

FastTrace 2

FastTrace 2

by Xtralis

Users' Manual



Version 2.6 – Release 18 September 2012
Document reference 19532050

ADPRO[®]
by  **xtralis**[™]

General information

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Document Conventions

The following icons conventions are used in this document.

Convention	Description
	Caution: This icon is used to indicate that there is a danger to equipment. The danger could be loss of data, physical damage, or permanent corruption of configuration details.
	Warning: This icon is used to indicate that there is a danger of electric shock. This may lead to death or permanent injury.
	Warning: This icon is used to indicate that there is a danger of inhaling dangerous substances. This may lead to death or permanent injury.

Tradename statement

ADPRO is a registered trademark of Xtralis AG Pty Ltd.

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1 Safety instructions



CAUTION

RISK OF ELECTRIC SHOCK, DO NOT OPEN!



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation mark within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying this appliance.

Environmental information



The crossed-out container indicates the fact that within the European Union this product has to be offered for separate waste collection at the end of the product’s lifespan. This goes for the product, but also for all accessories that are included and bear the same label. Do not put these products with domestic garbage. For more information about the ways to collect, reuse en recycle, please contact your local Waste Service. You can also contact Xtralis for more information about the environmental aspects of our products.

Clarification

Adpro’s **FastTrace 2** is the newest ADPRO product concerning video recording. Hence, FastTrace 2 is also compatible with:

- FastTrace
- V3100
- V3100 FT
- V3100 HYBRID

You can upgrade firmware and software of the products mentioned above to the newest FastTrace 2 firmware and software. Please do take into consideration that the FastTrace 2 videosystem could have other system requirements than any other previous ADPRO products!

2 Hardware

2.1 FastTrace 2 versus FastTrace 2 Lite

The FastTrace 2 Lite has been designed, developed and manufactured as a complete FastTrace 2 video security system, but the ENTRY system license that is included, limits the number of cameras that can be supported to a maximum of 4 analogue cameras.

Please also note that the FastTrace 2 Lite can only operate on analogue cameras, there is no possibility to support IP cameras.

The FastTrace 2 Lite can only be purchased with an entry system license:

	FastTrace 2	FastTrace 2 Lite
Full system license	✓	✗
TX (transmission) only license	✓	✗
Entry level license	✓	✓

See the *FastTrace 2 technical manual* for further information on the system licenses.

Please consult the ADPRO commercial data sheet on the FastTrace 2 Lite. This data sheet can be downloaded from our website www.xtralissecurity.com. You don't need to login to download the commercial data sheets!

2.2 FastTrace 2 versus FastTrace 2X

The FastTrace 2X is the newest hardware in the ADPRO® FastTrace™ series. It has been developed as a more powerful video system with higher performance and more efficient operation.

The most important difference is the possibility to have **16 analytic channels** with the FastTrace 2X, while the FastTrace 2 is limited to a maximum of 4 analytic streams.

The FastTrace 2X can also be purchased with a full or tx only system license:

	FastTrace 2	FastTrace 2X
Full system license	✓	✓
TX (transmission) only license	✓	✓
Entry level license	✓	✗

See the *FastTrace 2 technical manual* for further information on the system licenses.

Mind:

The FastTrace 2X requires the minimal software version 2.6!

Please note:

Wherever in this document the term FastTrace 2 is used, you can assume that the term refers to both the FastTrace 2 and the FastTrace 2X, unless specifically mentioned otherwise!

2.3 Technical specifications




Operating system	PC platform – Linux OS
Network protocols	TCP, UDP, FTP, TELNET, HTTP, SMTP, RTSP, RTP
Bandwidth	Remotely adjustable: compression, ips and quality. A bandwidth limit can be specified.
Bandwidth consumption	6 ips CIF/SIF: 70 kb/sec 12 ips 4CIF/SIF: 400 kb/sec in optimal quality
Software updates	Local and remote
Maximum number of cameras	16 (total of analogue and IP cameras)
Web server	Integrated
COM ports	4 USB interfaces used for: - PTZ control (requires USB → RS485 convertor) - PSTN or ISDN modem
Ethernet	10/100/1000 Base-T, auto detection, full duplex, RJ45
Storage	up to 4 devices (connected through SATA interfaces); following arrangements are possible: - 1 to 4 hard disks (500 GB to 2 TB) Remark: There are USB connectors accessible on the back of the FastTrace 2 video system; and also 1 USB connector is on the front to which a portable DVD writer can be connected to export video sequences.
Remote visualisation	Internet Explorer; Windows XP, Windows Vista, Windows 7, Windows Server 2003
Management	- Internet Explorer (installs Client software) - VSKwin software - M3000 software - VideoCentral Platinum - 3rd party CMS software
Power supply	100~240 VAC, 50/60 Hz (+80% efficiency) ! The video system has to be connected to a 230 VAC/16A mains outlet with proper earth, applying a separate locally approved power cord.
Operating temperature	5 – 40°C (<i>see also 1.3 Fan speed selection</i>)
Humidity	20 – 93% (non-condensing)
Dimensions	445x132,50x300 (WxHxD in mm) <i>Rubber feet can be fixed on the bottom. The height is then increased with 2.5 mm.</i>

Multi-site FASTTRACE 2 configuration is possible:

- Integration of up to 10,000 FastTrace 2 video security systems.
- Remote video and audio, live video and consultation of recordings.
- Compatible with FOXnet®Plus, FALCONnet, S3100, Presidium, VSKwin®, VCP and M3000.
- SDK for third party integration.

2.4 Front LED indicators

On the front of the FastTrace 2 video system are 3 LEDs:

Green LED		Power is on
Yellow LED (*)		Fault
Blue LED		Storage media activity

Only the green and blue LED could be lit all the time. If you see the yellow LED lit, you should check the status of your FastTrace 2 video system.

(*) The yellow LED can only be lit when a Main I/O card has been installed.

Remark:

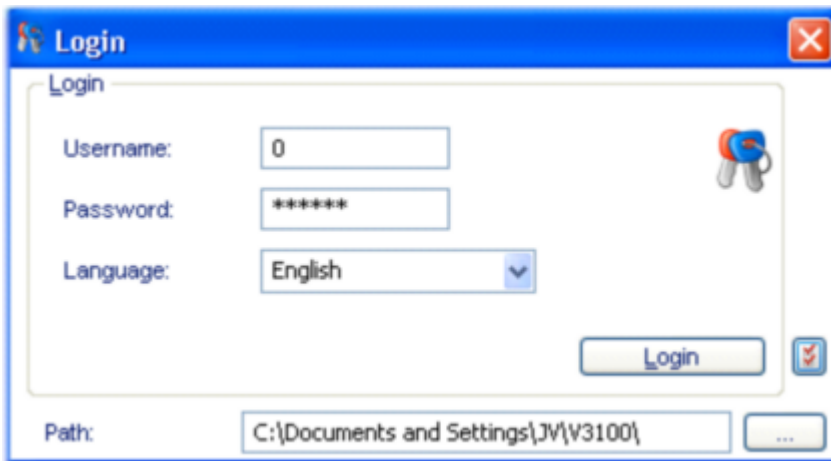
When the 3 LEDs are flashing simultaneously, the system is busy updating the recordings discs. Do not turn off power in that case!

3 Client Setup and Configuration

3.1 Initial configuration

3.1.1 Launching the FastTrace 2 client in Internet Explorer

Open Internet Explorer. Type the IP address of the FastTrace 2 in the address bar (by default the IP address is 10.0.0.10 with subnet mask 255.255.255.0).




Provide a valid username and password.

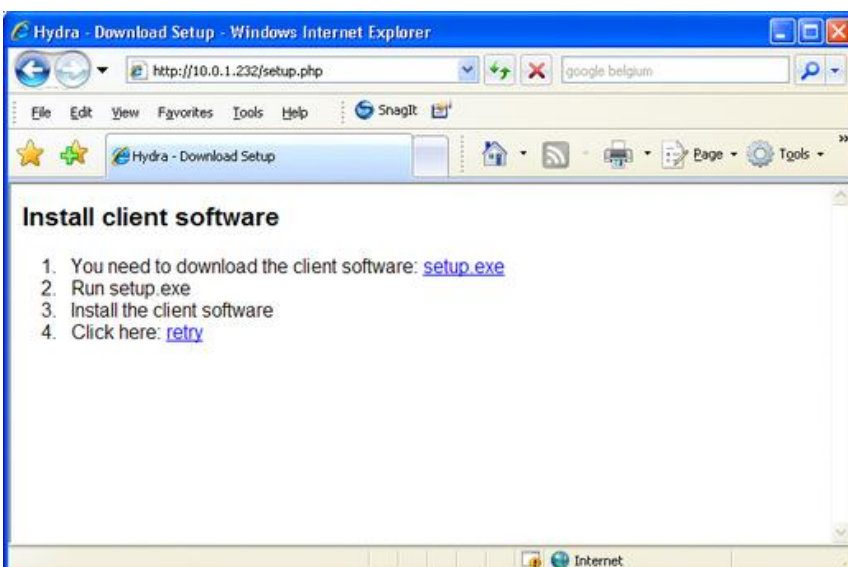
3 users are by default validated in the FastTrace 2:

- User "0" with default password "666777"
- User "1" with default password "666777"
- User "15" with default password "666777" (= technician)

If required, change the language and check whether your work folder (= the folder in which downloaded and local recordings are stored) is correct.

Click  when you can't see the work folder path!


Click 'Login'.

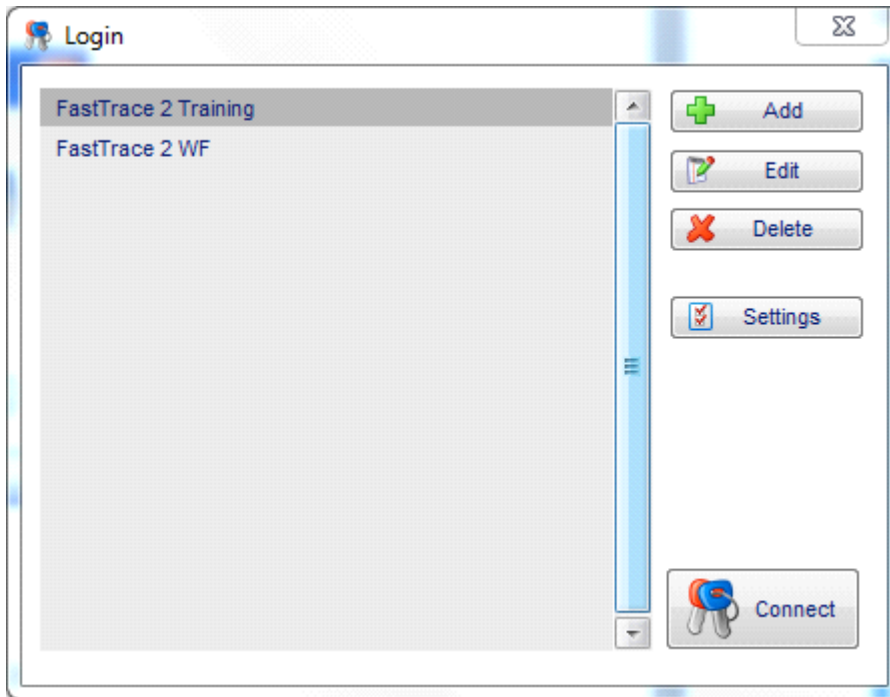


Mind:

It might occur that the internet browser is opened instead of the login screen. If this is the case, just click "Retry".

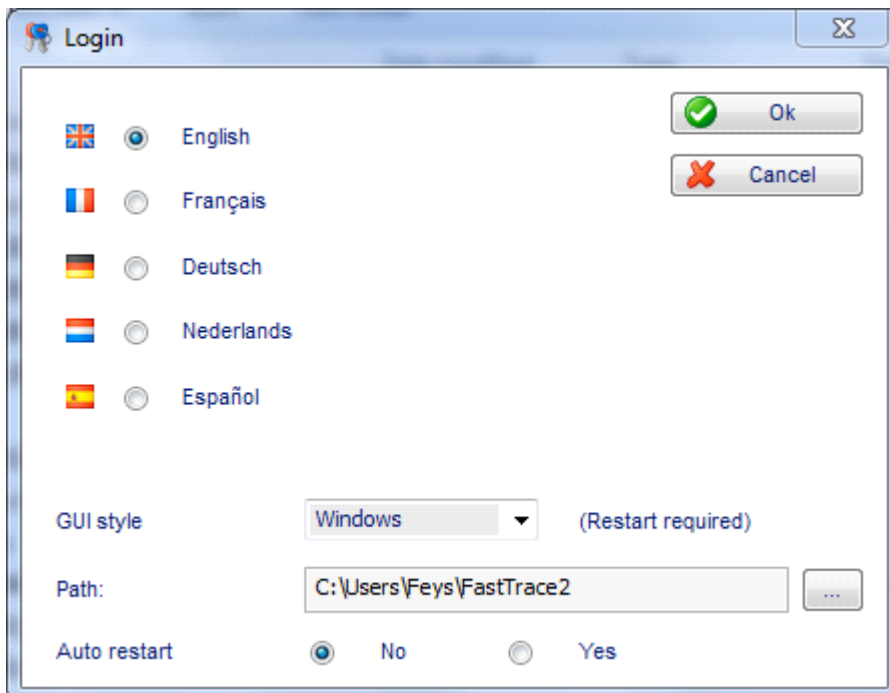
3.1.2 Launching the FastTrace 2 client in its own window

On the desktop, double click the FastTrace 2 shortcut:  .
You will get a login window:

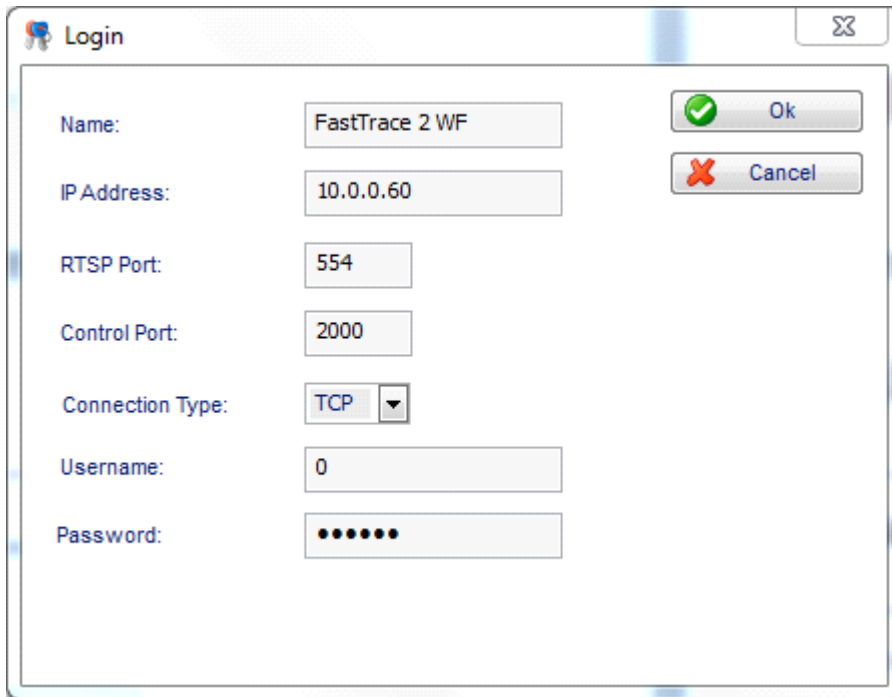


Select the desired video system from the list and click **Connect**.

