-ZA-DEMO: 1280x800 Level1 ist nicht verfuegbar May 11 16:17:37 c-mor-v4 c-mor15: checkem, not enough time gone to send alarm again: 66 seconds. Wait until: 3600 seconds reached. May 11 16:17:39 c-mor-v4 cam3: [0] Motion 3.2.12 Started May 11 16:17:39 c-mor-v4 cam3: [0] Motion running as daemon process May 11 16:17:39 c-mor-v4 cam3: [0] ffmpeg LIBAVCODEC_BUILD 3412993 LIBAVFORMAT_BUILD 3415808 May 11 16:17:41 c-mor-v4 cam3: [1] Resizing pre_capture buffer to 1 items May 11 16:17:41 c-mor-v4 cam3: [1] Resizing pre_capture buffer to 4 items 11 16:17:42 c-mor-v4 c-mor15: checkem, not enough time gone to send alarm again: 71 seconds. Wait until: 3600 seconds reached. May 11 16:17:53 c-mor-v4 c-mor15: checkem, not enough time gone to send alarm again: 82 seconds. Wait until: 3600 seconds reached. May 11 16:18:03 c-mor-v4 c-mor15: checkem, not enough time gone to send alarm again: 92 seconds. Wait until: 3600 seconds reached. May 11 16:18:13 c-mor-v4 c-mor15: checkem, not enough time gone to send alarm again: 102 seconds, Wait until: 3600 seconds reached. May 11 16:18:16 c-mor-v4 c-mor15: checkem, not enough time gone to send alarm again: 105 seconds. Wait until: 🗸 3600 seconds reached.

Mail Log File

Start Page

May 11 16:16:32 c-mor-v4 [9259]: 167D31800024B: message-id=<20150511141632.167D31800024B@c-mor-v4.cmor-video.com> May 11 16:16:32 c-mor-v4 [2084]: 167D31800024B: from=<cmordemo@za-mail.de>, size=826, nrcpt=1 (queue active) May 11 16:16:32 c-mor-v4 [9265]: 167D31800024B: to=<c-mor-demo-alarm@za-mail.de>, relay=mail.zamail.de[193.7.168.4]:25, delay=0.48, delays=0.29/0.16/0.03/0.01, dsn=2.0.0, status=sent (250 2.0.0 Ok: queued as 8EE3983F14) May 11 16:20:22 c-mor-v4 [15600]: 31250180001E4: message-id=<20150511142022.31250180001E4@c-mor-v4.cmor-video.com> May 11 16:20:22 c-mor-v4 [2084]: 31250180001E4: from=<cmordemo@za-mail.de>, size=827, nrcpt=1 (queue active) May 11 16:20:22 c-mor-v4 [15609]: 31250180001E4: to=<c-mor-demo-alarm@za-mail.de>, relay=mail.za-mail.de[193.7.168.4]:25, delay=0.12, delays=0.11/0.01/0.01/0.01, dsn=2.0.0, status=sent (250 2.0.0 Ok: queued as 61C1183F2E) May 11 16:21:09 c-mor-v4 [15600]: 64197180001E4: message-id=<20150511142109.64197180001E4@c-mor-v4.cmor-video.com> May 11 16:21:09 c-mor-v4 [2084]: 64197180001E4: from=<cmordemo@za-mail.de>, size=859, nrcpt=1 (queue active) May 11 16:21:09 c-mor-v4 [15609]: 64197180001E4: to=<c-mor-demo-alarm@za-mail.de>, relay=mail.za-mail.de[193.7.168.4]:25, delay=0.18, delay=0.16/0/0.01/0.01, dsn=2.0.0, status=sent (250 2.0.0 Ok: queued as 980B783F3D) May 12 07:47:34 c-mor-v4 [22509]: 6892C180001E4: message-id=<20150512054734.6892C180001E4@c-mor-v4.cmor-video.com> May 12 07:47:34 c-mor-v4 [2084]: 6892C180001E4: from=<cmordemo@za-mail.de>, size=824, nrcpt=1 (queue active)

In support case you should "copy" the log file and "paste" it into the support-contact-form. You can find this form on http://www.c-mor.com.



2.11 Control with the iPad

You can use all functions of C-MOR with an iPad just like you can do with a desktop computer. But with the iPad you are mobile and you have your video surveillance always at your hand.

The following points characterize the iPad functions:

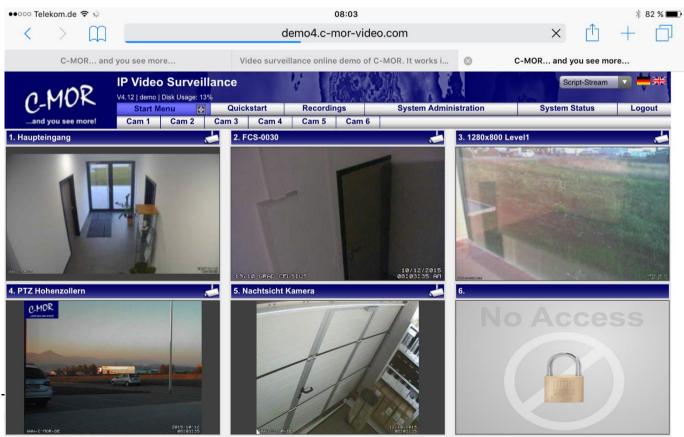
- Live view of many different camera models, even if the camera self has no direct iPad support
- Playback of motion, permanent or time-lapse recordings
- · Watch single frames
- Just get started. There is no App installation required
- Control your PTZ cameras
- Receive alarm emails with video attachments
- And many, many more!

The Web Interface of the iPad

On the **Start Page** you find an overview of all functions for the operation and administration of C-MOR. If a camera is in recording mode, the Live View of the camera will appear here.

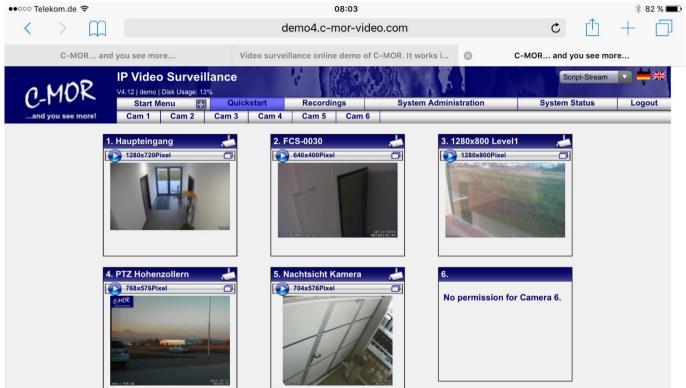
The web interface is same as the web interface of a normal web browser on your PC. Also, all features are available and the C-MOR web page is almost the same as you are used to with your PC.

In the Start Menu, you can see an overview of all installed cameras that can be accessed by C-MOR. You can touch on the camera live picture to select a single camera and watch the live view in a bigger picture or playback recordings.





The menu **Quickstart** shows the overview of all cameras, too. However, there is no Live View available in this menu. Here you just see static pictures updated every 15 seconds. If you have a small bandwidth connection of your iPad, this has the advantage, that you still have good access to the cameras. Here you can also choose the live stream, and you are able to play it with your iPad. If you are using C-MOR frequently through a low bandwidth connection it makes sense to bookmark this page as your C-MOR start page. It starts up faster than the other pages.



If you want to watch the live view of a camera, click on the button with the display size to open the live stream window.

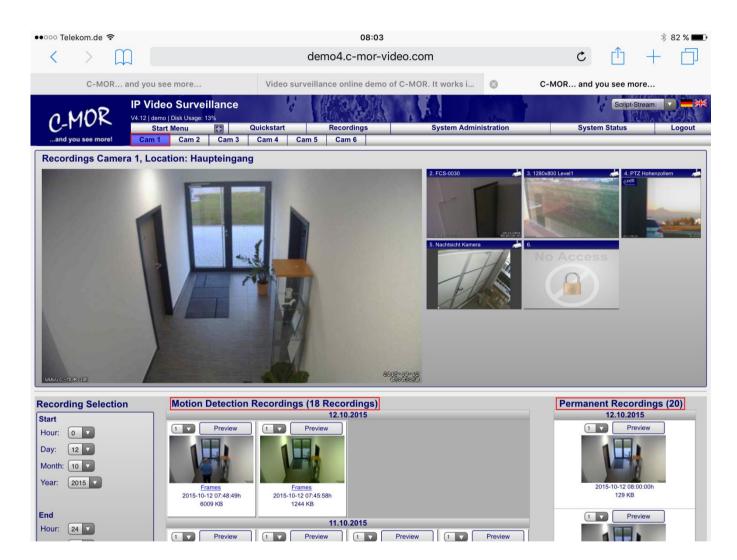
If you click on the static picture in the "Quickstart" view, you will be forwarded to the Live View site of the respective camera. The Live View site can also be reached with the buttons Cam 1 Cam 2 Cam 3 etc. in the top menu.



On the camera page you have the Live View of the respective camera. The associated motion detection recordings and time-lapse are listed in the tables below the live stream.

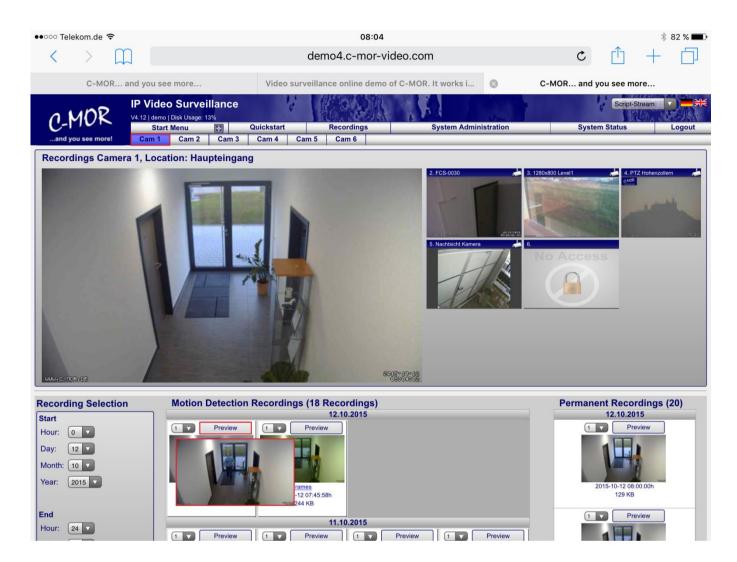
Choose for example cam 1.

You can see a list of pictures which show you your recordings of your motion detection and your permanent recordings.



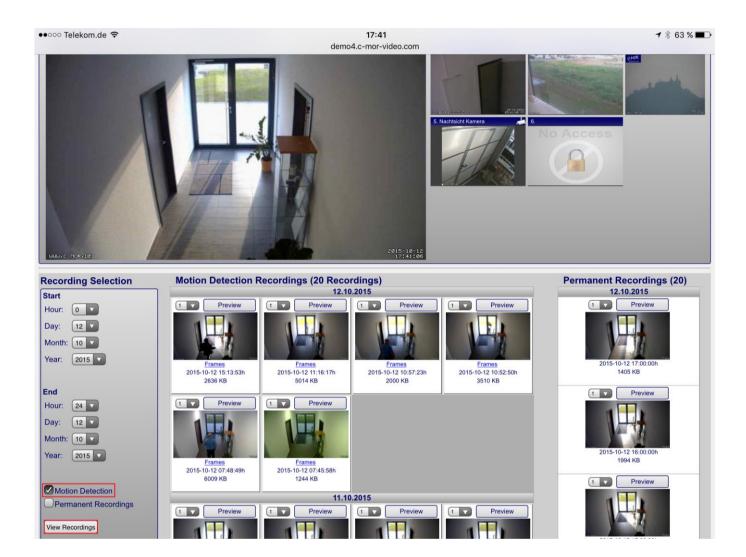


Your recordings are displayed as images. Just click on the button "preview" to watch a little preview of your recordings. Just to check first what happened during the desired recording.





If you only want to see your motion detection recordings you can choose on the left side "motion detection" and then you have to click on "view recordings".



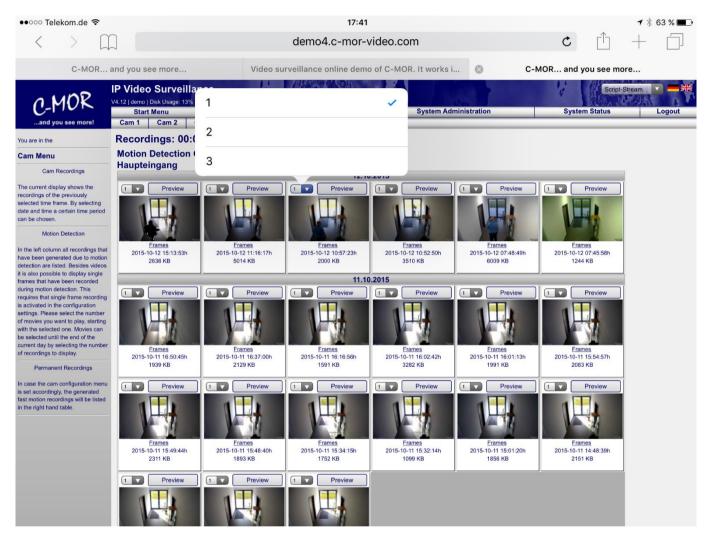


After your selection you see following aspect:

●●○○○ Telekom.de 🗢			08:04				* 81 % 🔳		
$\langle \rangle$		demo4.c-mor-video.com				Ċ 📫	+ 🗇		
C-MOR	and you see more	Video su	veillance online demo	o of C-MOR. It works i.	💿 c	-MOR and you see m	ore		
	IP Video Surveillar		ASS OSS	or c-mok. It works I.		A CONTRACTOR	-Stream		
1 1 1 1 2	/4.12 demo Disk Usage: 13%		服為於熱	A PAR	And I		COMPANY A V		
and you see more!		Quickstart	Recordings 5 Cam 6	System Adn	ninistration	System Status	Logout		
You are in the	Recordings: 00:00	:00 10/11/2015 to	23:59:59 10/12/20	15					
Cam Menu	Motion Detection Ca	am 1 (17 Recordings	•)						
Cam Recordings	Haupteingang 12.10.2015								
The current display shows the recordings of the previously selected time frame. By selecting date and time a certain time period can be chosen. Motion Detection	1 Preview	1 Preview							
In the left column all recordings that have been generated due to motion detection are listed. Besides videos it is also possible to display single frames that have been recorded	Erames 2015-10-12 07:48:49h 6009 KB	Frames 2015-10-12 07:45:58h 1244 KB	11.10	.2015					
during motion detection. This requires that single frame recording	1 Preview	1 Preview	1 Preview	1 Preview	1 Preview	1 Preview			
Incomes that shigh name recording is activated in the configuration settings. Please select the number of movies you want to play, starting with the selected one. Movies can be selected until the end of the current day by selecting the number of recordings to display.	Frames 2015-10-11 16:50:45h 1939 KB	Frames 2015-10-11 16:37:00h 2129 KB	Frames 2015-10-11 16:16:56h 1591 KB	Frames 2015-10-11 16:02:42h 3282 KB	Frames 2015-10-11 16:01:13h 1991 KB	Erames 2015-10-11 15:54:57h 2083 KB			
In case the cam configuration menu is set accordingly, the generated fast motion recordings will be listed in the right hand table.	Terview Frames 2015-10-11 15:49:44h 2311 KB	1 Preview Frames 2015-10-11 15:48:40h 1893 KB	1 Preview Frames 2015-10-11 15-34:15h 1752 KB	1 Preview Frames 2015-10-11 15:32:14h 1099 KB	Preview Enames 2015-10-11 15:01:20h 1856 KB	Image: Preview Preview Frames 2015-10-11 14:48:39h 2151 KB 2151 KB			
	1 Preview	1 Preview	1 Preview						

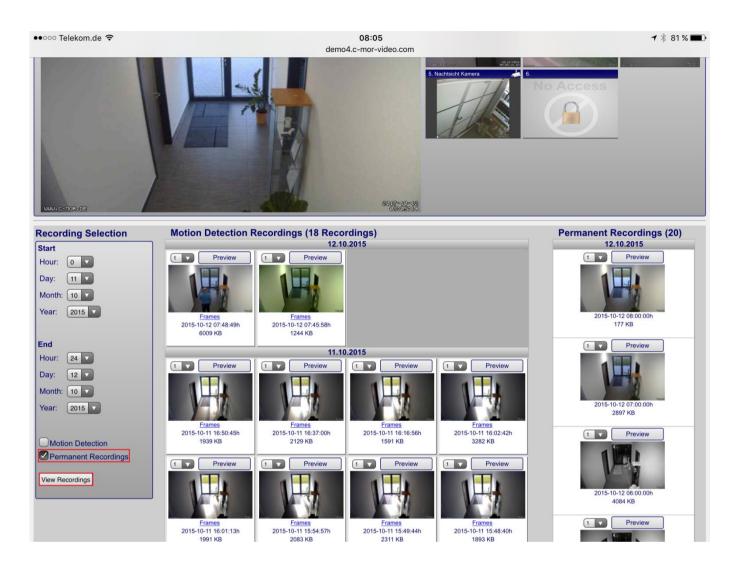


Here you have also the possibility to select the number of scenes you want see and you also can watch a preview of your recording.



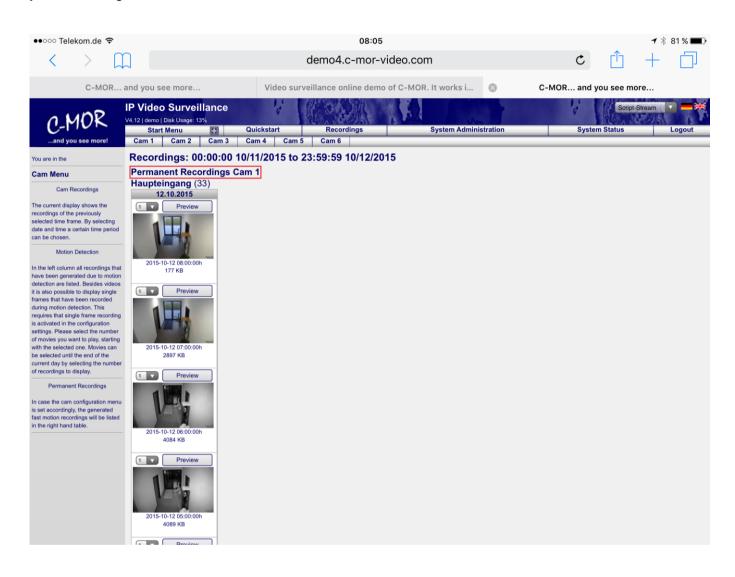


Also you have the possibility to select only your permanent recordings and there you have the same functions like you have by choosing motion detection recordings



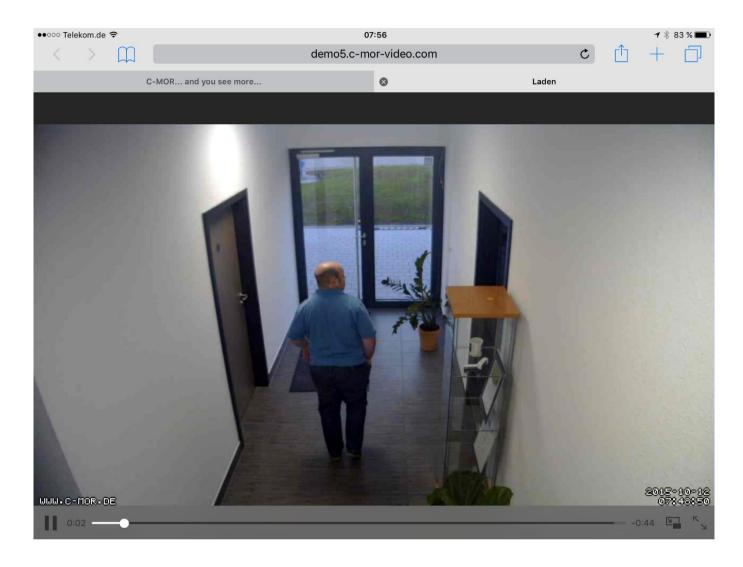


Now you see your permanent recordings. At this point you also have the possibility to view a preview of your recording, or to select the number of scenes.





Naturally you have the possibility to watch the complete recording and not only a preview. Therefore you have to tab the picture of your desired recording and the film will start.





All PTZ (pan, tilt, zoom) functions are available for the iPad, too. Even if the connected IP camera does not support the iPad, it can be controlled through C-MOR since C-MOR acts as interface between the iPad and the IP camera. Further information about the PTZ Control you can find under *Point 3.2.4 and 3.2.5*.





2.12 Mobile Devices, Android and iPhone

C-MOR offers 2 web interfaces for the use with mobile devices like Android phones, Windows Mobile, iPhone and others. 2 web addresses lead to these mobile interfaces:

/iphone: As the name says, for Apple iPhones

/mobile: For all other devices like Android and also for iPhones with an extra web browser like Chrome.

Both web interfaces do not require installing any App neither on the iPhone nor on Android to use it. Videos can be viewed as well as using the live view works straightforward.

If alarm videos are forwarded to an Android device and the recordings have a higher resolution, it may require using an additional video player on the Android phone. In this case we recommend the free MoboPlayer from the Android Play Store.

Notice:

For the use of the functions you need access to the internet like UMTS or GPRS.

2.12.1 Access with Mobile Devices

Please visit the following page to use your C-MOR with a mobile device like an Android smart phone:

http://<your IP address>/mobile

If you want to see the live view of your camera choose for example "cam 1". This button will leads you to the live view of camera 1.

You have the option to activate or deactivate "Motion Detection" or "Email Alarm" with a single klick.





By clicking on the link "Motion <cam no.>" the page with all motion recordings for the selected camera will be opened. By clicking "Time-lapse" the page for all time-lapse recordings of the selected camera will be opened.

By clicking on **Overview** you will return to the main page.



If you have selected "motion 1" and you are touching the button "preview" it will open the quick preview of the selected recording on the same web page. The recording is identified by the time stamp in the left column of the table. The header shows the date of the recordings.

By clicking on the picture itself a window will pop up, offering either to save or to open recording. In case the data has already been connected to a specific player, the application will then open automatically and you will be able to view the recordings. Otherwise please open the video manually.



2.12.2 Display of Live Images on the iPhone

For the iPhone there is a separate interface available, to display live streams and videos on mobile Devices. If you are owner of an iPhone please use following link to show the camera overview on an iPhone:

http://<your IP address>/iphone

If you want to see the live view of your camera choose for example "cam 1". This button will leads you to the live view of camera 1.

You have the option to activate or deactivate "Motion Detection" or "Email Alarm" with a single klick.







By clicking on the link "Motion <cam no.>" the page with all motion recordings for the selected camera will be opened. By clicking "Time-lapse" the page for all time-lapse recordings of the selected camera will be opened.

By clicking on **Overview** you will return to the main page.



If you have selected "motion 1" and you are touching the button "preview" it will open the quick preview of the selected recording on the same web page. The recording is identified by the time stamp in the left column of the table. The header shows the date of the recordings.

By clicking on the picture itself a window will pop up, offering either to save or to open recording. In case the data has already been connected to a specific player, the application will then open automatically and you will be able to view the recordings. Otherwise please open the video manually.





3 Administration

3.1 System Administration

Under **System Administration** the user can define all important configuration settings in order to adjust C-MOR for a smooth operation in the network.

The following settings can be carried out over the system administration:

- Setting the System Name for email notifications
- Carry out network or/and IP settings
- Proxy settings for internet access
- Configuration of email address for global system alerts
- Set time
- Configure time server
- Start/stop recordings (activate/deactivate camera)
- Define storage time for recordings per camera
- Auto delete in case of low storage space
- Setup the camera configuration of each camera
- User administration
- Configure Camera Rights and Stream Method for users
- FTP backup of recordings
- Setting standard language (German or English)
- Presentation of the Start Page, size of Stream
- Remote Access without Dynamic DNS or router configuration
- Stacking configuration (combine up to 6 C-MORs with up to 90 cams)
- System reboot and Shutdown
- Software update and camera model update
- License Upgrade
- If activated, Barionet Alarm connection

The following sub chapters will describe you the details of the different configuration options.



3.1.1 System Name

Under **System Name** you can find the current system name of this C-MOR. The default system name is "C-MOR". Special characters should be avoided when setting up the system name.