Via **Settings** you can change the language, the skin (= appearance of the program) and the work folder (in which downloaded and local recordings are stored):



Via **Edit** you can modify necessary ports or change user (with valid password). It is also recommended to provide a useful and meaningful name for your video system.



The screenshot shows a 'Login' dialog box with the following fields and values:

Field	Value
Name:	FastTrace 2 WF
IP Address:	10.0.0.60
RTSP Port:	554
Control Port:	2000
Connection Type:	TCP
Username:	0
Password:	••••••

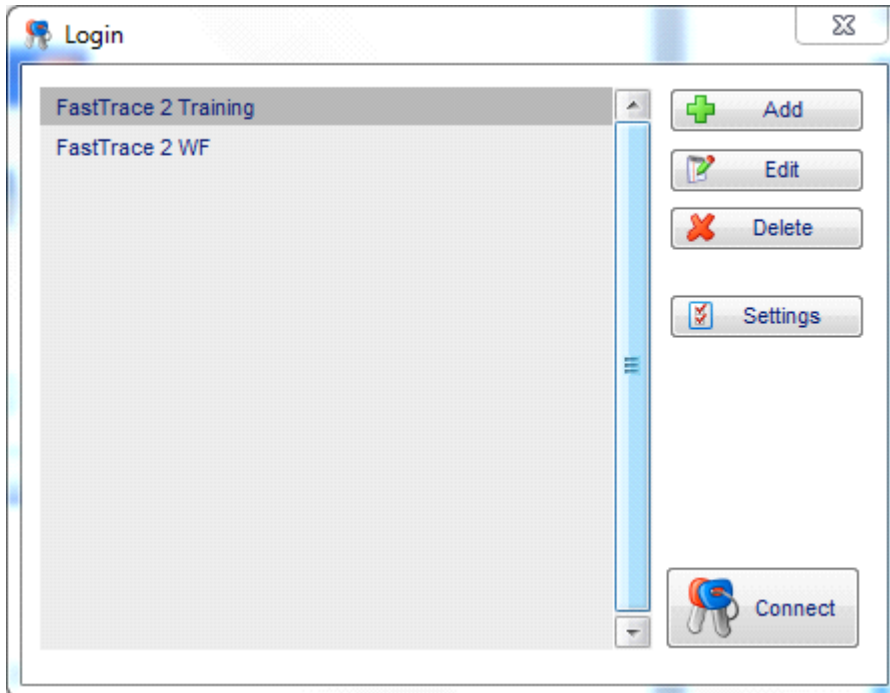
Buttons: Ok (with a green checkmark icon), Cancel (with a red X icon).

Mind:

The client software by design requires a minimum screen size of 1024x768. All screens have been designed in that resolution. If your screen is not 1024x768, you should open the client in Internet Explorer (or any other internet browser).

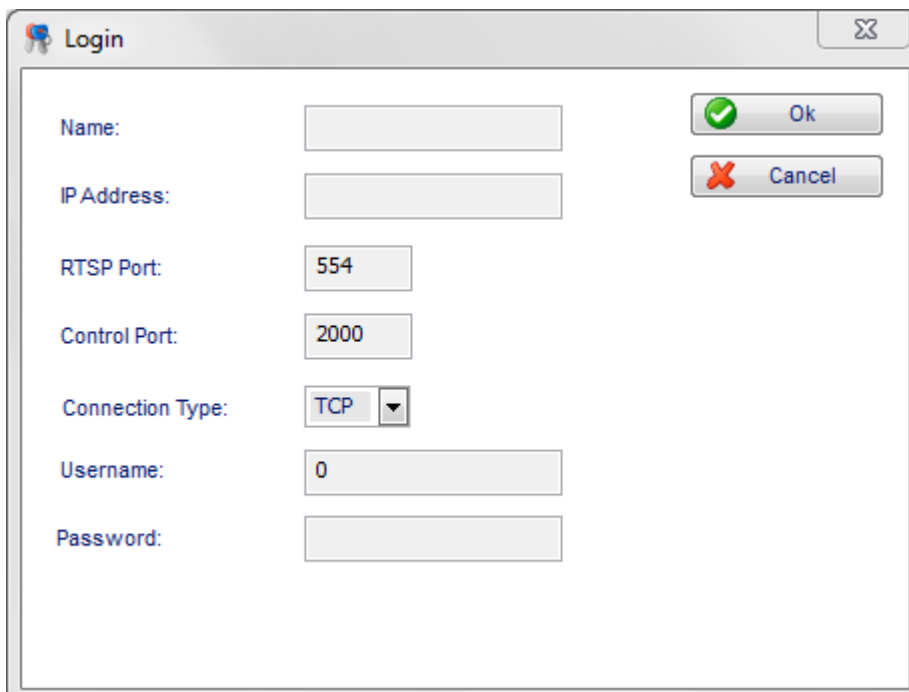
3.1.3 Adding a FastTrace 2 server to the FastTrace 2 client

Launch the FastTrace 2 client (in its own window).



Click **Add**.

You will get this window:

The screenshot shows a dialog box titled "Login" with a list of fields for adding a new server. The fields are: "Name:" (empty text box), "IP Address:" (empty text box), "RTSP Port:" (text box containing "554"), "Control Port:" (text box containing "2000"), "Connection Type:" (dropdown menu showing "TCP"), "Username:" (text box containing "0"), and "Password:" (empty text box). On the right side, there are two buttons: "Ok" (with a green checkmark icon) and "Cancel" (with a red X icon).

Please fill in all necessary information.

- Enter a description as "Name". It is recommended to provide a meaningful description to your FastTrace 2 video system!
- Enter the IP address of the FastTrace 2 (by default 10.0.0.10).
- Set RTSP port and Control port. Use the same ports as specified under System > Ethernet/PPP (*see*).
- Select the TCP or UDP protocol. UDP is recommended, but TCP may be required if the connection goes through a router that blocks the UDP packets.
- Enter the username and password of an existing user. By default you can log on with user "0" and password "666777".

Click **OK** to save the added device.

At this time you can select the newly added video system from the list and connect to it.

3.1.4 Setting date and time

Open the *Date/Time* window via **System > General > Date/Time**.

Tick the option “Daylight savings” and select your time zone. Click the correct date and enter the correct time indication.

If available, you can let the FastTrace 2 synchronise with an NTP server. Enter the IP address (or the name if Dynamic DNS has been activated) of the NTP server. NTP stands for Network Time Protocol. When an NTP server has been defined, the video system must be restarted.

Date/Time
Set here the timezone and the date and time. When using NTP, set the time manually as close as possible first, and then fill in the NTP servers' IP address. The clock will only be adjusted very slowly! You need to restart the system to activate a new NTP server address.

Timezone

Daylight savings Yes No

(GMT+01:00) Amsterdam - Berlin - Bern - Rome - Stockholm - Vienna
 (GMT+01:00) Belgrade - Bratislava - Budapest - Ljubljana - Prague
 (GMT+01:00) Brussels - Copenhagen - Madrid - Paris
 (GMT+01:00) Sarajevo - Skopje - Warsaw - Zagreb
 (GMT+01:00) West Central Africa
 (GMT+02:00) Amman
 (GMT+02:00) Athens - Bucharest - Istanbul
 (GMT+02:00) Beirut

Date

April 2011

M	T	W	T	F	S	S
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Time

10 : 19 : 48

NTP

NTP server Sync

Click ‘Save’ to apply the new settings.

To store the new settings permanently, open **System > Maintenance > Configuration**, select the desired configuration to overwrite and click ‘Save’.
 (see [Storing a configuration](#))

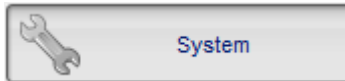
Mind:

If you turn back the clock, recordings made after the given time indication may be erased.

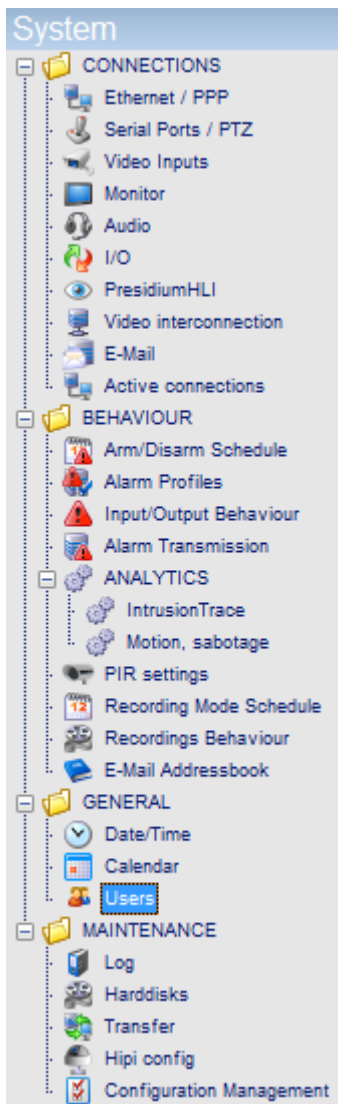
4 Users

Launch the FastTrace 2 Client and connect to the desired video system.

Click 'System'.



Open the 'Users' menu via **System > General > Users** (by clicking in the menu on the left):



You will get this section on the right of your window:



4.1 Default users

Up to 32 users can be created.

Three users are by default already defined in the FastTrace 2 video system:

- User "0" with default password "666777"
- User "1" with default password "666777"
- User "15" with default password "666777" (= technician)

It is always possible to change the passwords of these users.
(see [Modifying an existing user](#)).

4.2 Adding new users

Open the **Users** window and click 'Add'.



The screenshot shows the 'Users' window with the following elements:

- Header:** 'Users' with a subtitle 'Define here the users of the system and set their rights.' and an icon of two people.
- Users List:** A list box containing:
 - 0 - Administrator
 - 1 - Administrator
 - 15 - Technician
- Buttons:** 'Add', 'Edit', and 'Remove' buttons below the list.
- Technician grant section:**
 - Status: disabled
 - Enable button

You will get this window:



The screenshot shows the 'Users' window with the following form fields:

- User Id:** 2 (dropdown)
- Username:** (text input)
- Type:** Administrator (dropdown)
- Password:** (text input)
- Confirm password:** (text input)
- Increased Password Security:**
- Maximum password age (0= NA):** 0 (text input)
- Nr of invalid login attempts (0= NA):** 3 (text input)
- Nr of seconds user is blocked:** 60 (text input)

Choose a free number. Enter the name of the user and choose the desired type. You can choose from:

- Administrator: has all rights.
- User: has specific rights, adjustable per user.
- Technician: has specific rights, adjustable per user.

Mind:

! A technician can only log in after being granted permission by another user.
(see [Granting the technician](#))

4.2.1 Strong passwords

Tick the option “Increased Password Security”. This way you define that the password has to meet the increased Windows Security about passwords:

- The password has to contain at least 8 characters;
- The password has to contain at least 1 capital letter and at least 1 small letter;
- The password has to contain at least 1 digit.

Optionally, strong passwords also have a limited time of validity (the user will have to change the password before the defined period ends) and a limited number of retries to log on. When the user has reached the maximum number of retries, the account will be temporarily blocked. The time of blocking the password has to be set (value in seconds).

Examples of strong passwords are:

- Tmus001cl
- 12rtSV5km
- aiGP5rsLZa89

The default values of strong passwords are:

Parameter	Unit	Range	Default value
Maximum password age	Day	0 – 120	0
Nr of invalid login attempts	-	0 – 10	3
Nr of seconds user is blocked	Second	0 – 3600	60

4.2.2 User rights

When adding an Administrator, no rights need to be defined. An Administrator has by default all rights. Just click to create the new user with administrator rights.

When adding a User or Technician, you need to specify the rights of this user:

Users Define here the users of the system and set their rights.