System Name	open/close
The System Name is used in various parts and used in emails sent by this C-MOR. It is important to set the System Name.	
System Name: C-MOR	
Save System Name	

Mainly, the system name is used for easily distinguish your C-MORs from each other if you have more than one in operation. The system name is also used in all emails all sent from C-MOR and in various places in the user interface.

3.1.2 Change IP Settings

Under **Network Configuration** the current network configuration of C-MOR is displayed. There you can change the IP address settings of C-MOR, network mask, standard gateway and DNS server. The changes are immediately active, meaning that you can only reach C-MOR over the newly defined IP address. C-MOR continues working at that point!

Network Adapter 1:

IP Address:	192.168.1.2	
Network Mask:	255.255.255.0	
Gateway:	192.168.1.1	
DNS Server 1:	8.8.8	
DNS Server 2:	192.168.1.1	
DNS Domain:	c-mor-video.com	

By clicking "Change IP Settings" the following entry mask appears for adjustment of IP settings:

IP Address:	172	. 20	. 1	. 234
Network Mask:	255.2	55.255.) 🔻	
Gateway:	172	. 20	. 1	. 1
DNS Server 1:	8	. 8	. 8	. 8
DNS Server 2:	172	. 20	. 1	. 1
DNS Domain:	c-mor-	-video.c	om	

After executing "Save IP Settings" C-MOR cannot be reached any more.

By entering the new IP address in the address field of your browser, C-MOR can immediately be reached again.

If you want to reset your IP Settings to default configuration you can choose the Button "Reset IP settings".

Network Configuration

The network configuration has been saved.

IP Address:	172.20.1.234
Network Mask:	255.255.255.0
Gateway:	172.20.1.1
DNS Server 1:	172.20.1.1
DNS Server 2:	8.8.8.8
DNS Domain:	c-mor-video.com

Note:

Please take your time when changing the IP address!

C-MOR will immediately continue working under the new IP address!

Uncontrolled activation/deactivation can lead to data loss and other failures!





3.1.3 Email Alarm Configuration

In the next field it is possible to enter your email address. All emails generated by C-MOR will be sent to the address defined. After having entered and saved an email address and relay host it is possible to send a test mail to check if the configuration is correct.

Since C-MOR Version 4.11 PL10, it is possible to enter more email addresses. You have just to separate them with a comma.

Besides this function there is the possibility to enter settings for the SMTP authentication. SMTP authentication covers the incoming mail server, user name and password that allow the sending of emails over the mail server of your provider. Many email providers use this technology in order to ensure that the sender of an email is authentic. Another setting which may be required by your provider is SSL encryption. Simply enable this feature by clicking on the checkbox. Make sure the select TCP-Port is set correctly. The standard port for not encrypted emails is 25 (SMTP). The standard port for SSL emails is 465.

Email Alarm		(open/close)
All emails that are generated by the sys settings on the relay host define the se		e email addresses for camera alerts are stored in the camera configurations. The
Email Alarm Address:	cmoruser@customer.com, cmor2user@custor	
Relayhost:	mail.customer.com	
TCP-IP-Port:	465	
SMTP authentification activated	Ø	
SMTP SSL Communication activated:	X	
Username for SMTP authentification:	cmor	
Password for SMTP authentification:		
SMTP Sender Address:	cmor@customer.com	

3.1.4 Set Time

Here it is possible to adjust time and date. In order to make sure that the recordings of C-MOR have the correct time stamp it is necessary to set the exact time and date.



Set Time				
Time: 17:37 Date: 12.10				
Time: 17	: 37	: 47	(Hours:Minutes:Seconds)	
Date: 12	. 10	. 2015	(Day.Month.Year)	
Set Time	and Date			

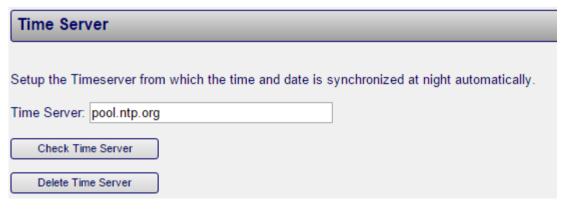
3.1.5 Configuration of Time Zone

Here the user is able to set the relevant time zone.

Configuration	of the Tin	ne Zone	_
Time: 17:43:40 Uhr Date: 12.10.2015 Select new Time Zo	one:		
America ▼ No Save Time Zone	1977	T	

3.1.6 Time Server Configuration

Over this menu item the automated configuration of the time for C-MOR can be carried out. The supported time protocol is Network Time Protocol (NTP).



Please note:



When setting this option please make sure that the internet connection to the time server is always active. In case the time server cannot be reached or delivers wrong data, the time on C-MOR will not be correct.

Examples for time servers:

- ntp-1.vt.edu
- ntp-2.vt.edu



3.1.7 Activation and Deactivation of Recordings

Under this menu item recordings for the individual cameras can be activated and deactivated. This is the same function as on the respective camera configuration page.

Start/Stop Recordings
Recording Camera1: activated Stop Recording
Recording Camera2: deactivated Start Recording
Recording Camera3: deactivated Start Recording
Recording Camera3: deactivated Start Recording

3.1.8 Storage Time of Recordings

By setting the storage time it is defined after how many days C-MOR recordings will be automatically deleted. Deletions by C-MOR are carried out at night-time. The deletion includes all types of recordings, motion detection recordings, single frames and fast motion recordings. This settings can also be found on respective camera page.

Storage Time of Recordings	_		_
Camera 1: delete Recordings after 10	▼ days	Save	
Camera 2: delete Recordings after 10	▼ days	Save	
Camera 3: delete Recordings after 10	▼ days	Save	



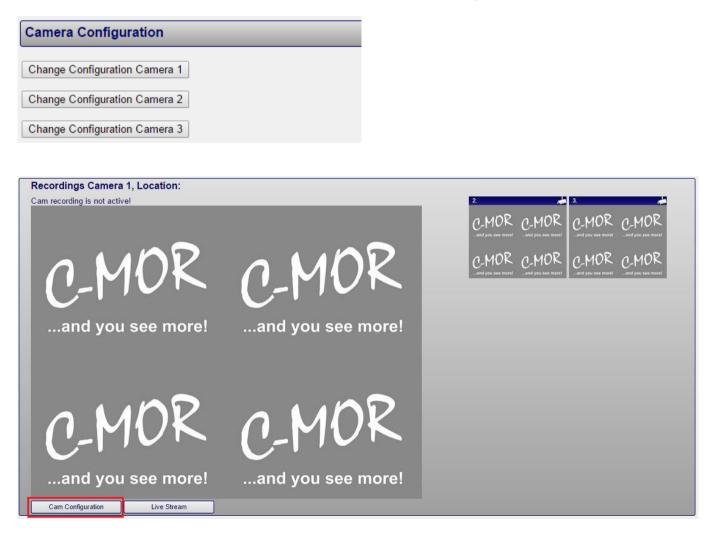
3.1.9 Automated Deletion of Oldest Recordings

Irrespective of storage time settings, recordings can be automatically deleted. This enables C-MOR to continue recording instead of stopping when storage space is running low. Please be aware that automated deletion can lead to recordings being deleted too early and important video material getting lost.



3.1.10 Change Camera Configuration

For each individual camera an own configuration page is available where parameters can be set. First you can visit the page "System Administration" where you will find "Camera Configuration". Or you can click on the button the requested camera and then the link "Cam Configuration".



Please find more information on camera configuration in chapter 3.2.





3.1.11 User Administration

Under this section it is possible to create and delete different users and create and change passwords. By clicking the respective button you will be forwarded to the user administration page where it is possible to enter the password.

User Administration	
Selection User admin New User: Change Password/Create User	Selection User Delete User

Please note:

Only administrators are able to delete recordings or change the settings of the C-MOR configuration.

3.1.12 Setup User Settings and Permissions

For every created user you can setup different configurations. As desired by the administrator, users can change the configuration of the **System Administration** or not.

The following parameters can be changed by the user, if a user is selected to configure the own profile:

- The user is able to change the own password
- The user is able to view the Quickstart page
- The user is able to view the Recordings page
- The user is able to view the System Status page
- The user is able to view the link to the camera
- The user is able to setup the stream mode
- The user is able to setup the speed of the Script-Stream Mode
- Video recordings and web interface are optimized for MacOS
- The video recordings tables are displayed with an extra preview button for tablet computers

Access to the single camera views and to the recordings can be restricted to single users. Different user can have access to different cameras and/or camera recordings. The live stream type, Java stream, MJPEG stream or script stream, can be set by the user self if permitted by the administrator.



In the System Administration menu under User Camera Rights Administration and Live Stream Mode Settings the administrator can setup the camera and stream permissions. Select the user to modify and click User Configuration.

User Camera Rights Administration and Live Stream Mode Settings
admin User Configuration
Manage User Settings
Selected User: admin
admin v Select User
User Rights and Settings in the Web Interface
The user has the permission to change the own password
The user has the permission to view the Quickstart page
The user has the permission to view the Recordings page
The user has the permission to view the Systemstatus page
The link to the camera will be viewed to the user
The user has the permission to set up the stream mode and the video playback format self
Video recordings and web interface are optimized for MacOS
The video recordings selection tables are displayed optimized for tablet computers
Live Stream Speed in Script-Stream Mode



The lower part of the User Configuration page:

Managa Camara Big	hta
Manage Camera Rig	nts
Permit Camera Access	Permit Recordings Access
Camera 1 🗹	Camera 1 🗹
Camera 2 🗹	Camera 2 🗹
Camera 3 🗹	Camera 3 🗹
Save Configuration	
stream Type Configu	uration
Live View as Script-St	tream
 Live View as Script-St Live View with Java-Pl 	
	layer

Further you can set up the live stream Speed, the camera rights and the stream type for the chosen user.

Select the cameras that can be accessed by the user. If a camera is completely locked for the user, the access to the recordings is locked, too.

If the user should have access to the live view of the camera but not to the recordings, disable the mark in **Permit Recording Access** at the relevant camera.



3.1.13 FTP Server Configuration

By the use of the so-called File Transfer Protocol (FTP) recordings can be automatically copied to a FTP server. A FTP server can be a desktop PC with Windows operating system and FTP server software. By the help of FTP long-term storage or tape backup can be carried out.

Besides easy FTP server storage, C-MOR can also delete recordings after the copy process.

FTP Server Configuration				
FTP upload activated before deletion?				
FTP Server Address:	10.10.1.1			
Directory:	/data/	(please add closing "/")		
Username	ftpdemo			
Password	•••••			

Use the "Recordings" menu to manually upload recordings to the FTP Server

a MDR	IP Video Surveillance V4.11 admin Disk Usage: 1%	Motion Detection is on	Email Alarm is on Script-Stream	<u>▼</u> = 3%				
C-PICK	Start Menu 🔯 Quickstart Recordings	System Administration	System Status	Logout				
and you see more!	Cam 1 Cam 2 Cam 3							
You are in the		Recordings Overview						
Recordings Menu								
Selection of Recordings	Recordings Selection for Viewing or Saving							
Selection of recordings for specific time periods, cams and recording types.	Start Hour: 0 Vear: 20 Vear: 2015							
Admin Mode: FTP-Server	End Hour: 24 V Day: 20 V Month: 02 Vear: 2015 V							
Selection of recordings that have to be manually uploaded to the already configured in FTP server. The FTP server data are configured in the System Administration.	Cam 1 Cam 2 Cam 3							
Admin Mode: Deletion of Recordings	Recordings by Motion Detection							
Selection of recordings for manual	Permanent Recordings							
deletion previous to the automatic deletion by the system.	Display Recordings							
Admin Mode: Deletion of Single Recordings	Save Recordings to FTP Server	. <u></u>		i				
Recordings of the individual cams will be displayed and can be specified for the deletion of individual sections.	Start Hour. 0 V Day: 20 V Month: 02 V Year. 2015 V							
	End Hour: 24 V Day: 20 V Month: 02 Vear: 2015 V							
	Cam 1 Cam 2 Cam 3							
	Recordings by Motion Detection							
	Permanent Recordings							
	Upload Recordings to FTP-Server							
	(Saving may take some minutes. Please do not cancel this process!)							
	It is only possible to upload recordings that have been recorded more tha	n one hour ago and are no longer involved in a current	t recording.					