User Id	<input type="text" value="16"/>	Username	<input type="text" value="Tech2"/>	<input type="checkbox"/>	Increased Password Security
Type	<input type="text" value="Technician"/>		<input type="text" value="0"/>	<input type="text" value="3"/>	Maximum password age (0= NA)
Password	<input type="password" value="....."/>		<input type="text" value="60"/>	<input type="text" value="3"/>	Nr of invalid login attempts (0= NA)
Confirm password	<input type="password" value="....."/>		<input type="text" value="60"/>	<input type="text" value="60"/>	Nr of seconds user is blocked

Live Video

<input checked="" type="checkbox"/> Live Video	<input checked="" type="checkbox"/>	Cameras	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		PTZ control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Save presets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Right click menu	<input type="checkbox"/>	<input type="checkbox"/> Snapshot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Recorded video

<input checked="" type="checkbox"/> Timeline/Postmotion	<input checked="" type="checkbox"/>	Cameras	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<input checked="" type="checkbox"/> Backup	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

System

<input checked="" type="checkbox"/> System	<input checked="" type="checkbox"/>																	
Connections																		
Ethernet	<input checked="" type="checkbox"/>	Serial	<input checked="" type="checkbox"/>	Video	<input checked="" type="checkbox"/>	Monitor	<input checked="" type="checkbox"/>	Audio	<input checked="" type="checkbox"/>									
VO	<input checked="" type="checkbox"/>	PresidiumHLI	<input checked="" type="checkbox"/>	Video IC	<input checked="" type="checkbox"/>	Email	<input checked="" type="checkbox"/>											

Behaviour

Schedule	<input checked="" type="checkbox"/>	Alarms	<input checked="" type="checkbox"/>	AlarmTx	<input checked="" type="checkbox"/>														
PIR	<input type="checkbox"/>	Recordings	<input checked="" type="checkbox"/>	E-Mail Addressbook	<input checked="" type="checkbox"/>														
		Analytics	<input checked="" type="checkbox"/>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

General

Time	<input checked="" type="checkbox"/>	Calendar	<input checked="" type="checkbox"/>	Users	<input checked="" type="checkbox"/>													
------	-------------------------------------	----------	-------------------------------------	-------	-------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--

Maintenance

Log	<input checked="" type="checkbox"/>	Transfer	<input checked="" type="checkbox"/>	Configuration	<input checked="" type="checkbox"/>													
-----	-------------------------------------	----------	-------------------------------------	---------------	-------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--

Status

Status	<input checked="" type="checkbox"/>	Isolate	<input checked="" type="checkbox"/>	Activate Outputs	<input checked="" type="checkbox"/>	Set tech rights	<input checked="" type="checkbox"/>	Arm/disarm	<input type="checkbox"/>									
--------	-------------------------------------	---------	-------------------------------------	------------------	-------------------------------------	-----------------	-------------------------------------	------------	--------------------------	--	--	--	--	--	--	--	--	--

Hint:

If you want to untick all options (rights), you can click 'Clear'. All options will be unticked, yet the user itself will not be deleted!

4.2.2.1 Live video

You can define on what cameras a user may watch live images and whether the user can control PTZ and define presets for PTZ cameras.

Live Video		Cameras															
Live Video	<input checked="" type="checkbox"/>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Cameras	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PTZ control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Save presets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

You can define whether the user can use these functions within the Live Video window:

- Right click menu: the user can change the image quality.
- Snapshot: the user can take a snapshot of the image of the selected camera or all cameras.
- Local recording: the user can record images from a selected camera and store these recordings locally.

Right click menu	<input checked="" type="checkbox"/>	Snapshot	<input checked="" type="checkbox"/>	Local recording	<input checked="" type="checkbox"/>
------------------	-------------------------------------	----------	-------------------------------------	-----------------	-------------------------------------

Note: All other functions in the Live video window are by default accessible to every user!

4.2.2.2 Recordings

You can define whether a user can watch recordings (either on Timeline/Postmotion or Backup or both) and on what cameras these recordings may be watched.

Recorded video		Cameras															
Timeline/Postmotion	<input checked="" type="checkbox"/>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Backup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Note: when the user cannot watch Backup recordings, the user also cannot backup any recordings!

4.2.2.3 System settings

You can define whether the user has access to the system settings (= menu 'System'). If you grant the user access to the system settings, you can specify the rights by ticking the options which the user can access.

System		Cameras															
System	<input checked="" type="checkbox"/>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Connections		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ethernet	<input checked="" type="checkbox"/>	Serial	<input checked="" type="checkbox"/>	Video	<input checked="" type="checkbox"/>	Monitor	<input checked="" type="checkbox"/>	Audio	<input checked="" type="checkbox"/>								
I/O	<input checked="" type="checkbox"/>	PresidiumHLI	<input checked="" type="checkbox"/>	Video IC	<input checked="" type="checkbox"/>	Email	<input checked="" type="checkbox"/>										
Behaviour																	
Schedule	<input checked="" type="checkbox"/>	Alarms	<input checked="" type="checkbox"/>	AlarmTx	<input checked="" type="checkbox"/>												
PIR	<input type="checkbox"/>	Recordings	<input checked="" type="checkbox"/>	E-Mail Addressbook	<input checked="" type="checkbox"/>												
Analytics	<input checked="" type="checkbox"/>																
General																	
Time	<input checked="" type="checkbox"/>	Calendar	<input checked="" type="checkbox"/>	Users	<input checked="" type="checkbox"/>												
Maintenance																	
Log	<input checked="" type="checkbox"/>	Transfer	<input checked="" type="checkbox"/>	Configuration	<input checked="" type="checkbox"/>												

4.2.2.4 Status

You can define whether the user has access to the status menu and when access has been granted, whether the user can isolate alarm inputs and/or activate outputs.

Status	
Status	<input checked="" type="checkbox"/>
Isolate	<input checked="" type="checkbox"/>
Activate Outputs	<input checked="" type="checkbox"/>

4.2.2.5 Granting tech rights

When you tick the option “Set tech rights”, you allow this user to grant access for the technician users. (see [Granting the technician](#))

You can also define whether or not the user can arm the video system (change the operational modus). (see [Operational mode](#))

4.3 Modifying an existing user

Open the **Users** window and click 'Edit'.



Change whatever settings you desire and click 'Apply' to save the changes. Don't forget to 'Save' the new settings.

When you want to delete a user, select the user you want to delete and click 'Remove'.



4.4 Granting the technician

Open the **Users** window and click 'Enable'. Mind: you can only enable the technician grant if you have the right to do this.



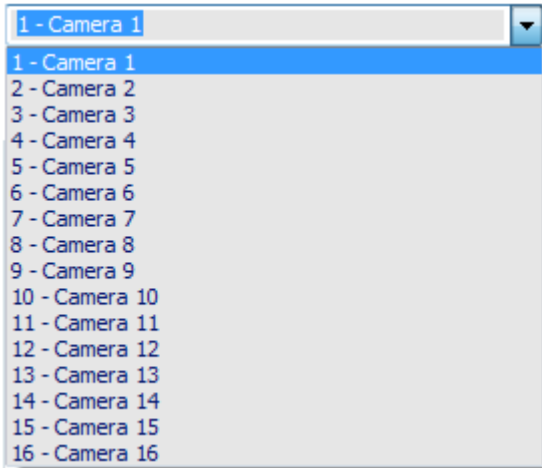
To disable the technician grant, follow the same procedure. The technician grant is also disabled when rebooting the video system.

5 Using IP cameras

5.1 IP camera setup

IP cameras can be connected to the HIPI card or to the main network. 1 HIPI card is required per 8 cameras.

To add an IP camera, you need to connect the camera to the network and open **System > Connections > Video inputs**. Then choose a free camera number from the dropdown list:



Up to 16 cameras can be connected to the FastTrace 2 video system. Up to 8 cameras 1 HIPI card is sufficient, from up to 9 cameras you will need a second HIPI card.

Mind:

You need to configure the HIPI card(s) before configuring the IP cameras.
(see *FastTrace 2 technical manual*)

Tick the IP cam option:

Type

Analog
 IP cam

Select the camera brand and enter the correct IP address, the username and corresponding password of the camera (e.g. "root" for Axis cameras). Check the camera documentation for this password!

Enable IP camera

Remaining Cams	8
Cam brand	AXIS VAPIX 3.0
IP address	10.0.0.11
RTSP port	554
HTTP port	80
Username	root
Password	••••
Confirm password	••••

Treat this cam as a single stream cam

Use stream nbr:

Always update your IP camera to the latest software version. Please refer to the manufacturer's website.

If you tick the option Treat this cam as a single stream cam, only one stream will be used for all features related to the FastTrace 2 server. This means, however, that there will be specific limitations in the FastTrace 2 video system: the only stream that the FastTrace 2 video system will use is the analytics stream. As a result this will be a CIF resolution at 5 fps.

You can set the stream number as well, yet this must be checked on site, as this depends on the stream number being used by the other application.

This advanced setting should only be modified for installing purposes and should therefore be left for the installation engineer to edit!

Click 'Enable' to start using the IP camera.

Then complete these parameters:

Type

Analog IP cam

General

Name M1011 (10.0.0.67)

PIR integrated on camera

Overlay

Local time Camera name

Text brightness Site name

Network

Default live preset

Enable live multicast

Multicast address

Multicast port

PTZ

Use PTZ Control

Protocol

Address

Auto-Home Expire Time (sec.):

Positioning Time (sec.):

Recording parameters

5fps, 480x360 , Qanalytics

5fps, 640x480 , Qnormal


5.1.1 General parameters

Name	Enter a description for the camera (max 20 characters). <i>It is recommended to use a meaningful and relevant description.</i>
PIR integrated on camera	Check this option when a PIR has been integrated on this camera.

5.1.2 Overlay

Local time	Tick this option if you want to visualize the local time on the camera live image.
Camera name	Tick this option if you want to visualize the camera name on the camera live image.
Text brightness	This option is not available for IP cameras. The parameter can be added to the IP camera settings via the web browser.
Site name	Tick this option if you want to visualize the site name on the camera live image.

5.1.3 Network

Default live preset	When watching live images from a camera, the image quality can be adjusted at any time by clicking your right mouse button. The initial quality, applied the first time you select the camera, can be specified with this parameter. You can choose from different preset qualities, depending on the camera. If you choose "Hard disk stream", live pictures will follow the same quality as continuous recordings. This way, only two streams are required.
	With certain types of IP cameras this button becomes active. Via this button you can open the list with possible quality presets. The parameters you can modify here, are: <ul style="list-style-type: none"> - Frames per second (fps) - Resolution of the picture - Quality: VBR quality (Qlow, Qnormal or Qhigh) or CBR bit rate (20 through 2048 kbps). The higher the value, the better the quality, but also the higher the bandwidth use! <i>Remark: for stable image quality VBR is recommended.</i>
Only live multicast *	Multicast is the simultaneous supply of information to one or more computers through only one stream from the source. When multiple computers poll this one stream, multiple copies will be created, but the initial upload will remain the same. Multicast thus ensures less data traffic over the network. The 224.0.0.0 through 239.255.255.255 address range has been assigned for multicasting on the local LAN network. Tick this option if you want to use the multicast protocol.
Multicast address *	Enter the address to which the FastTrace 2 video system has to send the multicast. Mind: every camera should be assigned to a unique multicast address. Everyone who has subscribed to the multicast, can view the live images on this address, using a web browser or a FastTrace 2 Client.
Multicast port *	Enter the multicast port through which the FastTrace 2 has to send the stream. Mind: every camera should be assigned to a unique multicast port. This port must be defined by the IT Department before connecting the FastTrace 2.

*** This advanced setting should only be modified for installing purposes and should therefore be left for the installation engineer to edit!**

5.1.4 PTZ

Use PTZ Control *	Tick this option if you have installed a PTZ camera.
Protocol *	Choose the corresponding protocol for the IP camera you have installed.
Address *	Enter the correct camera address for the IP camera you have installed. Check the camera settings to know the camera address.
Auto-Home Expire Time (sec) *	This value indicates the time in seconds that has to be expired after every PTZ action, before the PTZ camera will move back to its home position. If the value is left to 0, the Auto-Home feature will be disabled.
Positioning Time (sec.) *	PTZ preset positions can be selected via an input. When that input triggers the PTZ action, the camera will move to the configured PTZ preset position, but the alarm message of the input will be delayed until the PTZ preset positioning time has expired. Thus no blurry images are recorded for quad images.

*** This advanced setting should only be modified for installing purposes and should therefore be left for the installation engineer to edit!**

5.1.5 Recording

Recording parameters

Continuous/Pre/Post quality	5fps,480x360 ,Qanalytics
Event quality	5fps,640x480 ,Qnormal

Continuous/Pre/Post quality	This shows the quality that has been configured for continuous recordings and for pre and post event recording.
Event quality	This shows the quality that has been configured for the event recording.

Set the recording parameters by clicking the desired quality.

FastTrace 2 Client Software

Recording quality

Fps: 25 1 - 30 fps

Resolution: 480x270

VBR: Quality Qnormal

CBR:

Ok Cancel

- Fps: the number of images (frames) per second (1 – 25);
- Resolution: the number of pixels per image; depends on the camera type;
- VBR: selects a variable bitrate compression (Qlow, Qnormal or Qhigh);
- CBR: selects a compressed bitrate compression (value 20 – 2048 kbps); the higher the value, the higher the compression and the higher the loss of quality; the compression levels will differ according to the constant data flux in which the file size is predictable, but the quality will depend on the video contents.

VBR with Qnormal quality is recommended!

Click 'Save'.

Remark:

Before using the IP camera, you need to set up a static IP address in the camera, create a password for the user "root" and set the date and time. You can adjust the time and date manually or you can synchronize the camera in the FastTrace 2 to an NTP protocol.

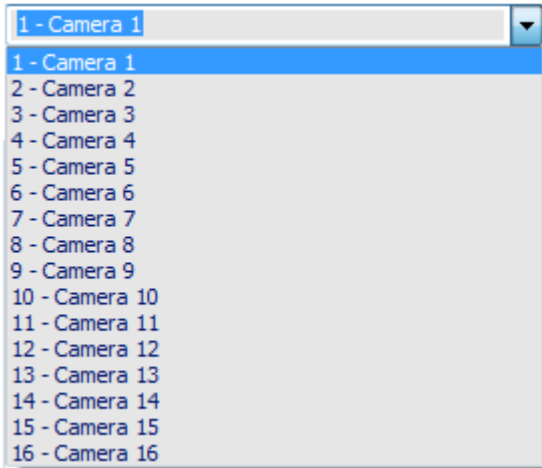


Check the manual provided with the camera for more information on setting up the IP address, password and clock.

6 Using analogue cameras

6.1 Camera Configuration

To add an analogue camera, you need to connect the camera to the video system and open **System > Connections > Video inputs**. Then choose a free camera number from the dropdown list:



Up to 16 cameras can be connected to the FastTrace 2 video system. For every camera 1 A/V input is required.

Tick the “analogue” option:

Type

Analog IP cam

Select the BNC input and click ‘Enable’.

Enable analog camera

Select BNC

BNC Input 6

BNC Input 1
BNC Input 3
BNC Input 5
BNC Input 6
BNC Input 7
BNC Input 8
BNC Input 9
BNC Input 10
BNC Input 11
BNC Input 12
BNC Input 13
BNC Input 14
BNC Input 15
BNC Input 16

When enabled you can adjust some parameters:

Type

Analog IP cam

General

Name Camera 2 BNC Input 2

Overlay

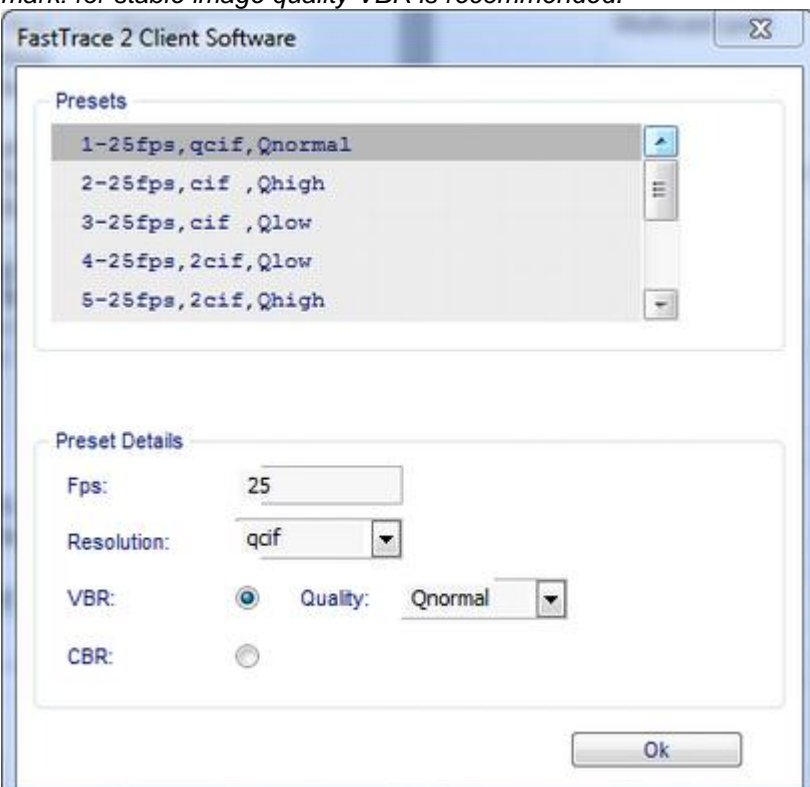
Local time Camera name
Text brightness Gray Site name

Network

Default live preset 5-25fps, dcif, Qhigh ...
Only live multicast
Multicast address
Multicast port 0

PTZ

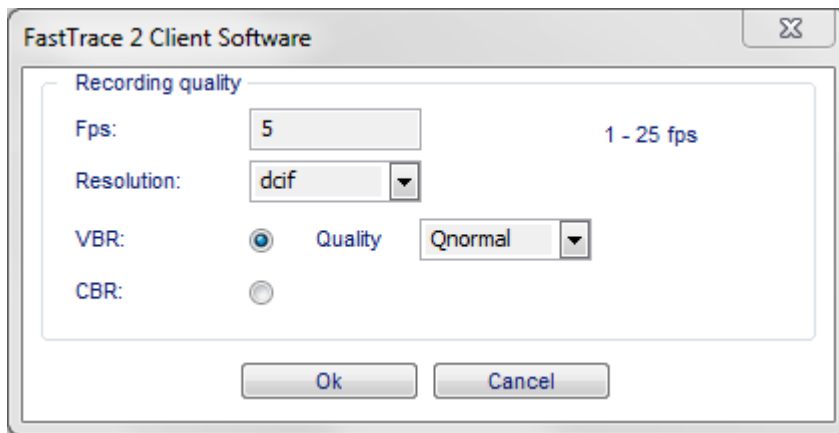
Use PTZ Control
Protocol /dev/ttyU6 - -
Address 1

Parameter	Description
* Type: Enable/Disable	Choose whether you want to enable or disable this video input. When no camera is connected, it is recommended to disable the input to ensure no faults can be generated.
General: Name	Enter a description for the camera (max 20 characters). <i>It is recommended to use a meaningful and relevant description.</i>
Overlay: Local time	Tick this option if you want to visualize the local time on the camera live image.
Overlay: Camera name	Tick this option if you want to visualize the camera name on the camera live image.
Overlay: Text brightness	Tick this option if you want to choose the text colour of the overlay information on the camera live image. It is recommended that you choose a text colour that contrasts with the image background colour.
Overlay: Site name	Tick this option if you want to visualize the site name on the camera live image.
Network: Default live preset	When watching live images from a camera, the image quality can be adjusted at any time by clicking your right mouse button. The initial quality, applied the first time you select the camera, can be specified with this parameter. You can choose from different preset qualities, depending on the camera. If you choose "Hard disk stream", live pictures will follow the same quality as continuous recordings. This way, only two streams are required.
...	<p>With certain types of cameras this button becomes active. Via this button you can open the list with possible quality presets.</p> <p>The parameters you can modify here, are:</p> <ul style="list-style-type: none"> - Frames per second (fps) - Resolution of the picture - Quality: VBR quality (Qlow, Qnormal or Qhigh) or CBR bit rate (20 through 2048 kbps). The higher the value, the better the quality, but also the higher the bandwidth use! <p><i>Remark: for stable image quality VBR is recommended.</i></p> 

* Network: Only live multicast	Multicast is the simultaneous supply of information to one or more computers through only one stream from the source. When multiple computers poll this one stream, multiple copies will be created, but the initial upload will remain the same. Multicast thus ensures less data traffic over the network. The 224.0.0.0 through 239.255.255.255 address range has been assigned for multicasting on the local LAN network. Tick this option if you want to use the multicast protocol.
* Network: Multicast address	Enter the address to which the FastTrace 2 video system has to send the multicast. Mind: every camera should be assigned to a unique multicast address. Everyone who has subscribed to the multicast, can view the live images on this address, using a webbrowser or a FastTrace 2 Client.
* Network: Multicast port	Enter the multicast port through which the FastTrace 2 has to send the stream. Mind: every camera should be assigned to a unique multicast port. This port must be defined by the IT Department before connecting the FastTrace 2.
* PTZ: Use PTZ Control	Tick this option if you have installed a PTZ camera.
* PTZ: Protocol	Choose the corresponding protocol for the camera you have installed.
* PTZ: Adres	Enter the correct camera address for the camera you have installed. Check the camera settings to know the camera address.

*** This advanced setting should only be modified for installing purposes and should therefore be left for the installation engineer to edit!**

Set the recording parameters by clicking the desired quality.



- Fps: the number of images per second (1 – 25);
- Resolution: the number of pixels per image; depends on the camera type;
- VBR: selects a variable bitrate compression (Qlow, Qnormal or Qhigh);
CBR: selects a compressed bitrate compression (value 20 – 2048 kbps); the higher the value, the higher the compression and the higher the loss of quality; the compression levels will differ according to the constant data flux in which the file size is predictable, but the quality will depend on the video contents.
VBR with Qnormal quality is recommended!

Click 'Save'.

6.2 Camera URLs

You can always open a Client version for a specific camera via a web browser (e.g. Internet Explorer) if you do not have the client software on your PC. You will need to install the ActiveX on your PC in order to be allowed access.

To open a specific window of the client, provide the IP address of the FastTrace 2 in the address bar, followed by */index.php?* and – if required – also one of these parameters:

Parameter	Description	Possible values
page=	Open a certain menu in the client.	live timeline postmotion status settings system about file
subpage=	Open a certain submenu in the client (can only be used for the menus <i>settings</i> and <i>system</i>).	motion recording addressbook matrix ethernet video audio alarms io serial videoic alarmtx email clock config
autostartmask=	This value sets the cameras you want to see. The value should be a decimal number corresponding to a binary code.	1 (binary 0001) = camera 1 3 (binary 0011) = camera's 1 en 2 8 (binary 1000) = camera 4
username=	Enter the desired user.	0 (= administrator) 15 (= technician)
password=	Enter the correct password for the user.	666777
uid=	Download the selected recording.	0a0000f7a45a6500
uid_save_filename= =	Download the selected recording and store it with the provided file name (= optionally).	
notcp	By default TCP is used. If you want to use UDP instead, you need to add this parameter.	
nogui	Use the simplified view (without menu).	

To add multiple parameters in the address bar, type “&” between the parameters. Mind: no intervals are allowed in the address bar!

An example: open camera 1 with UDP in simplified view

<http://10.0.2.41/index.php?autostartmask=1&username=0&password=666777¬cp&nogui>

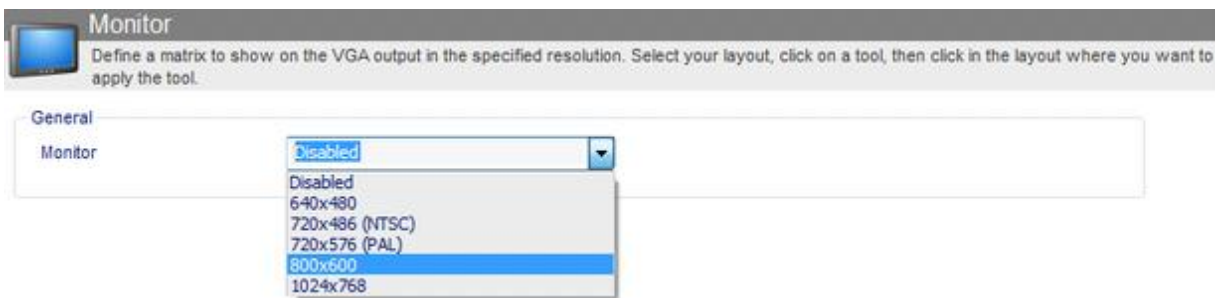
7 Video monitor

7.1 Connection

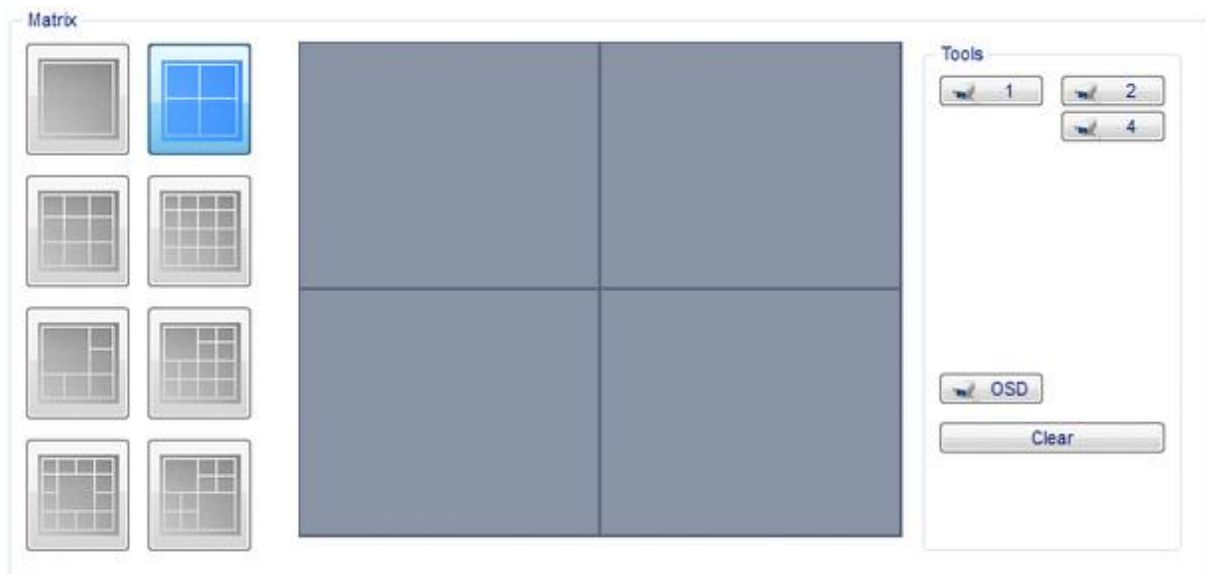
A monitor can be connected to the SVGA or digital interface of the FastTrace 2 server. For a video monitor, an external VGA to PAL converter can be used.

7.2 Configuration

Open the *Monitor* menu via **System > Connections > Matrix** and select the monitor resolution.