3.1.14 Language

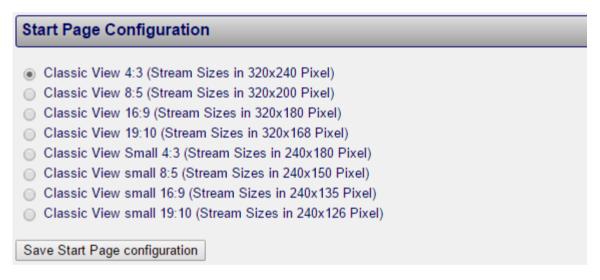
The C-MOR application is available in German and English. By using this menu item the standard language can be set, which will then be used automatically as soon as you log into C-MOR. Alternatively it is possible to choose the language by clicking on the country flags on the top right edge in the menu.



If you want to temporarily change the language you can go to the upper right side of the Start Page. Here you will find the flags of the supported languages. Choose one of the flags to choose the language you prefer.



3.1.15 Start Page Configuration



Here you have the option between different stream sizes to choose.



3.1.16 Remote Access

With the C-MOR remote access it is possible to access C-MOR without dynamic DNS. This function is required if dynamic DNS can't be used or if it's not possible to configure port forwarding on the Internet router where the C-MOR is connected. There may be many reasons that the remote access from C-MOR is required and this is just another, easy option to access C-MOR over Internet.

The remote access is implemented through a server in C-MORs (za-internets) data center. The access requires a monthly fee. Please find more info in the C-MOR web, <u>www.c-mor.com</u>.

The configuration for the remote access can be found in the "System Administration" configuration page of C-MOR video surveillance.

Remote Access Configuration	open/close
This configuration menu performs the remote access configuration.	
Internet Remote Access is not active.	
Activate Remote Access	
HTTPS Transfer Server Port 0 (automatically assigned) Username Password	
To get remote access via the Internet to your C-MOR, you must first register a paid subscription. This registration is available at www.c-mor.com.	
If the remote access is set up you can reach your C-MOR via an address like https://remote.c-mor.com/64444. The so-called port number (example 64444) is	always reserved

The following data are required to set up remote access:

Server:	The server name which connects to your C-MOR
Username:	The username for the remote access, cmorremote <xxxxx></xxxxx>
Password:	The password for the remote access

The data above, as well as the TCP-IP port are assigned by C-MOR and can't be changed. The TCP-IP port will be assigned automatically and read over Internet. Customers receive the data above by email. The remote access address is a combination of the server name and the port. If the server name e.g. is "remote.c-mor.com" and the port "10001", the web address is <u>http://remote.c-mor.com:10001</u>.

Additional it is possible to select whether the remote access is done via SSL (HTTPS) encryption. If SSL is enabled, the web address is <u>https://remote.c-mor.com:10001</u> instead <u>http://remote.c-mor.com:10001</u>.

and awarded for you individually!



Enter the data for the remote access and click "Save Configuration". Alternatively SSL (HTTPS) encryption can be selected:

Remote A	ccess Configuration			open/close
This configura	tion menu performs the remote ac	ess configuration.		
Internet Remo	te Access is not active.			
Activate Re	mote Access			
HTTPS Trans	fer 🗌			
Server	remote.c-mor.com			
Port	0 (automatically assigned)			
Username	cmorremote10001			
Password	•••••			
Save Confi	guration			

To get remote access via the Internet to your C-MOR, you must first register a paid subscription. This registration is available at www.c-mor.com.

If the remote access is set up you can reach your C-MOR via an address like https://remote.c-mor.com:64444. The so-called port number (example 64444) is always reserved and awarded for you individually!

The saved configuration is displayed after clicking "Save Configuration":

C-MOR	IP Video Surveillance V4.11 admin Disk Usage: 3%	1. 15		Motion Detection is on		Script-Stream	✓ == 31%
	Start Menu	Quickstart	Recordings	System Administration	System St	tatus	Logout
and you see more!	Start menu Lag Cam 1 Cam 2 Cam 3 Remote Access Config Following configuration for Remote Server remote.c-mor.c Port 0 (Port not auti Username cmorremote100 Password ************************************	uration te Access has been om matically read)		System Ramminstration	Jacob		
	Internet Remote Access is not a	ctive. Configure Remote A	ccess				



Please notice that the remote access is not enabled yet. Please click on "Activate Remote Access" to enable it:

C-MOR	IP Video Surveilla V4.11 admin Disk Usage: 3%		19		Motion Detection is on	Email Alarm is on	Script-Stream	✓ == ¥K
	Start Menu		Quickstart	Recordings	System Administration	System	Status	Logout
and you see more!	Cam 1 Cam 2	Cam 3						
	The Remote Access ha	s been ad	ctivated!					
	Deactivate Remote A	Access	Configure Remote	Access				
	Start Page							

If the data was entered correctly, the remote access is now active and the function can be tested by calling the address <u>http://remote.c-mor.com:10001</u>. The password prompt from your C-MOR will appear.

Notice!

If you can't log in as expected, it might be possible the wrong port is specified in web address. In this case you try to log into the wrong C-MOR and the password will not work. If no port number is displayed in the configuration the server, username or password has an error. Please verify the data in this case.

Please notice also, that the remote access data can be used on one C-MOR only and does not work on more than one device at the same time.

Please call the remote access configuration again to verify the data:

Remote A	ccess Configuration		open/close
This configurat	tion menu performs the remote ac	cess configuration.	
Internet Remot	te Access is active.		
Deactivate F	Remote Access		
HTTPS Transf	fer 🗌		
Server	remote.c-mor.com		
Port	0 (automatically assigned)		
Username	cmorremote10001		
Password	•••••		
Save Config	guration		

To get remote access via the Internet to your C-MOR, you must first register a paid subscription. This registration is available at www.c-mor.com.

If the remote access is set up you can reach your C-MOR via an address like https://remote.c-mor.com:64444. The so-called port number (example 64444) is always reserved and awarded for you individually!



Click on "Deactivate Remote Access" if you want to disable the remote access:

The Remote Access has been deactivated!					
Activate Remote Access	Configure Remote Access				
Start Page					

3.1.16.1 Remote Access Limitations

C-MOR remote access only enables users to access the C-MOR self. The direct access to connected IP cameras is not possible since the remote access is limited to one TCP-IP port. Each direct camera access (the camera web interface) requires an extra TCP-IP port. C-MOR offers extended remote access configurations to access also the cameras. Please contact C-MOR directly if this is required.



3.1.17 Stacking function - interconnecting several C-MOR units

By "stacking" in the technical area, the interconnection of individual, standalone units is understood to be a common, central management unit. The C-MOR Stacking is an interconnection of the configuration level. A separate, physical separate network connection is necessary only for large stacking configurations.

The stacking function of C-MOR allows the interconnection of up to 6 C-MOR units over one single management interface. This stacking works with virtually installed C-MOR video surveillance systems, too.

3.1.17.1 Stacking configuration of the C-MOR Master

First install the stacking master software update prior configuring C-MOR stacking. The master functionality is available as a separate update. After the successful installation the C-MOR Stacking configuration shows up in the "System Administration" menu:

Stacking Master Configuration

This configuration menu performs the stacking master configuration.

Stacking Master Configuration

Additional C-MOR units are entered and activated in this configuration menu. Up to 5 other devices are configurable. In the fields for the IP addresses or DNS names, enter the additional C-MOR devices and set the hook for "Active". Optionally set if the individual units are opened in new tabs or windows in a web browser.

Important:

The C-MOR units must be available over network or Internet.



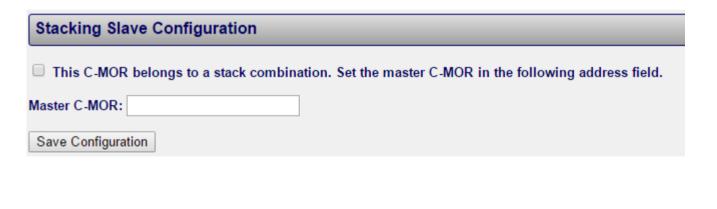
After clicking "Save configuration" all active units are availability on top of the existing menu bar.

	Stackin	ng Configur
acking com	bines multiple C-MOR to one un	it. Multiple C-N
Ū.	·	
Stacking	enabled	
Open link	ts to stack units in new tabs or	windows (refer
Stack Unit	IP address/DNS name	Active
Unit 2	172.20.1.88	
Unit 3	172.20.1.77	
Unit 4	172.20.1.77	
Unit 5	192.168.6.56	
Unit 6	17.20.1.211	
Save Co	onfiguration	
Start Page		

If individual units should be removed from the stacking, so only mark the unit not "Active" and the respective unit is removed after saving the new configuration.

3.1.17.2 Stacking configuration of the C-MOR Slaves

Condition for the stacking feature is that on all the slaves the master C-MOR with login and password are the same. This must be applied to the respective slave unit. The settings are made in the "System Administration". The slave configuration is available in any C-MOR without additional module installation.



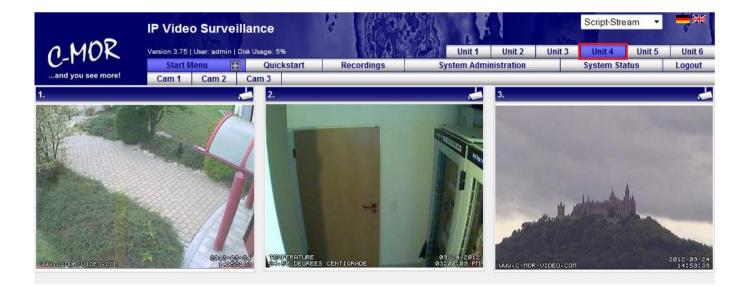
3.1.17.3 Stacking Live View function

After the stacking feature is configured and enabled in the user interface, the additional buttons appear at the top. With these buttons, "Unit 1-6", the connected C-MOR is reached. The currently active unit is color coded and the live view is displayed in the active window. Up to 90 cameras are easily accessible with this function over this central administration.

View of the central administration with the buttons to the other units:



View of the "Unit 4" after switching from the "Master Unit":



All units can be accessed via an IP address or domain name. The credentials must be entered only once. This allows users to manage individual C-MORs comfortable and convenient.



The stacking master function is not part of the standard delivery of C-MOR. Separate software modules needs to be installed for all master devices separately and must be licensed and appointed.

Please note the following limitations of the stacking capability:

User must be created on each C-MOR unit with the same name and password. The user IDs are not synchronized between master and slave. After a single configuration no other changes for the operation must be observed. Users, for example, will have access only for "Unit 1", but not for "Unit 2".

3.1.18 System Restart

In case of unexpected problems, using this menu item you can restart C-MOR.

System Restart
By pressing the button "Restart system" the C-MOR system will be restarted on the spot. The Restart process will take approximately 3 minutes!

System Restart

3.1.19 System Shutdown

In case you have to switch off C-MOR due to administrative work, please proceed under **System Shutdown**.

System Shutdown

By pressing the button "Shutdown System" the C-MOR system will be shut down on the spot.

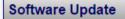
System Shutdown



3.1.20 Software- and Camera Updates

The software of C-MOR is constantly being expanded and improved. Known issues have been fixed and the update will be provided to customers via the internet.

About updating functions can C -MOR simply be brought up to date via internet. Here are two functions: Software Update and the Camera Update.



With this function you can update your C-MOR. Please select between updating the C-MOR Software and the camera database.

Software Update Camera Update

3.1.20.1 Software Updates

This menu offers you the opportunity to update your software version up to date. First you have to deactivate all of your cameras. Therefore you will find two possibilities. First you can go to the menu "System Administration". There is a function called:

_
Stop Recording
Start Recording
Start Recording
Start Recording
Start Recording
Start Recording



Or you go directly to "Software Updates" There is also a button which deactivates all of your activated cameras just with one click.

C-MOR Updater						
	Please de-activate all cameras prior starting the update procedure! Some updates only can be installed when all cameras are stopped.					
All cameras ar	e activated. Please deactivate all cameras to proceed with the update!					
Deactivate al	Il cameras					
Please fill out	this form to list the availables updates.					
Username:						
Password:						
Server name:	update.c-mor-video.com					
Directory:	/updates/v4/c-mor-v4-4.12					
Updates are installed without a proxy!						
List available updates						

If you have deactivated all cameras, you can download the newest updates of C-MOR.

Important!

C-MOR needs free access to the internet to download and install the updates. For this, C-MOR supports the use of a web proxy or HTTP. Before you update your software you have to check in the "System Administration" the proxy settings are correct. Please make sure which update you import. Depending on the update a specific update sequence must be observed. When the installation has failed, this can lead to failure of C-MOR.