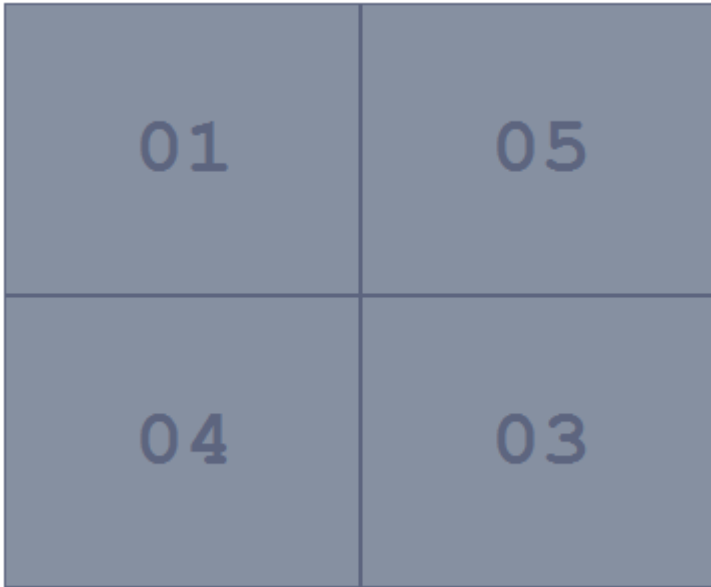
Select the layout of the virtual matrix.



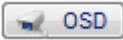
Select the desired camera in the *Tools* section and click one of the boxes in the matrix preview window.

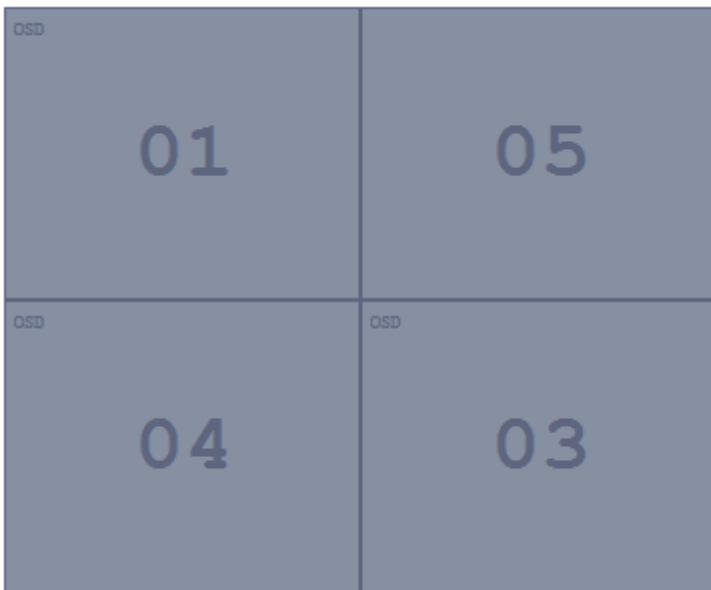
Each camera can only be once assigned to the matrix preview window. When you click the same camera and another box, the previous box will be cleared. To clear the box manually right click on the box in the matrix preview window.

You can choose whatever order of cameras you like.



Click 'OSD' if you want the camera name to be shown in the matrix. OSD stands for "On Screen Display".

You need to click the  button to activate it. Then click all boxes you want OSD to be active in. The indication OSD appears in the upper left corner of the box.



Click 'Save' to safeguard the new settings.

7.3 Resolution

The image resolution for the monitor display is always CIF / SIF with Qnormal quality.

8 Alarms

8.1 Arming/Disarming the video system

Events on the FastTrace 2 can be classified in the following groups:

- system messages: these are internal events (e.g. hard disk error, power supply fault, communication error, ...);
- camera messages (e.g. video signal missing, contrast level too low, motion detected, ...);
- network inputs: alarm inputs connected to external Net IO modules
- inputs: alarm inputs connected to the OTB IO card, accessible at the back of the video system;
- virtual inputs: events detected on interconnected S3100 security panels.

Events have to be handled in a different way when the building is left unattended. Therefore, the building has to be armed. Arming can be done in three ways:

- 1) automatically according to a schedule;
- 2) manually, by a user who has to activate a switch;
- 3) by the CMS, executing the DN command line in TELNET (hint: type HE for syntax help).

To define the behaviour of an alarm input during armed and disarmed state, modify the alarm profile that is assigned to this input.

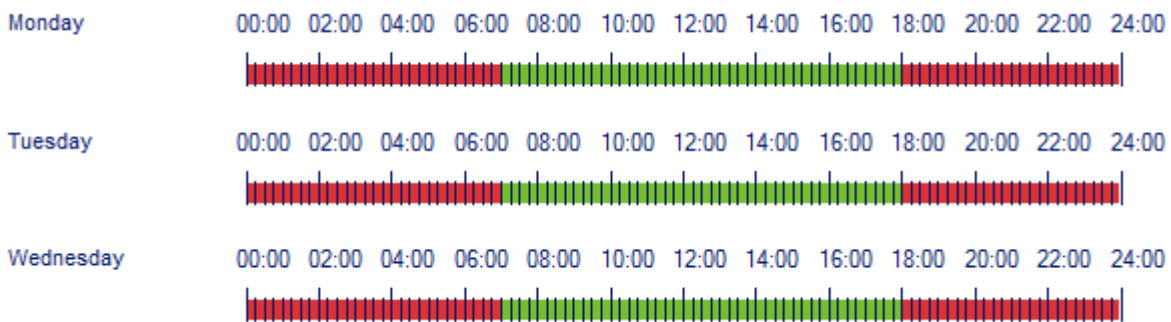
Remark:

It is possible for other software developers to use the SDK (software development kit) in order to arm/disarm a building.

8.1.1 Arm/Disarm schedule

To insert a schedule to automatically arm/disarm a building, open **Settings > Behaviour > Arm/Disarm schedule**.

By default the system is always disarmed. To automatically arm the system for a given period, click 'Armed' in the *Tools* section and drag the mouse pointer over the desired period. The selected period will be indicated with a red bar.

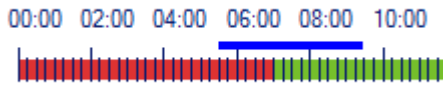


Click 'Save' to apply the new settings.

! The video system will be (dis)armed at the beginning of the programmed time zone. A switch can always force the system to another state.

Hint:

To zoom in on a part of the day, position the mouse pointer on the time scale, press the left mouse button and drag the mouse to the right (drawing a blue line). Release the mouse button.



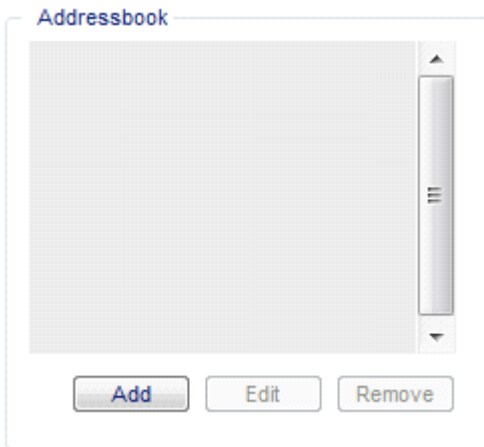
To zoom out, position the mouse pointer on the time scale and click the right mouse button.

8.1.2 Arm/Disarm Switch

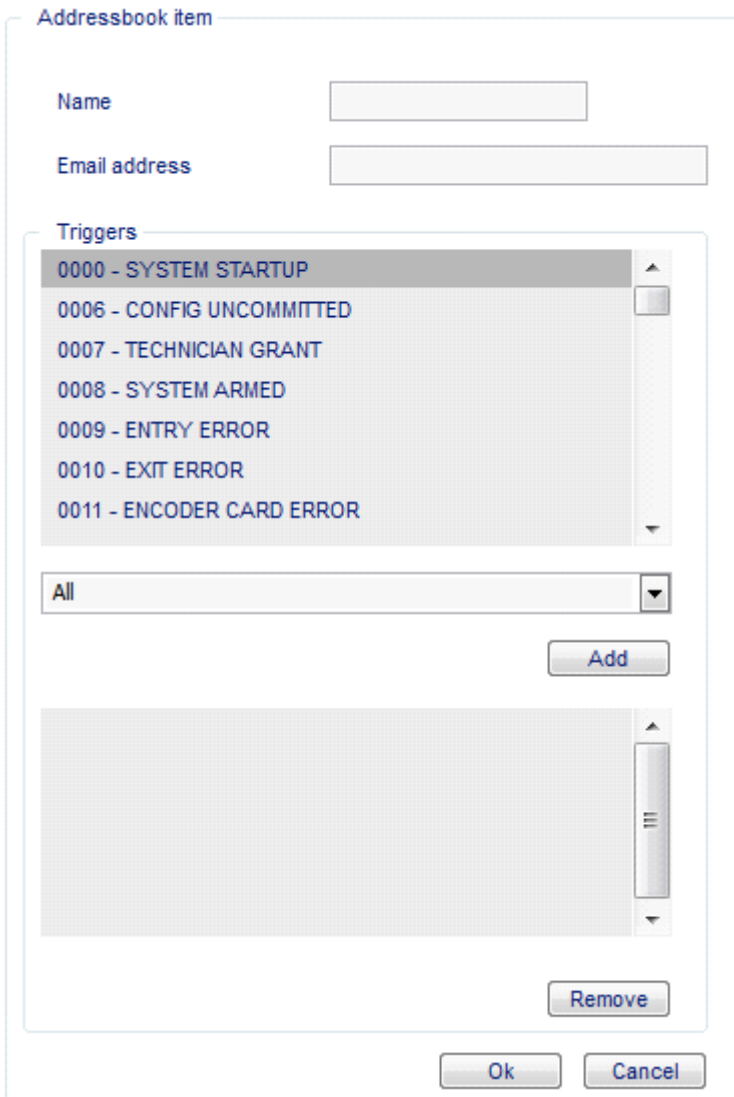
To define an arm/disarm switch, check the FastTrace 2 technical manual.

8.2 Email address book

Open the address book window via **System > Behaviour > Email Addressbook**. Click 'Add' to add a new contact.



A new section will appear to the right.

A screenshot of the 'Addressbook item' dialog box. It contains the following elements:

- 'Name' text label and an empty text input field.
- 'Email address' text label and an empty text input field.
- 'Triggers' section with a list box containing:
 - 0000 - SYSTEM STARTUP
 - 0006 - CONFIG UNCOMMITTED
 - 0007 - TECHNICIAN GRANT
 - 0008 - SYSTEM ARMED
 - 0009 - ENTRY ERROR
 - 0010 - EXIT ERROR
 - 0011 - ENCODER CARD ERROR
- A dropdown menu below the list box, currently set to 'All'.
- An 'Add' button below the dropdown menu.
- A large, empty list area with a vertical scrollbar at the bottom of the dialog.
- A 'Remove' button below the empty list area.
- 'Ok' and 'Cancel' buttons at the bottom of the dialog.

Enter the name and email address of the recipient.

Select the different notifications that you want to send to this recipient. You can add selections by selecting a trigger and clicking 'Add'.

You can also delete a trigger from the list. Select the desired trigger in the list and click 'Delete'. This will only delete the trigger from the recipient's list of triggers, and not the trigger itself.

Click 'OK' and 'Save' to apply the new settings.

Remark:

If the event has a "silent alarm" profile, no mail will be sent to any of the recipients!

9 Operational mode

The video system can be switched to 4 different operational modes. Each mode can affect the behaviour of the video recorders.

Mode selection can be done:

- Automatically according to a time schedule;
- Manually (by activating an input);
- Via the CMS (= execution of a TELNET command). (*For syntax help in TELNET, type HE*)

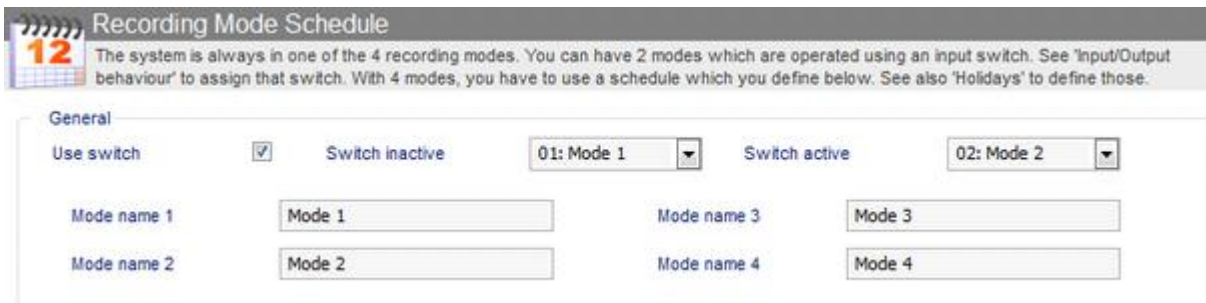
It is also possible for third party software using the *Adpro FastTrace 2 Software Development Kit (SDK)* to change the operational mode.

To create a video recording that behaves differently in function of the selected mode, read the chapter on [Recording](#).

9.1 Operational mode with manual selection

In order to use the mode time schedule, you need to specify the times for changing the operational mode. Open **System > Behaviour > Recording Mode Schedule**.

By default the system will be operating in mode 1 during the whole schedule. Tick the option "Use switch".



You can also provide a specific name (max 20 characters) for each operational mode. It is recommended to use a meaningful and relevant description.

Example of relevant description:

- mode 1 = DAY
- mode 2 = NIGHT
- mode 3 = HOLIDAY (can only be used with operational mode with time table)
- mode 4 = EMERGENCY (can only be used with operational mode with time table)

Click 'Save' to apply the new settings.

To activate an input as operational mode switch, read the FastTrace 2 technical manual.

Mind:

When choosing for manual selection, only two modes can be used!

9.2 Operational mode with time schedule

In order to use the mode time schedule, you need to specify the times for changing the operational mode. Open **System > Behaviour > Recording Mode Schedule**.

By default the system will be operating in mode 1 during the whole schedule. Untick the option “Use Switch”. When ticked, this option sets manual change of the operational mode.

By default the system will be operating in mode 1 during the whole schedule. All time periods are completely red.