If you have started the software updates, so the update data will be requested from the web interface of C-MOR. Now you have to insert your username and your password from your datasheet (C-MOR Subscription) the name of the server and the directory are given from the system. More information about the updates and functions you can receive from the Support Forum where you have to be registered: http://www.c-mor.com/video-surveillance/forum/



Please fill out this form to list the availables updates.

Username:	Username
Password:	*****
Server name:	update.c-mor-video.com
Directory:	/updates/v4/c-mor-v4-4.12

Updates are installed without a proxy!

List available updates

After you click on the button "List available updates", then a list of updates will appear. If there are no updates available, you will be redirected to the following page:

Available C-MOR updates, c-mor-v4, Version 4.1203:			
ID Version	Description		
No updates for this C-MOR version were found.			
Update aborted!			

But if there are updates available you will redirected on following page:

Available C-MOR updates, c-mor-v4, Version 4.1203:

ID	Version	Description
1	4.1204	Update to Version 4.12PL04
2	4.1204	Update to Version 4.12PL04
3	4.1204	Update to Version 4.12PL04

Updates found: 3

The download and installation of the updates may take some minutes time. Do not interrupt the installation process once it was started!

Software Update Disclaimer

1- Limitation of Liability. NOTWITHSTANDING ANYTHING ELSE IN THIS AGREEMENT OR OTHERWISE, C-MOR WILL IN NO EVENT BE LIABLE WITH RESPECT TO ANY SUBJECT MATTER UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL, CONTRACTUAL OR EQUITABLE THEORY FOR: (I) ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND WHETHER OR NOT ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES; OR (II) DAMAGES FOR LOST PROFITS OR LOST DATA; OR (III) COST OF PROCUREMENT OF SUBSTITUTE GOODS, TECHNOLOGY OR SERVICES. NOTWITHSTANDING ANYTHING IN THIS AGREEMENT TO THE CONTRARY OR THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITATION OF LIABILITY OR LIMITED REMEDY, C-MOR'S ENTIRE AGGREGATE LIABILITY ARISING FROM OR RELATING TO THIS AGREEMENT OR THE SUBJECT MATTER HEREOF, UNDER ANY LEGAL THEORY, WHETHER IN CONTRACT, TORT, INDEMNITY OR OTHERWISE, SHALL BE LIMITED TO THE AMOUNTS RECEIVED BY C-MOR UNDER THIS AGREEMENT WITH RESPECT TO THE PARTICULAR TRANSACTION GIVING RISE TO THE CLAIM REDUCED BY 1/24 OF THE PRICE PAID BY RESELLER FOR EACH MONTH SUCH APPLICABLE END USER HAS HAD THE PRODUCT.

2- C-MOR does not warrant that the use or operation of this product will be error free, nor does it warrant that any data stored on the product will remain accessible or uncorrupted. To protect against accidental data loss, back up your data frequently to multiple types of storage media.

Software updates are improvements and extensions, but not fundamentally new software. By installing the update, the warranty of this system is not renewed or extended. Please note that software updates can affect the system performance.

Accept	Terms	and	Conditions	for	software	update	and	Disclaime	



To install the updates first you have to accept the disclaimer, just put a check mark in the box provided.



After that you can click on the button "Download and install updates now" to start the updates. All affected files are downloaded and installed now. This process may take several minutes to complete. If the update was successful, it is indicated in the following website:

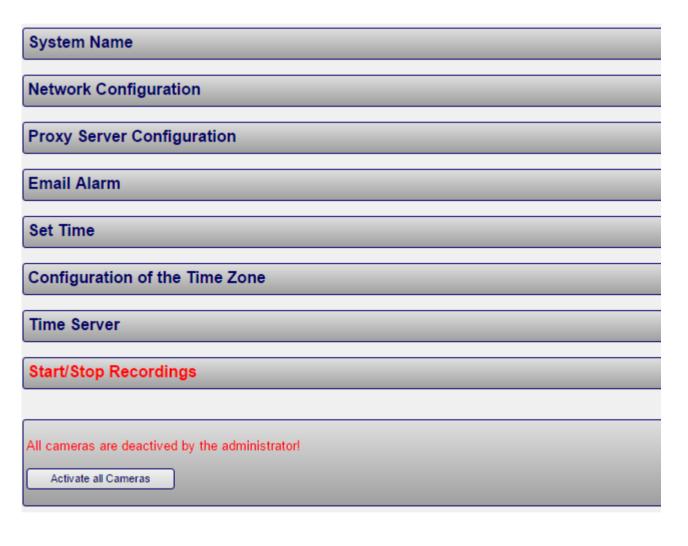
Number of installed updates: 1

The updates have been installed. C-MOR has to be rebooted after each update! Activate the cameras after the restart again.

Restart System

Depending on the type of update C -MOR must be restarted. Whether this is necessary is specified with the update instructions in the C-MOR web, or forum.

Once the update is complete, with or without restart, you have to activate your cameras in the "System Administration" again. Thus, the update process is finished.



Note:

This functions just activates that cameras, which were already active before the update.



3.1.20.2 Camera Update

Software Update

With this function you can update your C-MOR. Please select between updating the C-MOR Software and the camera database.

Software Update Camera Update

C-MOR continuously recorded new cameras. If your camera model may not be listed in C-MOR, maybe a camera-update will help you. With a camera update the latest camera database is loaded via the internet.

Available C-MOR Camera updates, c-mor-v4, Version 94:

ID	D Description		
1	Update camera types 2015-06-23 added various IP Cameras		
3	3 Update camera version file		

Updates found: 2

The download and installation of the updates may take some seconds time. Do not interrupt the installation process once it was started!

Download and install updates now

Just click on the button "Download and install updates now" after that the camera database will be updated. In contrast to the software update, you don't have to deactivate the cameras first.

C-MOR Updates installation

Do not stop the installation and wait until it shows the installation has finished.

1. 94 Update camera types 2015-06-03 added more Tenvis IP Cameras

3. 94 Update camera version file

Number of installed updates: 2

The camera updates have been installed!

Start Page



3.1.21 License Upgrade

License Upgrade

With this function you can activate up to 15 cameras on this C-MOR!

License Upgrade

You can upgrade each C-MOR up to 15 cameras, but you must remember that the processor performance will be affected. The built-in processors are designed in each case for the different C-MOR models.

In order to perform a license upgrade, you will get from us the following information: user name, password, and a license key.

As like the software update, C-MOR needs at this point unrestricted access to the Internet.

License Upgrade			
6 cams licensed			
Please be careful using this program. It rewrites the license files without any warnings! Make sure C-MOR has free access to the Internet! Activate the C-MOR proxy if necessary.			
Usemame:			
Password: License Key:			
License Upgrade			

3.1.22 Backups

C-MOR offers different options to manage camera settings. These options are

- Download and save camera settings on a local computer (PC/Mac)
- Restore camera settings from a local computer
- Transfer camera settings between cameras
- Delete restored (uploaded) camera settings

C-MOR generates automatically up to 5 backup sets per camera. These backups are always generated on saving the camera settings. The oldest set is automatically deleted when the 6th backup set is generated. C-MOR will hold always a maximum of 5 backup sets for each camera.



3.1.22.1 Backup Management

The menu for the backup management can be found on the page "System Administration":

Backups
In this management page backups can be listed, downloaded or uploaded.
Backups

A click on the button "Backups" opens the Backup Management page:

Backups				
Available Camera Backups				
backup_cam1_2015-05-22-13-11-07.cbkf				
backup_cam1_2015-05-11-09-09-26.cbkf Download				
backup_cam1_2015-05-11-09-09-13.cbkf Download				
backup_cam1_2015-05-11-09-08-14.cbkf Download				
backup_cam1_2015-05-11-09-05-04.cbkf Download				
Upload Camera Backup Local Camera Backup File: Durchsuchen_ Keine Datei ausgewählt. Upload (Has to be a CBKF File! Backup file name will be listed as 'upload_FILENAME.cbkf.)				
Uploaded Backups				
Start Page				

The Backup Management page exists of 2 parts. The first part lists the automatically generated backups of each camera. Each backup can be downloaded by clicking the "Download" button. The second part includes the function to upload backups manually. Such backups maybe were transferred from another C-MOR.



3.1.22.2 Restore Camera Backups

Existing camera backups on C-MOR can be restored into any camera settings. If a camera backup from another system needs to be restored it must be uploaded first. Please verify on the page "backup.pml" if the desired backup exists. Upload if it does not exist. Use the function "Upload Camera Backup" to load a local backup on C-MOR:

The function to restore a backup into a camera is located in the camera settings menu in the top area directly beneath the PTZ settings:

backup_cam1_2015-05-11-09-05-04.cbkf v Load Backup Data Backups

The restore function selects automatically the first available backup. Be aware and do not click "Load Backup Data" if the selected backup is not the one you want to restore. Simply leave the page without saving if you have loaded the backup in error. Click into the backup drop down menu to get a full list of all available backups with name of the camera and the date and the time:

backup_cam1_2015-05-11-09-05-04.cbkf 🗸	Load Backup Data	Backups
backup_cam1_2015-05-11-09-05-04.cbkf		
backup_cam1_2015-05-11-09-08-14.cbkf		
backup_cam1_2015-05-11-09-09-13.cbkf		
backup_cam1_2015-05-11-09-09-26.cbkf		
backup_cam1_2015-05-22-13-11-07.cbkf		

Click on "Load Backup Data" to restore the data from the backup you want to restore. You have now the option to optimize the settings. Click on the button "Save Configuration" to store the restored data permanently.

If the desired Backup-Data is not in this list, you can click on the button "Backups" to upload your desired backup.

Notice:

Please notice that the camera backup does not include PTZ settings!



3.1.23 Stream-Type

For each user the display method of the Livestream can be selected. This Setting is significant for the usage over Internet or the local network, or which browser you use. In addition it is not always possible to use Java.

To use the desired Stream-Type, the Administrator can setup the Settings in the **System** Administration or the user self, if the user selects the **System Administration** page. The administrator can change this setting for each user as described in this manual.

Stream Type Configuration

- Live View as Script-Stream
- \bigcirc Live View with Java-Player
- Live View as MJPEG-Stream
- Save Live View Mode

If the process was successful the following Information should appear:

Live view mode for user ad	dmin set to Script-Stream.
Start Page	

With the Button "Start Page" you will be redirected to the Live View on the Start Page.

To swap short-term to another Stream-Type you can use the dropdown Menu on Start Page to choose the desired Mode.



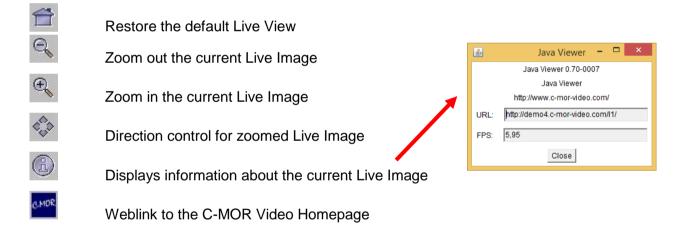
Script-Stream Script-Stream Java-Stream MJPEG-Stream



3.1.23.1 Java Mode in Live View

If you have JAVA-Mode enabled you can choose a list of different symbols to call more Features. To view this list, simply move the mouse, e.g. on the Start Page, over the Live image from the camera. Now you have the following choices:







3.2 Camera Configuration

3.2.1 General Description of Configuration Options

In order to configure a camera the following settings can be carried out:

- Define description of the camera's location
- Activate / deactivate recordings
- Define storage time of recordings
- Define camera network data
- Configuration of camera type (Axis, Mobotix, Panasonic, Sony, etc.)
- Threshold for motion detection

This function increases or decreases the sensitivity threshold to activate motion detection.

• Fast Motion Permanent Recording

Besides motion detection it is possible to create a permanent recording. This mode generates a movie with images that are recorded in the given interval.

This interval shows when a picture is taken. If you want a real-time recording, set for example the interval to "1 second". This means that every second a new image is recorded.