To define a period where another operational mode is required, select the desired mode (in the “Tools” section) and drag the mouse pointer over the desired period. The selected period will be indicated in another colour:

- red = mode 1
- green = mode 2
- yellow = mode 3
- blue = mode 4

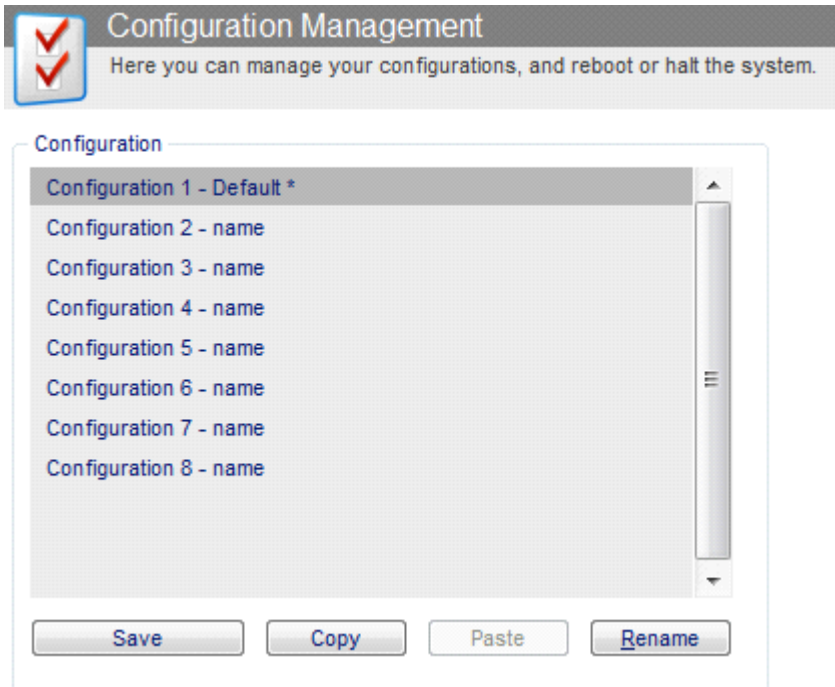
The screenshot displays the 'Recording Mode Schedule' interface. The main area is a grid with days of the week (Monday to Sunday and Holiday) on the y-axis and time slots (00:00 to 24:00) on the x-axis. Each time slot is represented by a small colored bar indicating the operational mode. The bars are color-coded: red for mode 1, green for mode 2, yellow for mode 3, and blue for mode 4. To the right of the grid is a 'Tools' panel with buttons for Mode 1 (red), Mode 2 (green), Mode 3 (yellow), Mode 4 (blue), and Copy Monday. At the bottom right is a 'Save' button with a green checkmark.

Click 'Save' to apply the new settings.

10 Configuration

10.1 Storing a configuration

Open the "Configuration Management" window via **System > Maintenance > Configuration Management**.



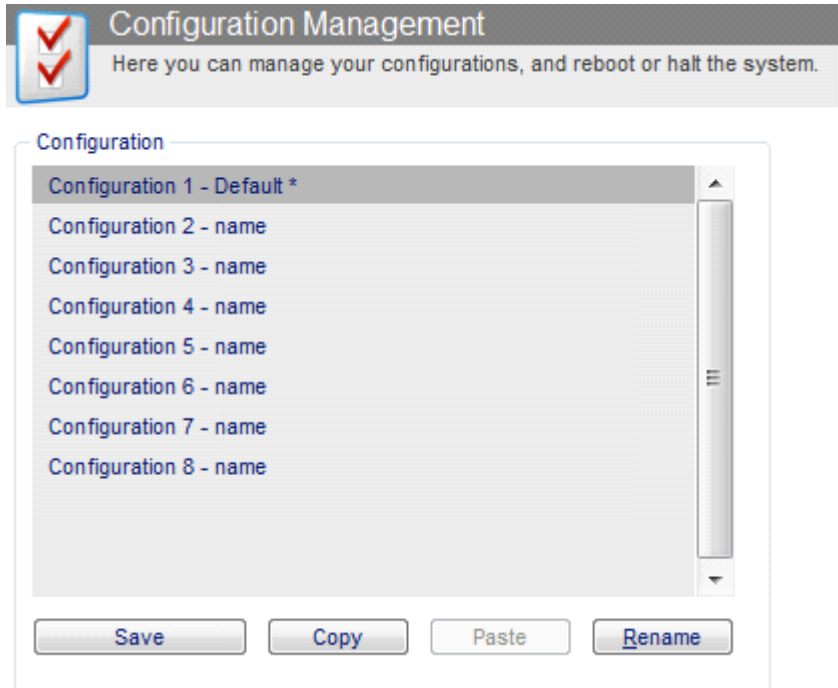
The video system can store up to 8 different configurations. Only 1 configuration can be active. The active configuration is marked with an asterisk.

Select a configuration. Click 'Save' to store the current settings under the selected configuration. Click 'Rename' to provide a new description to the selected configuration. It is recommended to use a meaningful and relevant description.

You can also copy the selected configuration by clicking 'Copy'. At that moment the 'Paste' button becomes active. You can now choose another configuration and click 'Paste' to provide the same settings to the newly selected configuration. Afterwards (small) modifications can be made to the new configuration.

10.2 Activating a configuration

Open the “Configuration Management” window via **System > Maintenance > Configuration Management**.



Select a configuration from the list and click ‘Activate configuration’ in the “Boot” section.

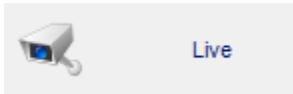


When you click ‘Factory defaults’ all modified configurations will be deleted. Your FastTrace 2 video system will also be given the default IP address 10.0.0.10!

You can restart the FastTrace 2 video system by clicking ‘System restart’. If you want to stop the video system, click ‘System halt’. It is recommended to halt the system before switching off power.

11 Watching live images

Click **Live** to watch live video streams.



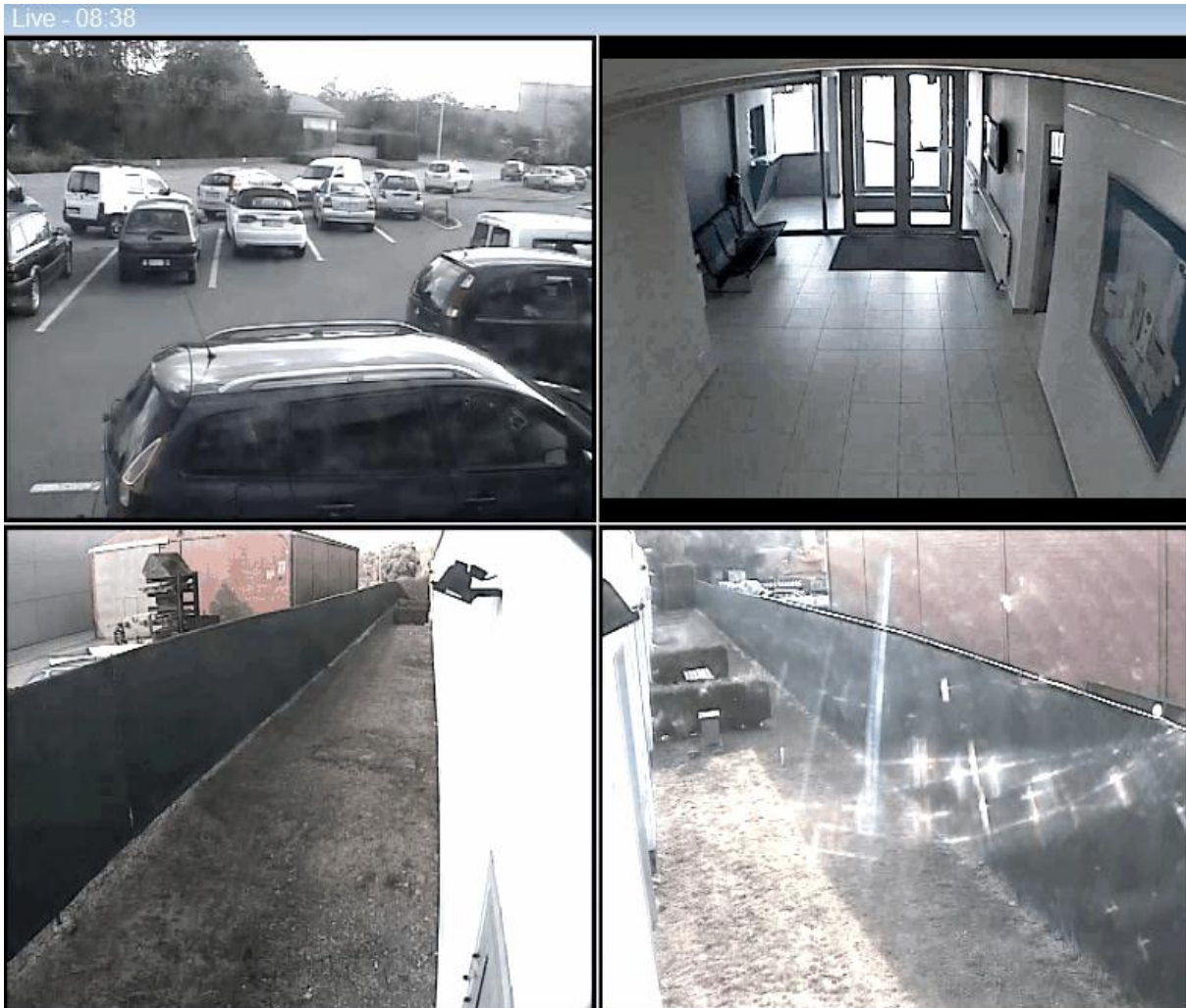
Select one or multiple cameras in the *Cameras* section.



When selecting only 1 camera, the window is fully taken by this camera's live stream.



When selecting multiple cameras, several camera streams will be visualized. The layout is rearranged automatically, to make sure all images are equally large. If you select 2 to 4 cameras, the display will automatically adjust to “quad” (= 4 images). With 5 to 9 cameras selected, you will automatically get 9 images and with 10 to 16 selected cameras, you will see 16 images.



You can double click (with the left mouse button) one of the images to get a full screen view of the specific image. Double click it again to see all the images.

The quality of the image (resolution) has been defined in the video settings. Open **System > Connections > Video inputs** and select the desired video.

Network

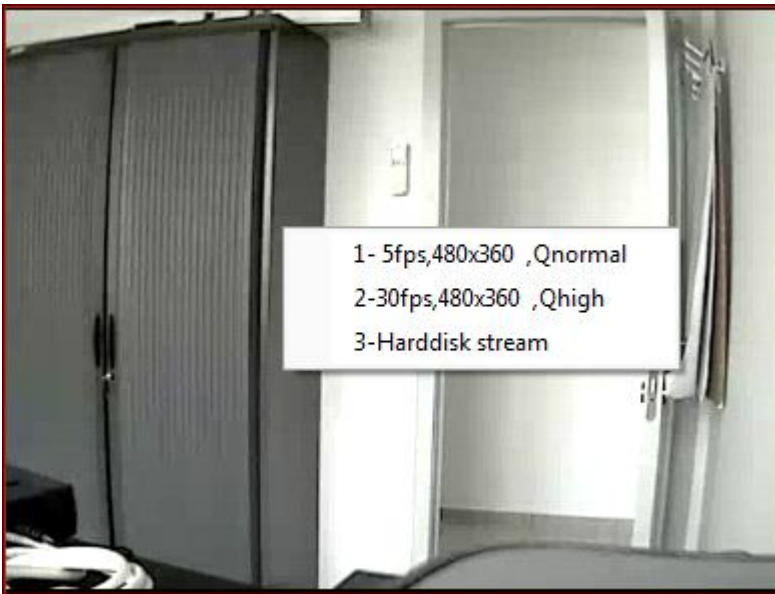
Default live preset: 1- 5fps, 480x360 , Qanalytic

Only live multicast:

Multicast address:

Multicast port: 0

To adjust the quality of the image temporarily in the Live mode, click the right mouse button and select one of the options.



The options that are given depend on the type of camera you are using.

Limitations on live video streaming

For **DS40xx A/V cards** there is one separate video processor for each group of 4 analogue cameras (video in 1-4, 5-8, 9-12 and 13-16). If 4CIF resolution is applied to at least one camera within the same group, following limitations will apply to live streaming within this group of cameras (due to processor limits):

Number of enabled cameras within the same group	Live video resolution
1 – 2	no limits
3	only QCIF or CIF (25 ips); or the same quality as recording (hard disk stream)
4	only QCIF (25 ips); or the same quality as recording (hard disk stream)

For **DS42xx A/V cards** the limitations are set per camera (and no longer per camera group). If recording quality is set to 4CIF/4SIF the maximum quality for Live viewing is CIF/SIF or QCIF/QSIF or the same quality as recording (hard disk stream). When 2CIF/2SIF is applied for recording, only CIF/SIF, QCIF/QSIF and 2CIF/2SIF are possible with live viewing. Each time the maximum fps (images per second) equals 25. All other combinations are of course possible.

Live streaming quality is defined under **System > Connections > Video inputs > Network: Default live preset**.

Video Inputs
 Define which cameras you have attached to the system here. Also OSD, Multicast and default live presets are configurable here.

- 1 - Camera 1
- 2 - Camera 2
- 3 - Camera 3
- 4 - Camera 4
- 5 - Camera 5
- 6 - Camera 6
- 7 - Camera 7
- 8 - Camera 8
- 9 - Camera 9
- 10 - Camera 10
- 11 - Camera 11
- 12 - Camera 12
- 13 - Camera 13
- 14 - Camera 14
- 15 - Camera 15
- 16 - Camera 16

Quad alarm for all cameras

QUAD image interval (s)

Type

Analog
 IP cam

General

Name BNC Input 2

PIR integrated on camera

Overlay

Local time Camera name

Text brightness Site name

Network

Default live preset

Enable live multicast

Multicast address

Multicast port

PTZ

Use PTZ Control

Protocol

Address

Auto-Home Expire Time (sec.):

Positioning Time (sec.):

Recording parameters

5fps,dcif,Qnormal
 5fps,4cif,Qnormal

To set 4CIF/4SIF as default live preset, you need to define the recording quality to 4CIF/4SIF first, and select hard disk stream as default live preset.