East Matter			Desides method detection it is mercified to exceed a normalized
Fast Motion	1. Country 1		Besides motion detection it is possible to create a permanent
Permanent	1 Second •		recording. This mode generates a movie with images that are
Recording	1 Second	▲	recorded in the given interval.
	Off		
	1 Second		
	2 Seconds		
	3 Seconds		
	4 Seconds		
	5 Seconds		
	6 Seconds		
	7 Seconds		
	8 Seconds		
	9 Seconds		
	10 Seconds		
	15 Seconds		
	20 Seconds		
	30 Seconds		
	45 Seconds		
	60 Seconds		
	2 Minutes		
	3 Minutes		
	4 Minutes	-	
I			



• Recording length of time-lapse recordings

This parameter defines the length in time after a new recording will be started for time-lapse recordings. If set to Hourly each hour a new recording will be generated.

• Enable JPEG images in motion detection mode

In motion detection mode the recording is in MPEG format. This feature enables JPEG images to be generated as well. These images can be easily saved as a ZIP archive.

• Enable JPEG images in scheduled recording mode

In scheduled recording mode the recording is in MPEG format. This feature enables JPEG images to be generated as well. These images can be easily saved as ZIP archive.

• Scheduled recording mode - JPEG image intervals

When the feature generating JPEG images is enabled, this function sets the time interval between when each JPEG image is generated.

• Number of images Pre-Recording

In motion or event detection mode, sets the number of frames recorded pre-event.

• Number of images after Recordings

In motion or event detection mode, sets the number of frames recorded post-event.

• Frames per second (fps) in motion detection mode

This defines the number of images per second during the recording with motion detection. Please select this parameter carefully. The interval can be set between 1 frame every 3 seconds up to 25 frames per second. You must be careful how high the maximum number of frames per second can be supplied by the camera. If the camera can supply up to 5 frames per second, then C-MOR isn't able to record in a higher interval.

Please keep in mind that a too high number of frames with a very high resolution can overload the system.

• Rotation of Image

The cam can be installed at an angle of 0, 90, 180 or 270 degrees and this function allows the orientation of the viewed image to be rotated for normal viewing. A 180 degrees recording makes e.g. sense in case the cam is installed on the ceiling down sided.

• Maximum Time of recording for Motion Detection

Sets a limit to how long recording takes place in Motion or Event Detection mode irrespective of whether the event that triggered the recording still exists or not.

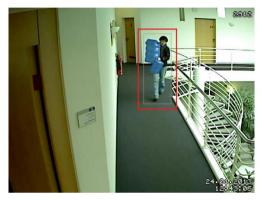


Recording Mode

The recording mode switches between motion detection and permanent recording (not timelapse). When the permanent recording mode is activated, motion is no longer detected and not individually recorded (no more alarming is possible!). The duration of the recordings have the length which is set for motion detection.

Display Frame around changed Pixels

This parameter defines whether a frame will be displayed around changed pixels. This is very helpful in case the threshold for the motion detection for the cam image is defined.



Motion detection with frame

• Display the Number of changing Pixels

This feature shows the number of changing pixels in the top right corner of the video. This parameter is very useful when optimizing motion detection parameters.



Motion detection with number of changed pixels

Display Text with time and date in cam image

Feature for the activation and deactivation of the display of time and date in the cam image.

Automatic email alarm during Motion Detection

Feature for the activation and deactivation of the email alarm in case motion has been detected by the cam. A plain text email will be sent (excluding image or movie attachment).



• Email address for alarm email

This is the email address alarm mails are sent to.

Please note: in case of a lot of motion and many recordings that are effected during motion detection your mailbox might reach its storage limit very fast and cannot receive emails anymore!

• Attach Motion Detection recordings to alarm email

This feature enables video images to be attached to the event email alert.

• Mobile device compatible Email attachments

Enable this feature if email attachments are sent to a mobile device.

• Direct Cam Link

Network Cams might be linked directly over C-MOR. This setting is needed when network cameras are not located at the same location and are only accessible behind a router through the internet.

• Text on left side in cam picture

This optional text will show up in the left lower corner of the camera picture. If this field is empty no text will be shown.

• Show picture text in double size

The text in the camera picture can be shown in double size. This is useful for big pictures or special usage of the pictures.

• Web camera picture quality

This value defines the video quality in percent for the data transfer of the camera picture to C-MOR. The default value is 50%. Changing this parameter may cause a high system load which can cause system failures.

• JPEG image quality

This setting defines the quality of the JPEG images stored on C-MOR. The default value is 100% - highest quality.

• Time between two events

Time in seconds without motion after a new motion movie is recorded.

• Automatic camera image quality (bitrate)

This feature automatically adjusts the quality of the image transferred from the video camera to C-MOR. A value of 2 represents the highest image quality and requires the most storage capacity. Higher values reduce data storage capacity requirements by decreasing the image quality.



• Manual bitrate for recordings

This feature manually sets the quality of the image transferred from the video camera to C-MOR manually. A value of 9999999 represents the highest image quality and requires the most storage capacity and bandwidth. Lower values reduce data storage capacity requirements by decreasing the image quality. This value should not set lower than 200000. This value is only active if the automatic value above is switched off (value 0).

• Minimum number of pictures with changes for Motion Detection

The number of pictures with changes to detect motion. The value 1 is capable in the most cases. This means only one picture is compared to detect motion.

• Sudden light intensity

This feature defines the percentage of the total video image area that has to experience a sudden light intensity change before triggering a recording event.

• Number of ignored Lightswitch Frames

The number of frames in sudden light indicates how many camera frames should be ignored in serial not triggering motion detection. This value is ignored if sudden light intensity is set to 0%.

Noise

Noise in the camera picture can lead to erroneous motion detection. With this parameter failures in motion detection are reduced.

• Deinterlacing

Enable this setting if using video cameras with deinterlacing.

• Number of Frames per Second in Live view

This setting configures the fps rate in live view mode. The higher the fps rate the higher the internet bandwidth requirement. This setting does not affect the fps rate in motion/event or permanent recording mode.

Setting of hour and day per week when recordings have to be carried out. This applies e.g. when recordings should only be carried out during nighttime at a store.

Time controlled recordings

The selected hours 0-23 display, when the recording on the individual weekdays takes place according to the selection:

Time (Hour)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Holidays	•	✓	•	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	•	✓	•	✓	✓	✓	✓	✓
Monday	•	✓	•	•	✓	✓	•	✓	•	✓	•	✓	✓	✓	✓	✓	•	✓	•	✓	✓	✓	✓	✓
Tuesday	•	✓	•	✓	✓	✓	•	✓	✓	•	•	✓	✓	•	✓	✓	•	✓	✓	✓	✓	✓	✓	✓
Wednesday	•	✓	•	✓	✓	✓	✓	✓	◄	✓	✓	✓	✓	✓	✓	✓	✓	•	✓	✓	•	✓	✓	✓
Thursday	•	✓	-	•	✓	•	•	•	•	•	•	•	•	•	✓	•	•	✓	•	•	✓	•	•	✓
Friday	-	✓	-	•	✓	✓	✓	✓	•	✓	✓	✓	✓	✓	✓	✓	✓	◄	✓	•	•	✓	✓	✓
Saturday	~	✓	-	•	•	✓	~	~	•	•	•	•	~	•	✓	•	~	~	•	•	✓	~	~	✓
Sunday	-	~	-	~	-	•	-	-	~	-	-	-	-	~	~	•	-	~	~	~	-	-	-	-
Save Time			ding)	l	Jns	ele	ct al			Sele	ect a	all											

Time-controlled motion detection

Definition of hour and day per week motion detection should be carried out.

• Time-controlled alarm emails

Define weekdays and hours in which alarm emails are sent.





• Transfer of timescale

Every timescale, even if time-controlled motion detection or time-controlled alarm emails is able to transfer to another timescale. Therefore you have to choose a timescale and commit your selection with "Load Time Table":

Time Table Motion Detection Camera1	~	Load Time Table
-------------------------------------	---	-----------------

If you want for example your camera 3 with the same settings like your camera 1, so you have first go to the configure site for your cam 3.

Recording by motion detecting and time

The selected hours 0-23 display, when the recording by motion detection on the individual weekdays takes place according to the selection:

Time (Hour)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Holidays	-	-	-	-	•	-	-	-	-	-	-	-	•	-	•	~	-	-	-	-	~	-	-	~
Monday	•	•	•	-	~	•	•	-	-	-	•	1	~				-	•	-	-	-	-		-
Tuesday	~	-	-	-	-	-	•	-	-	-	-	~	-	-	~	-	-	-	-	~	~	-	-	-
Wednesday	~	-	-	-	~	~	~	-	-	~	-	-	~	~	~	-	-	-	-	~	~	~	-	-
Thursday	~	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-
Friday	-	-	-	-	~	•	-	-	-	-	-	~	~	-	-	•	-	-	-	~	~	-	-	1
Saturday	-	-	-	-	-	~	-	-	-	-	-	~	-	-	~	-	-	-	-	~	~	-	~	-
Sunday	~	-	1	~	~	1	-	1	~	~	~	-	~	~	-	1	~	-	~	-	~	~	-	~
Time Table	Em	ail A	lar	m C	am	era	1		-	Loa	d Tir	ne T	able	ר										
Time Table	-	-		-141					• I	LUa	u 11	ne i	able	J										
Time Table	Carlot rt.c	and the second	the second second	Trine Late	100 C	distant on The other	the second		-															
Time Table	Em	ail A	lan	m C	am	era	3																	
Time Table	Mot	ion	Det	tect	ion	Car	nera	a1																
Time Table	Mot	ion	Det	tect	ion	Car	nera	a2																
Time Table	Mot	ion	Det	tect	ion	Car	nera	a3																
Time Table									-															
Time Table Time Table																								



With help of the drop-down menu you can choose the timescale you want. For example choose the "Time Table Motion Detection Camera 1":

Time Table Motion Detection Camera1 V Load Time Table

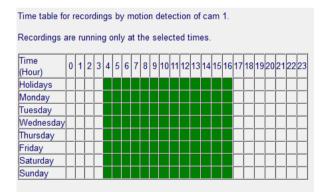
Now you have to confirm your selection by clicking in "Load Time Table", you can see that the settings are transferred:

Recording by motion detecting and time

The selected hours 0-23 display, when the recording by motion detection on the individual weekdays takes place according to the selection:

Time (Hour)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Holidays					✓	✓	✓	✓	✓	✓	✓	✓	✓	◄	◄	◄	✓							
Monday					✓	✓	✓	✓	◄	✓	✓	✓	◄	◄	◄	◄	✓							
Tuesday					✓	✓	✓	✓	✓	✓	✓	✓	✓	◄	✓	◄	✓							
Wednesday					•	•	•	•	•	•	•	•	•	•	•	✓	•							
Thursday					•	✓	✓	✓	✓	•	•	•	✓	✓	•	~	✓							
Friday					•	•	•	•	•	~	~	•	•	•	~	✓	•							
Saturday					-	-	-	-	~	~	~	~	~	•	~	•	•							
Sunday					-	-	-	~	~	~	~	~	~	•	~	✓	•							
Save Motion D									ecta			elect ne Ta	all able	ו										

Now you have to click on the button "Save Motion Detected Time Recording" to save it:





• Note to the time tables

Since version 4.01 of C-MOR, you have additional switching functions for "Motion Detection" and "Email Alarm". On the C-MOR interface you see them top right if the user is logged in as administrator:

AMOR	IP Video				1.	STA.	Motion Detection is on	Email Alarm is on	Script-Stream	- 북왕
and you see more!	Start N Cam 1	lenu Cam 2	Qui Cam 3	ckstart	Recordings	Sy	stem Administration	Sy	stem Status	Logout
and you see more!	Cam 1	Cam 2	Cam 5	-						

With these buttons the administrator is able to deactivate "Motion Detection" and "Email Alarm". So the Time Tables for motion detection or email alarm can also be switched off. These buttons you also have on the iPhone or mobile interface of C-MOR.

Holidays Configuration

C-MOR offers the option to define holidays. Holidays are days which need a special time table configuration. All time tables have a row holidays. These holidays are configured here. C-MOR will not use the weekday configuration if the current day is a defined holiday.

Holidays Configuration

2014-02-29	
2014-06-15	
2014-00-13	
(One day each line. Date format:)	'YYY-MM-DD, e. g. 2012-04-30)
Save Holidays	

• Configuration of camera event for network alarms

Recordings by C-MOR can be triggered by the use of external switches (special accessories) that report events over your network. Here it is necessary to use an IP switch, which is sending messages to C-MOR via the so-called syslog service. This will then start a recording for the selected camera.