11.1 Enable/disable analytic bounding box rendering

The bounding boxes of the analytics can be displayed in the live and recorded view. This feature can be enabled/disabled in the *Cameras* section by clicking the eye button.

	The analytic bounding box rendering is enabled. This is also the default setting.
	The analytic bounding box rendering is disabled.

11.2 Tools

To the right you can find the section "Tools". Here you can start/stop a manual recording and/or take a snapshot image of a specified live stream view.



11.2.1 Info display



Click **Info** in the section *Tools* to visualise the information of the camera:









Legend:

	Video streaming status: - green = connection OK - red = connection error - grey = camera not connected
Camera 5	Camera name
480x360	Resolution
16 Fps	Number of frames per second
	Local video recording (on hard disk of your PC): - red = recording locally - grey = not recording locally
	Audio recording: - red = recording audio - grey = not recording audio When no audio is available the loudspeaker icon is crossed out:
	Video recording (on the hard disk of the video system): - blue = recording - grey = no recording
	Tamper alarm! The camera lens is covered or the system has been damaged/opened. - green = tamper alarm active - grey = no tamper alarm
	Motion detection - green = motion detected - grey = no motion detected

11.2.2 Taking a snapshot

Via the button  **Snapshot**  **All** you can take a snapshot image of the video streams that are being shown at that specific moment. These snapshots can be stored as image (jpg format) on your local hard disk (or a network folder you can access from your PC). You can also directly print the snapshots.







 05 	Use these arrows to navigate to the different snapshots that have been taken.
	Save the snapshot that is shown to a folder on your local hard disk or a network folder.
	Save all snapshots to a folder on your local hard disk or a network folder.
	Print the snapshot that is shown to a printer of your choice.
	Print all snapshots to a printer of your choice.


If you select an image (= click the image in the live view with the left mouse button), a red border will appear around that image.



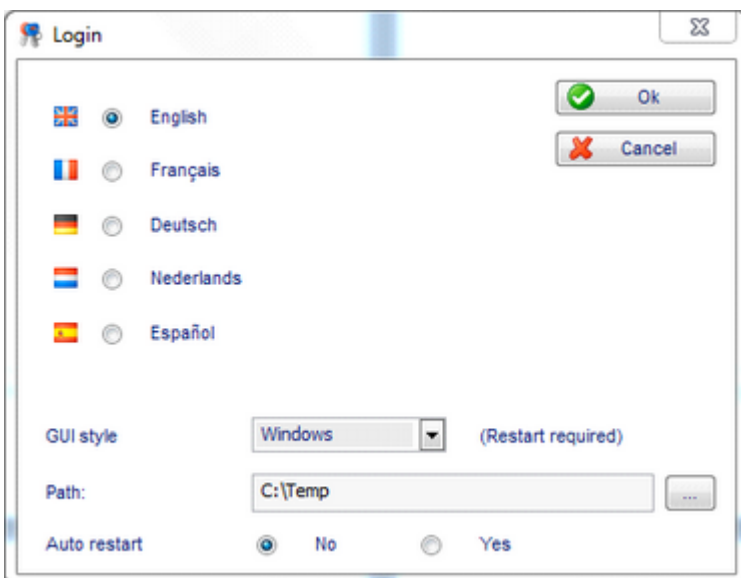
You notice that two extra buttons have become active in the “Tools” section:

 Snapshot	 All	Take a snapshot of the selected image.
 Record	 All	Record the selected camera locally on your hard disk.



The snapshot file names contain the camera number and the time of taking the snapshot in the format year – month – day – hour – minutes – seconds.



 Snapshot - 01 - Main entrance - 2011-03-29 15-25-18

By default the work folder is selected to store the snapshot images. If you want to change the work folder, click ‘Settings’ at the login window:

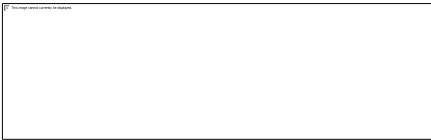


11.2.3 Local video recordings

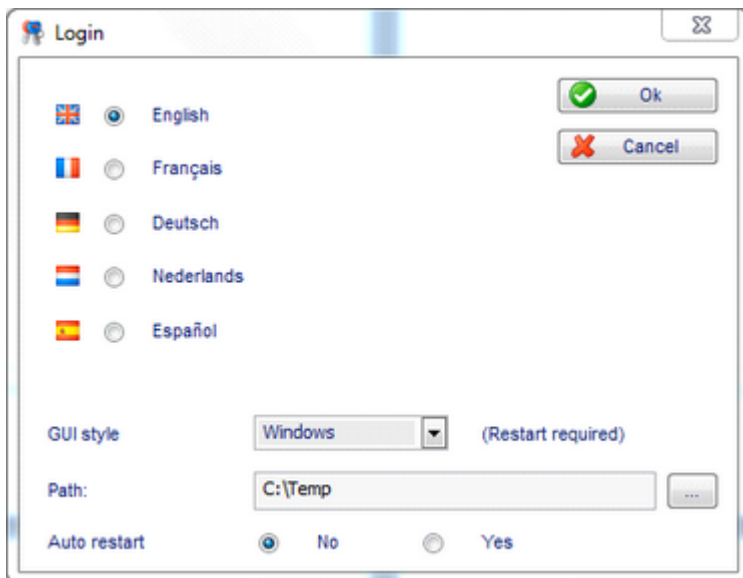
With the buttons  **Record**  **All** you can store recordings locally (on the hard disk of your PC or a network folder).

Click the  button to start the recording. When a camera is recording locally, you can see a blue ball in the info section: . Click the same button to stop the recording.

The video recording file names contain the camera number and the time of recording in the format *year – month – day – hour – minutes – seconds*. The files are stored with the extension “.hbox”.



By default the work folder is selected to store the snapshot images. If you want to change the work folder, click ‘Settings’ at the login window:



11.2.4 Audio

Select a camera. If it is a camera that supports audio (see *Audio IN*), you can activate the audio.













Click on the loudspeaker to listen. The volume can be regulated through the slider. Click and hold the left mouse button on the slider and move the mouse to the desired level.

You can also talk to people if a microphone has been connected. Click and hold the left mouse button on the microphone. Also the volume of the microphone can be adjusted through the slider.

11.3 PTZ control

In the section PTZ you can control the PTZ camera.

	<p>Use the arrows to move the camera to the left or right and up or down. Use the "Home button" in the middle to move the camera to the selected preset position (= start position).</p>
	<p>When this button is lit (orange arrows), you can use digital zoom. Simply select a camera and you will see that the mouse indicator changes. Click the left mouse button and hold it to zoom in. To zoom out press the Shift key and the left mouse button. When zoomed in, the text "Digital Zoom" appears (in green letters) on the image.</p>  <p>Camera 1 480x360 4 Fps V:1.17 kB/s A:0.00 kB/s</p>
<p>Speed</p> 	<p>This slider adjusts the moving speed of the PTZ camera when using the player's built-in controls.</p>
<p>Zoom</p> 	<p>With this function you can zoom in or zoom out on a selected image.</p>
<p>Focus</p> 	<p>Click the middle button to manually adjust the focussing. Use the + and – buttons to adjust.</p>
<p>Iris</p> 	<p>Click to manually adjust the iris. Use the + and – buttons to adjust.</p>
<p>Wash/Wipe</p> 	<p>Click to wash and/or wipe the lens of the outdoor camera. The camera has to have this feature of course.</p>
<p>Preset</p> 	<p>Store the camera position. Open the drop-down list to select one of the 4 possible camera preset positions. Click the floppy disk button to store the actual camera position in the selected preset number. Click the wastbin button to remove the preset position from the list.</p>
<p>Aux</p> 	<p>Enable or disable the selected auxiliary function on the camera. Auxiliary camera functions vary depending on the camera model. Please read the ADPRO Tech Tips for more information about auxiliary camera functions.</p>

PTZ shortcut keys on the keyboard:

- Arrow keys (up, down, left, right);
→ separate arrow keys on the keyboard or arrow keys on the numeric keyboard (with Num Lock OFF)
- Home = Zoom in;
- Page Up = Zoom out;
- End = Focus near;
- Page down = Focus far;
- Shift = Shift key enabled (only applies to new PTZ control).

IMPORTANT:

Telemetry station manufacturers provide a variety of models and features. The FastTrace 2 provides PTZ control ability for a number of popular models and where possible, supports the features provided by the manufacturer. Due to the number of models available on the commercial market details of connection and use for individual models have been provided in this manual. Xtralis does, however, have tech tips available for these cameras on the website <http://www.xtralissecurity.com>.

12 Recording

12.1 Continuous recording

Open the *Recordings Behaviour* window via **System > Behaviour > Recordings Behaviour**.

Recordings Behaviour
Here you can define when the system will record.

Recording conditions

Continu Camera 1 - Cam: 1 - Cont: 00:00-23:59

Name:

General

Maximum days recording: (0 = unlimited number of days)

To add a new recording, enter a name (max 20 characters) and click **Add**.

Recordings Behaviour
Here you can define when the system will record.

Name

Cameras
 1 2 4

Dates
Mo Tu We Th Fr Sa Su Ho

1 January -> 31 December

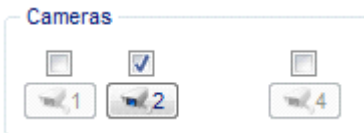
How to record
 Time based Mode based Lock:

Continuous: 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00
Event: 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00

Events
 Combination:

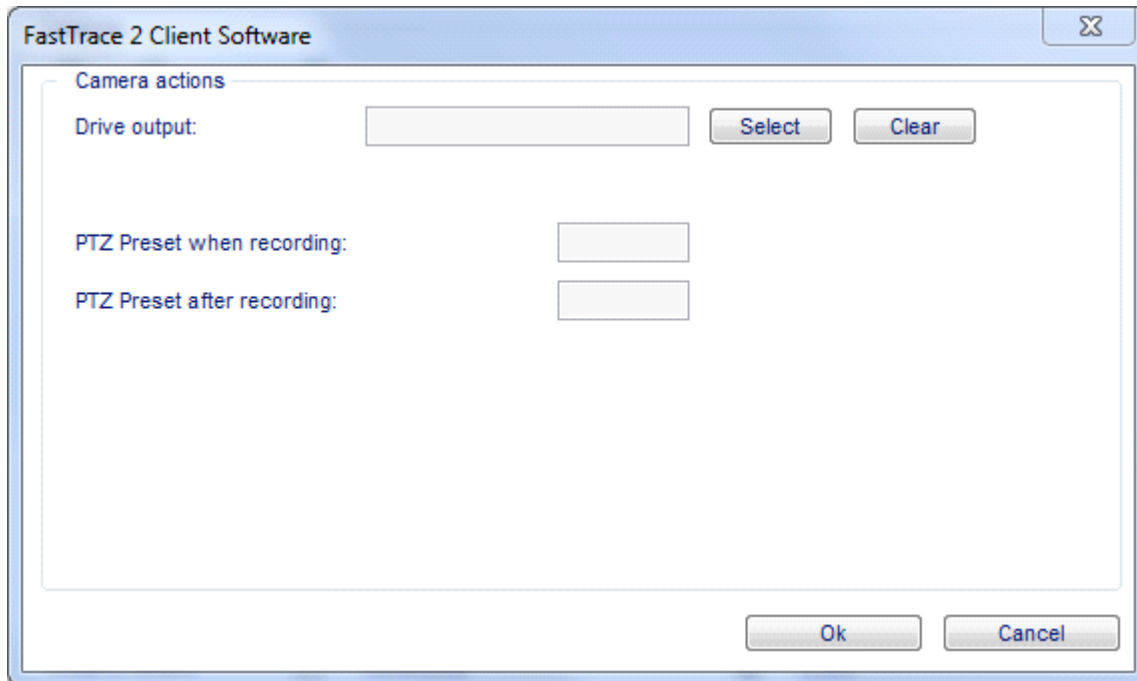
Recording length
 Event duration
5 Sec @ 30 Sec 0 Sec
Always start new recording:

Tick the desired camera. You can tick multiple cameras if necessary.



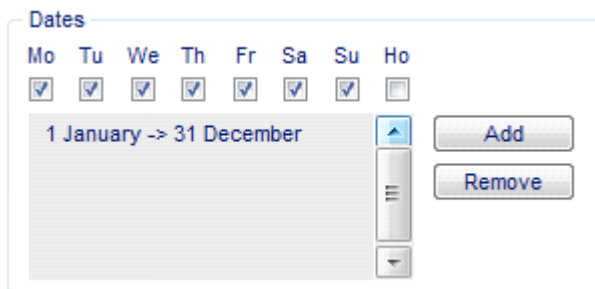
Click the camera number to:

- activate an output when recording;
- go to a preset position (PTZ) when the recording is started;
- go to a preset position (PTZ) when the recording is ended.



Click **OK** to save and apply any modifications you might have made and return to the previous window.

Next, tick the days on which the specific recording should be made. The recording is by default active during the full year. If you want this recording to apply only for limited periods, delete the listed period and add a customized period.



The last checkbox you can tick refers to holidays that have been defined (see [Adding holidays](#)).

You can add multiple periods in which the recording should be active.

Next, you can specify when exactly the recording has to take place.