Image mask for the definition of the area of motion detection

In case motion should not be detected within the complete camera image the area where motion should be detected (white area) can be defined by a black & white mask. The defined black area will not trigger motion detection. The size of the image mask has to be identical to the size of the camera image.



• Link to the camera direct access The button "Cam Administration" leeds you to the web interface of the selected camera.

General information about motion detection:

Motion detection carried out by C-MOR is based on differences in the respective camera image and not due to conventional motion detectors (exception: special accessory external switch). Motion detection can also be effected by changes in light.

3.2.2 Camera Activation

Under "Start/Stop of Recordings" it is possible to control the activities of the individual cameras and start or stop recordings. In case the recording of a camera is deactivated there will not be any saved video recordings of this camera. Depending on the camera configuration in case of an activated camera, permanent recordings and/or motion detection is saved in individual files.

Recording Camera1: deactivated	Start Recording
Recording Camera2: deactivated	Start Recording
cording Camera3: deactivated	Start Recording



You can activate or deactivate the camera directly in the respective camera configuration:

		Camera C	Configura	tion Camera 1
Cam Location:				Change Location
Recording cam 1: activate	d Stop Recording]		
Camera PTZ Configurati	on			
backup_cam1_2015-05-1		Load Backup	Data Ba	ackups
Delete the Recordings afte		Save		
Camera Network Da	ta			
IP Address/DNS Name	172.20.1.137			
TCP-IP-Port	80			
User Name	viewer			
Password	•••••			

3.2.3 Camera Configuration, Integration of Existing Camera

Under Adjust Camera Configuration you can define further settings for the individual cameras.

Camera Type Configuration

Please select the cam type that matches the connected cam:

Cam Type	INSTAR IN-2905	^
	INSTAR IN-3010	
	INSTAR IN-4010	
	INSTAR IN-5907 HD JPEG	
	INSTAR IN-5907 HD MJPEG	
	JVC VN-V686	
	JVC VN Series	
	LevelOne FCS-0010 MJPEG	
	LevelOne FCS-0020 MJPEG	
	LevelOne FCS-0030 MJPEG on Stream 2	×
Manual path	/channel2	

Save Configuration



Under **Network Data** the following data is displayed: the current IP address of the camera, the TCP port, the user name and the password C-MOR is accessing the camera with.

Camera Network Data

IP Address/DNS Name	172.20.1.137
TCP-IP-Port	80
User Name	admin
Password	•••••

When you change any data in this section you also have to change it on the individual camera with its own configuration program or over the web interface of the camera. Otherwise C-MOR is no longer able to access the camera and thus no longer able to record.

In case you already have a camera that is supported by C-MOR, you can integrate it by entering the IP address, the port, the user name and the password of your camera. The same settings have to be done for the camera itself.

Under "Configuration Camera Type" you can select the camera type that is most suitable for your camera. C-MOR currently supports all cameras with the standard JPG and MJPG. A complete list of supported IP-Cameras including many more models can be viewed under <u>http://www.c-mor.com</u>. In case you cannot find your model in the list you can request the support of your model either by email or telephone, we will then give you all the details you need.

In case your camera is not listed but supported it can easily be connected under the item "Manual Path" in C-MOR. Just enter the directory of the URL of the camera's live image or the camera's MJPEG live stream, such as e.g.

/axis-cgi/jpg/image.cgi?resolution=640x480

After that single camera options such as image rotation or maximum recording time can be defined. The description of each setting can be found next to the respective option in the table.

On the same configuration page you are able to plan time-controlled recordings. Please click time and day when you would like to start the video surveillance.



Time controlled recordings

The selected hours 0-23 display, when the recording on the individual weekdays takes place according to the selection:

Time (Hour)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Holidays	•	•	•	•	•	✓	✓	•	•	✓	•	•	•	•	•	•	•	•	•	•	✓	•	✓	•
Monday	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	✓	-	-	•
Tuesday	•	•	•	•	✓	•	-	•	•	•	•	•	•	•	•	✓	•	•	•	✓	•	•	•	✓
Wednesday	-	•	•	-	•	-	-	-	-	•	-	•	•	•	•	•	•	•	•	•	-	-	•	•
Thursday	•	•	•	•	•	-	-	•	•	✓	-	•	•	•	•	•	•	•	•	•	✓	-	-	•
Friday	•	•	•	•	•	-	-	•	•	•	-	•	•	•	•	•	•	•	•	•	✓	-	•	•
Saturday	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	~	~	-	-	-	-
Save Time	Re	cor	ding]	l	Jns	eleo	ct al	I	;	Sele	ecta	all											
Time Table	Em	ail A	ları	m C	am	era	1		•	Lo	ad	Tim	еT	able	е									

Please carry out the settings in the table below for "Time Controlled Recording during Motion Detection" just as described above.

The third table defines the times in which alarm emails are sent. The configuration works again as described above. Please configure n the long configuration table if time based alarm emails are sent in general and if recordings are attached to emails. The email address is configured in this section as well.

Recordings can be started by external events (door switches, ultrasonic motion detectors, bell switches and many more). This requires a network switch, like e.g. Barionet or other Syslog-IP switches, to send a system message to C-MOR. The message has to be in accordance with the line defined in this section, which will then trigger the recording.

Cam Syslog Event	
Save Event	

+ 471, 3px

tO

Mask is not available!

Load mask file: Browse

3.2.4 Image Mask for the Definition of the Areas for Motion Detection

C-MOR reacts on motion in the complete camera image. This might require some kind of limitation so that not every kind of motion leads to motion detection. An example of this would be cars driving by or pedestrians at the property lines. By using this function a black & white mask can be loaded. By the help of this mask C-MOR will only carry out motion detection in the respective white areas.

The black & white mask can be created as follows: please start with creating a white image of the size of your camera resolution. Please add black layers to those areas where no motion detection should be effected. Then save the image as a JPG file and upload it to C-MOR. All black areas will then be ignored in terms of motion detection.

The following pages describe the steps to create such a mask with your Windows computer.

Load File

Call the camera settings page for the camera you want to add a motion detection mask. Scroll down to the section "Picture Mask". This function will be used later after the mask was drawn.

100% 😑

Picture Mask for the Definition of the Picture area in which Motion Detection is active

Keine Datei ausgewählt.

Mask active: no. Motion detection within the whole picture is enabled.

t⊒ 864 × 540px

	Activate	Mask	Deactivate	Mask C	elete Mask								
-	The cre	eation o	f a mas	sk work	s simple a	nd q	uick ar	nd can	be done l	by using	the Wir	ndows P	aint Program.
		Untitled - Paint								- 0 X	r		
		Untitled - Paint		anarona ina	Contraction of the local data								
	Clipboard	Select Jmage	A A A Francis		C C C C C C C C C C C C C C C C C C C	Size	Color 1 Color		Edit colors				
					• • • • • • • • • • • • • • • • • • •					E			



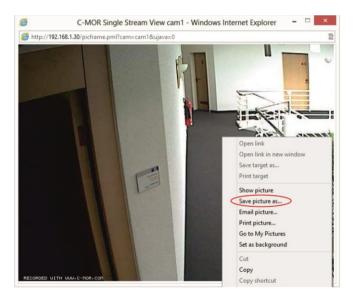


Please proceed as follows to create a mask:

Save the image of the camera for which you want to create a mask on your computer. Do this by calling the "Quickstart" page. Make sure the stream type on top right is set to "Script-Stream" and select the live view with the highest resolution for the selected camera. In this example we create a mask for camera 1 and the resolution is 640x480 pixels. A new window will open.



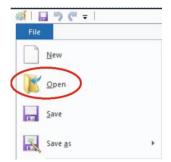
The new opened window: Move your mouse pointer over the live view and click the right mouse button. Select "Save picture as..." from the opened context menu.



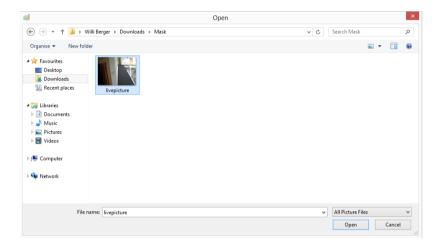
Please determine in the opened window a filename, such as "livepicture.jpg" and remember the position where the picture has been saved on the hard disk. In the next step the image has to be loaded into Windows Paint Program.



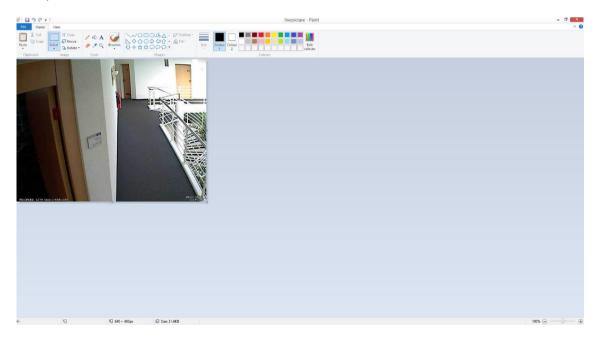
The menu of the Windows Paint can be opened on the top left by a button.



Click on "Open". The following window allows opening the file, which just has been saved.



The picture of the camera is now loaded in Windows Paint.

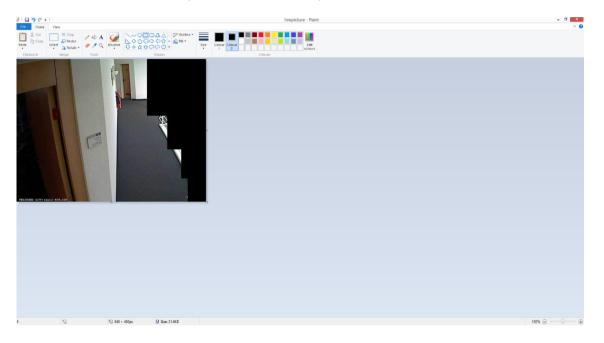




The loaded picture will now be re-painted with black and white areas. White areas are for motion detection areas. Black areas are not motion-sensitive. It is ideal to paint the black areas first. Please note, that on the top of the menu you lodged the colors "Color 1" and "Color 2" as black color. The second color is the fill color, for example circle, rectangle etc., which is activated as "solid color" at "Fill".

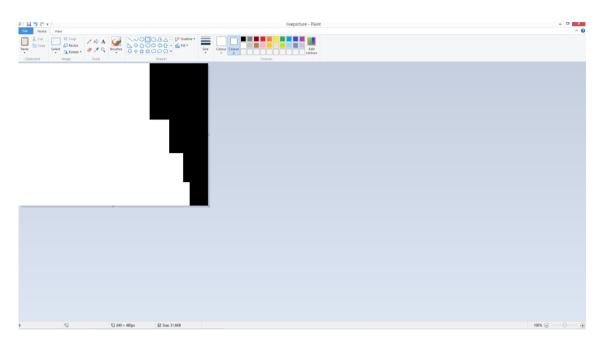


Paint the black areas first (no motion detection):



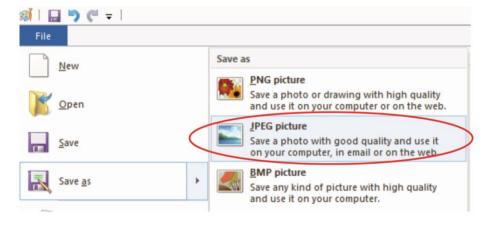
Now please change both colours to white.





Afterwards the white areas will be painted (area for motion detection):

If the mask is ready, it will be saved locally on the computer. Please open the menu left on top. Then click on "Save as" and choose "JPEG picture".





Please choose a file name. Be careful! If the name would not be changed, the existing name will be maintained and the saved live picture will be overwritten.

🧭 Save As				l	23
	illi Berger 🕨 Downloads 🕨 mask	✓ 4y Sean	ch mask		٩
Organize 🔻 Ne	w folder			•== •	0
★ Favorites ■ Desktop ↓ Downloads ③ Recent Places ↓ Libraries	Name	Date modified No items match your search.	Туре		Size
 Documents Music Pictures Videos Homegroup 					•
File name:	mask-camera1.jpg JPEG (*.jpg;*.jpeg;*.jpe;*.jfif)				•
Hide Folders		S	Save	Cancel	

Please remember where you saved the mask.

Next, the mask has to be uploaded on C-MOR. Please switch to the camera configuration menu of the camera for which to limit the motion detection. In the example this is "Camera 1". Please select the "System Administration" page on your C-MOR web. Scroll down to "Camera Configuration" and select "Camera 1".



The menu for the camera management opens now. Scroll down to area "Picture Mask for...":

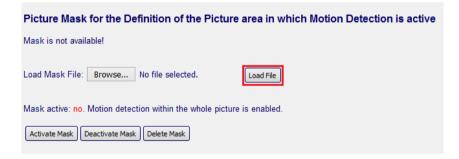


Picture Mask for the Definition of the Picture area in which Motion Detection is active

The just created mask has to be chosen and has to be uploaded. Click on "Browse" and select the just created mask in the window that has opened:

🗧 🔿 👻 🕇 🚺 🕨	Willi Berger → Downloads → Mask			✓ C Search M	Mask
Organise New fo					ii • 🔟
☆ Favourites	Name	Date modified	Туре	Size	
Desktop	livepicture	04/10/2013 12:45	JPG File	32 KB	
\rm Downloads	mask-camera	04/10/2013 13:01	JPG File	8 KB	
📃 Recent places					
🥽 Libraries					
Documents					
🖻 👌 Music					
Pictures					
Videos					
💻 Computer					
Per computer					
1 Computer					
🗣 Network					
🗣 Network	name: mask-camera			✓ All Files	5 (*.*)

Click on "load File" after the file has been selected:



The file is uploaded to C-MOR. Click now "Activate Mask" to enable the created motion detection mask:

The mask has been uploaded. Activate the mask to enable it.

 Activate Mask
 Camera Configuration
 Start Page

The mask is now activated! Click on "Camera Configuration" to assure the mask is active and is defined for the right motion area:



The mask for motion detection of camera 1 has been activated.

Camera Configuration	Start Page
ounora ooringaraton	oranti ago

The created mask is shown beside the live picture. To the far right the mask is shown in front of the live viewing.

Camera Picture	Mask	R	Mask on Camera Pictu	
Motion detection is only enabled for the	white area of the mask. The com	plete picture is recorded!		
Load mask file: Browse Keine	Datei ausgewählt Load F	ile.		
Mask active: yes. Motion detection is en	babled for the white area only.			
Activate Mask Deactivate Mask	Delete Mask			

If you would like to correct the mask, simply change the created mask again in Windows Paint on your computer and upload it like you did before.

Important! The black area will also be completely recorded! Only motion will not be recognized. Please refer to your camera manual if you would like to use a privacy mask, a function where the complete area already can be broadcasted blacked out or contact C-MOR directly under <u>www.c-mor.com</u>.

Please note that a mask needs to have the same width and height like the camera image. If the mask has other dimensions, it leads to failure.



3.2.5 The C-MOR PTZ Control

Behind the PTZ-Control (PTZ: Pan/Tilt/Zoom) stand the Motion of moveable cameras directly with the C-MOR Web Interface.

A great advantage of the PTZ-Control is the consistent interface for all camera types. Also no software has to be installed on the PC to manage the cameras. Furthermore the PTZ control works with the iPhone, iPod or iPad and other mobile devices with internet function.

For the configuration of the PTZ-Cameras there is a configuration page in the C-MOR web interface that can be reached from the camera configuration page.

0-MOR	IP Video Surve V4.12 admin Disk Usa	ge: 1%	14	1682		Motion Detection is on	Email Alarm is on Script-Stream	A A
and you see more!	Start Menu Cam 1 Cam 2	Cam 3	Quickstart	Recording	js	System Administration	System Status	Logout
You are in the				Camera Configu	ration Camera 1			
Cam Configuration Menu								
Configuration Cam Network Data	Cam Location:				Change Location			
Configures the IP Address, TCP Port, user name and password to enable C-MOR to access the cam.		[1				
Cam Type Configuration	Recording cam 1: 0	leactivated	Start Recording					
Select the Camera type that C-MOR records.	Camera PTZ Con	figuration						
Cam Settings								
Configures cam recording options.	backup_cam1_201	5-02-10-13-	48-57.cbkf 🗸 🛛	oad Backup Data	Backups			
Time controlled recordings	Delete the Recordi	ogs after 10	✓ days Sa	ive				
Configures "fixed" recording schedule.	Delete the Records	igs alter 10	uays St	We -				
Recording by motion detecting and time	Camera Netwo	rk Data						
Configures recording schedule when recording is triggered using	IP Address/DNS N	lame 172.	20.1.37					
motion detection function only	TCP-IP-Port	80						
Alarm Emails by motion detecting and time	User Name	view	er					
Configures alarm emails schedule	Password	•••	••••					
when motion is triggered								



In the PTZ configuration page all known PTZ cameras are available. In the section **Load pre-defined camera data** the settings for the PTZ camera can be loaded.

PTZ Configuration fo	r Camera 1
PTZ function camera 1: disabled Enable PTZ	
Load pre-defined camera data ABUS-SC TVIP21550 PT	
Access data for the camera (needs access to control the camera!) User name Password IP/Name TCP-IP-Port	Camera orientation 0 degrees 90 degrees 180 degrees 270 degrees

Simply select the right camera in drop-down menu.

Load pre-defined camera data		
ABUS-SC TVIP21550 PT	¥	Load camera data
ABUS-SC TVIP21550 PT	^	
ABUS-SC TVIP21551 PT		
Allnet 2272 PT		access to control the camera!) Camera orientation
Allnet 2282 PT		access to control the camera:)
Allnet 2297 PTZ		
ALONMA PT		● 0 degrees
Axis 212 PTZ		○ 90 degrees
Axis 215 PTZ		O 180 degrees
Axis P5532 PTZ		O 270 degrees
Axis Q6032 PTZ		
INTELLINET NSC18-WN		
INSTAR IN-3010		
JVC VN-V686 LevelOne FCS-0020		ommand
LevelOne FCS-1020		Uninand
LevelOne WCS-2010		
LevelOne FCS-1040/WCS-2040		
LevelOne FCS-6010		
LevelOne WCS-6020		
Linksys PVC 300	v	
	_	



If the PTZ configuration of the selected camera was loaded, the second step follows for the configuration of the PTZ control: The setup of the login data for the camera and the setting for the camera rotation.

ABUS-SC IV	/IP21550 PT v Load camera data	
	a for the camera (needs access to control the camera!)	Camera orientation
	admin	0 degrees 90 degrees
, acomora		O 180 degrees
Construction of the local division of the lo	172.20.1.76	270 degrees
TCP-IP-Port		
Left	/cgi-bin/operator/ptzset?move=left	
Right	/cgi-bin/operator/ptzset?move=right	
Jp	/cgi-bin/operator/ptzset?move=up	
Down	/cgi-bin/operator/ptzset?move=down	
Zoom in	Not supported by camera	

If the camera was fixed on a ceiling, which has the effect, that the camera is upside down, the PTZ control has to be configured with the rotation of 180 degrees. Otherwise the PTZ commands will navigate to the wrong direction.

Of course the loaded PTZ commands can be adjusted. If a camera has a configurable pan or tilt setting, so the command can be adjusted with your own requirements.

Next to the control commands for pan, tilt and zoom, moveable cameras usually own the function to set up pre-defined positions. These positions can be stored in the PTZ menu, too. The pre-defined positions commands you will find in the C-MOR web forum or by asking the C-MOR support team.

PTZ command	Camera command				
Left	/command/ptzf.cgi?Relative=0401				
Right	/command/ptzf.cgi?Relative=0601				
Up	/command/ptzf.cgi?Relative=0801				
Down	/command/ptzf.cgi?Relative=0201				
Zoom in	/command/ptzf.cgi?Relative=1104				
Zoom out	/command/ptzf.cgi?Relative=1004				
Pre-defined Position	Camera command	Name/description			
Preset Position 1	/command/presetposition?PresetCall=1	StartPoint			
Preset Position 2	/command/presetposition?PresetCall=2	Castle			
Preset Position 3	/command/presetposition?PresetCall=3	Church Downtown			
Preset Position 4	/command/presetposition?PresetCall=4	Gas Company			
Preset Position 5					
Preset Position 6					
Preset Position 7					
Preset Position 7					



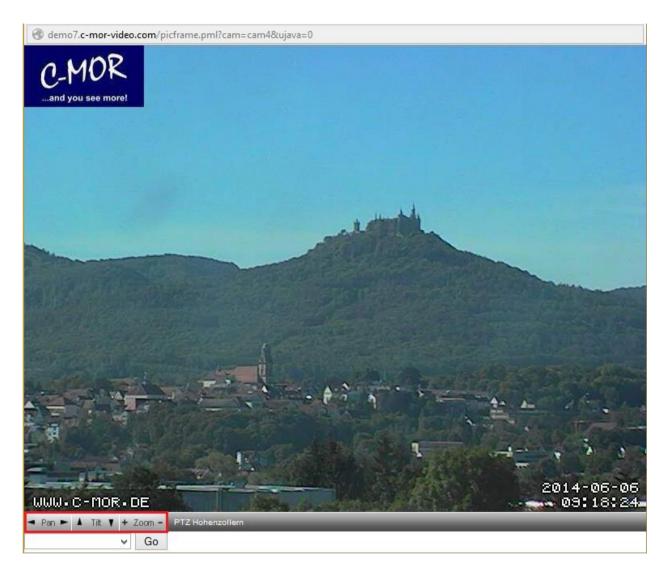
If the PTZ commands are configured, at least you have to activate the PTZ control over the camera Menu.

	PTZ Configuration	for Camera 1
TZ function	camera 1: disabled Enable PTZ	
.oad pre-de	fined camera data	
ABUS-SC I	VIP21550 PT V Load camera data	
ABUS-SC T	VIP21550 P1 VILoad camera data	
	a for the camera (needs access to control the camera!)	Camera orientation
		Camera orientation 0 degrees
Access dat	a for the camera (needs access to control the camera!)	 0 degrees 90 degrees
Access dat User name	a for the camera (needs access to control the camera!)	• 0 degrees



3.2.6 Usage of the PTZ control

If the PTZ function is activated for a camera, the control icons will be shown on the camera web pages automatically.



The PTZ buttons are self-explanatory. These functions are pan from left to right, tilt from up and down and zoom in and out.

In the drop-down menu underneath the pan, tilt and zoom buttons you will find the menu for the predefined positions.





4 Legal Information

The software of C-MOR is a bundle consisting of free and commercial software. The free program sections are licensed according to GPL and can be freely used, copied and distributed. By purchasing C-MOR the purchaser obtains a user license for the complete software package but is not allowed to copy it.

4.1 Disclaimer

The software in use with the device is basically a combination of free software, open source, that is licensed by the authors without any occurring cost. As far as not stated explicitly in the license of the individual software packages, the following disclaimer is valid: za-internet GmbH does not assume any liability or warranty for the program as far as it is legally permissible. Unless otherwise confirmed in written form, the copyright owners and/or third parties provide the program "as it is" without any warranty. Neither explicitly, nor implicitly, including –but not limited to - marketability or usability for a particular aim.

The full risk of quality and capability lies with the user. In case the program turns out to be erroneous, the costs for required service, repairing or correction have to be borne by the user.

Neither the copyright owner, nor any third party who has modified and distributed the program as allowed above, is liable for any damages – the use of this program is at your own risk unless there is no valid applicable law or written agreement. This applies for any general or specific damages, damages by side effects or consequential damages that result from the use or uselessness of the program (including – but not limited to – loss of data, erroneous data processing, losses that have either to be covered by you or others or the inability of the program to work together with other programs), even when the copyright owner or a third party was informed of the possibility of such damages.

4.2 Warranty

The distributor where the devices have been purchased (za-internet GmbH or specialized seller), issues a 2-year warranty for material and workmanship for products with undamaged seal of quality from the day of delivery.

In the first instance the purchaser has a right to supplementary performance.

The supplementary performance either provides rectification or delivery of conforming goods. Replaced parts or devices will pass into the property of the seller.

In case supplementary performance cannot be carried out, the purchaser can either claim abatement of the purchaser's price or withdraw from the purchase contract. As far as it is a defect the seller is responsible for, the purchaser can claim compensation or refund of vain expenses

The purchaser has to announce obvious defects immediately.

Verification of warranty claim has to be adduces with proper purchase certificate (sales receipt or invoice).

All damage which has arisen due to improper treatment, operation, storage as well as force majeure or other external influences are excluded under the warranty.

In case of an assumed warranty case, please contact our support during business hours. Please find contact details in the appendix.

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