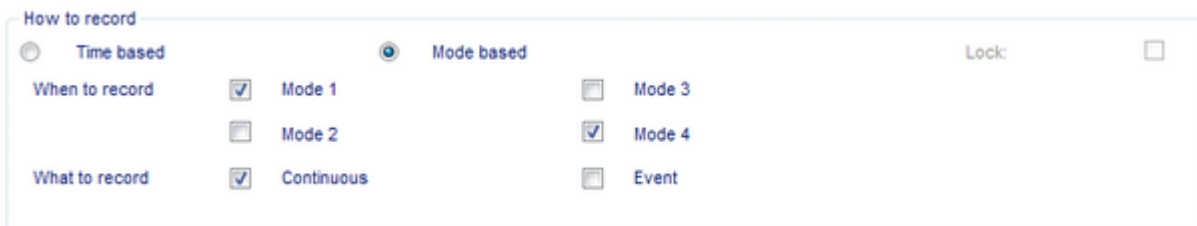
Select **Time based** to activate the recording in function of a time schedule. Click and hold the left mouse button and drag the mouse over the *Continuous* time scale to mark the time zone during which the recording should be active. To correct for errors, right click the time scale to clear the time zone and retry.

Up to 8 time zones can be defined!



Select **Mode based** to activate the recording in function of the operational mode of the video system. The operational mode (1 to 4) is programmed automatically (with mode schedule) or manually (with switch).

See also [Operational mode](#).



Tick **Continuous** for *What to record*.

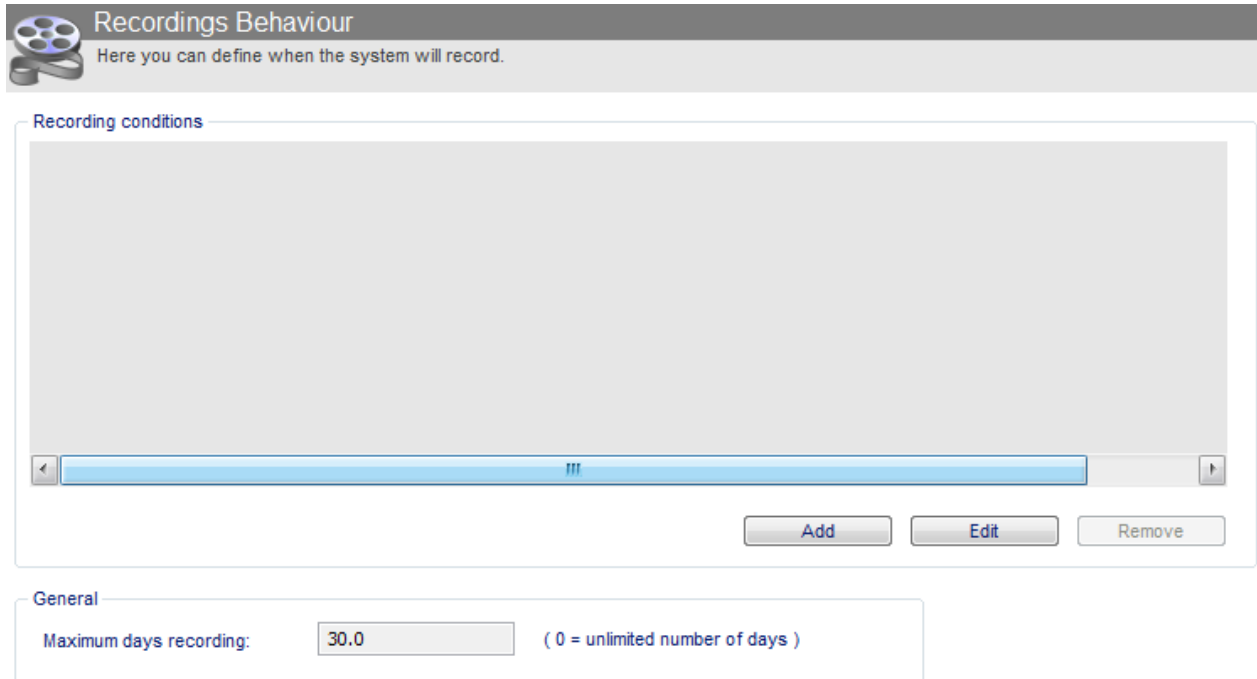
Click **OK** and **Save** to apply the new settings.

Mind:

There is no continuous recording allowed with the TRANSMITTER license system!

12.2 Recording on event

Open the *Recordings Behaviour* window via **System > Behaviour > Recordings Behaviour**.



Recordings Behaviour
Here you can define when the system will record.

Recording conditions

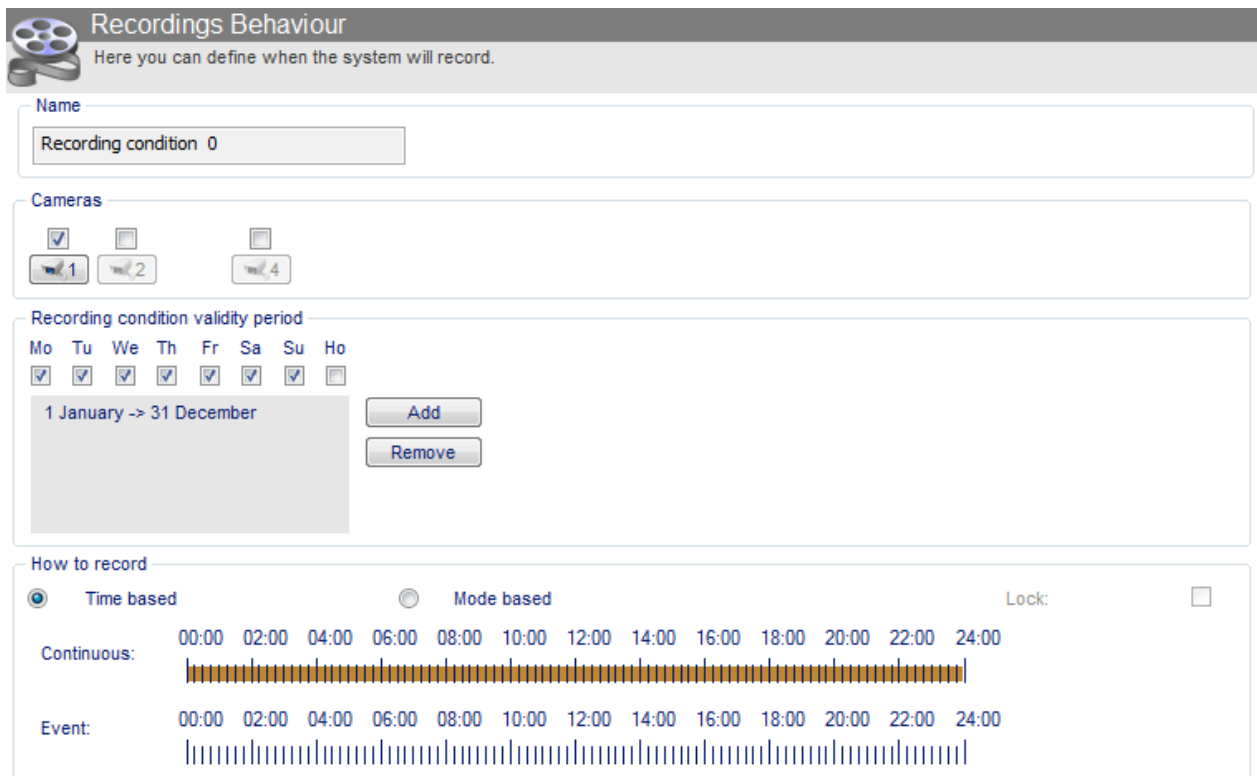
Recording conditions list (empty):

Buttons: **Add** **Edit** **Remove**

General

Maximum days recording: (0 = unlimited number of days)

To add a new recording, click **Add**.



Recordings Behaviour
Here you can define when the system will record.

Name

Cameras

1 2 4

Recording condition validity period

Mo Tu We Th Fr Sa Su Ho

1 January -> 31 December

Buttons: **Add** **Remove**

How to record

Time based **Mode based** Lock:

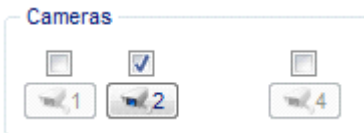
Continuous: 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00

Event: 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00

A default name ("Recording condition #") is provided, but you can change this with your own description (max 20 characters).

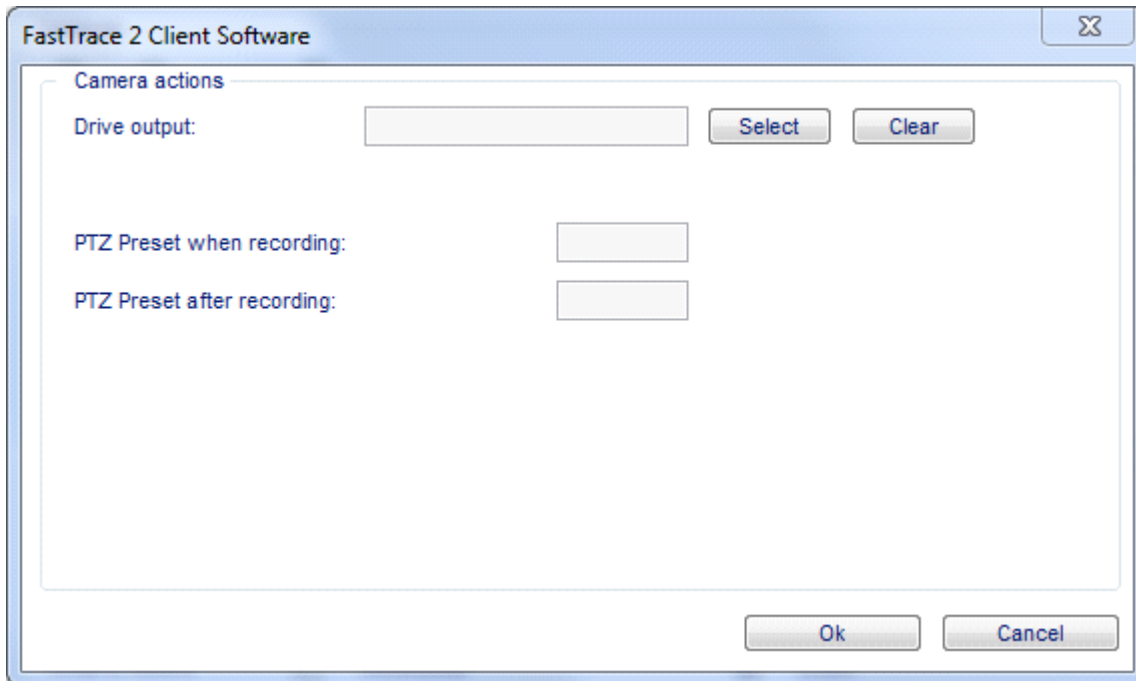
Name

Tick the desired camera. You can tick multiple cameras if necessary.



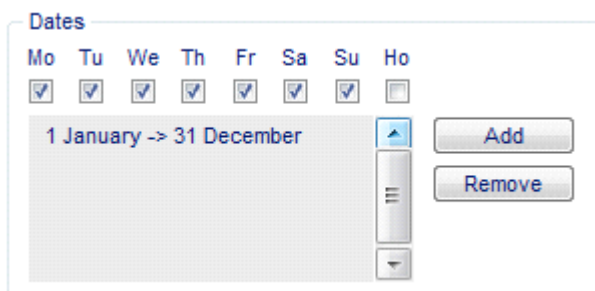
Click the camera number to:

- activate an output when recording;
- go to a preset position (PTZ) when the recording is started;
- go to a preset position (PTZ) when the recording is ended.



Click **OK** to save and apply any modifications you might have made and return to the previous window.

Next, tick the days on which the specific recording should be made. The recording is by default active during the full year. If you want this recording to apply only for limited periods, delete the listed period and add a customized period.



The last checkbox you can tick refers to holidays that have been defined (see 14.3 Adding holidays).

You can add multiple periods in which the recording should be active.

Next, you can specify when exactly the recording has to take place.

Select **Time based** to activate the recording in function of a time schedule. Click and hold the left mouse button and drag the mouse over the **Event** time scale to mark the time zone during which the recording should be active. To correct for errors, right click the time scale to clear the time zone and retry. To avoid any conflicts, it is recommended to clear the **Continuous** time scale.

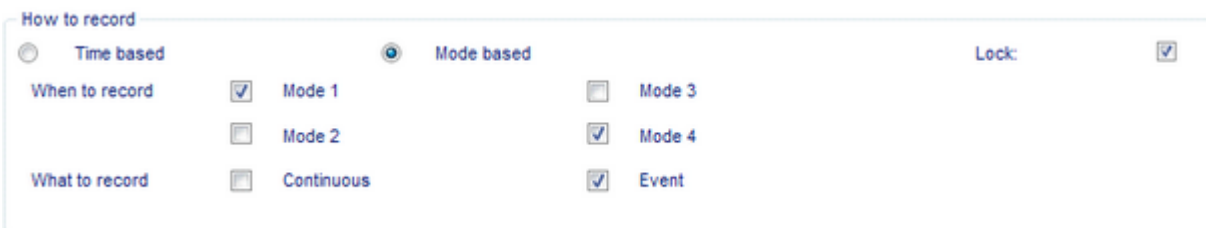
Up to 8 time zones can be defined!



On recording on event it is also possible to “lock” the recording. This means that the recording cannot be erased automatically. Do mind: locked recordings can cause the hard disk to fill up until it is completely full. At this state, an alarm will be generated: “15 - HARD DISK FULL”. When the hard disk is full no new recordings will be stored!

Select **Mode based** to activate the recording in function of the operational mode of the video system. The operational mode (1 to 4) is programmed automatically (with mode schedule) or manually (with switch).

See also [Operational mode](#).



Tick **Event** for *What to record*.

On recording on event it is also possible to “lock” the recording. This means that the recording cannot be erased automatically. Do mind: locked recordings can cause the hard disk to fill up until it is completely full. At this state, an alarm will be generated: “15 - HARD DISK FULL”. When the hard disk is full no new recordings will be stored!

Click **OK** and **Save** to apply the new settings.

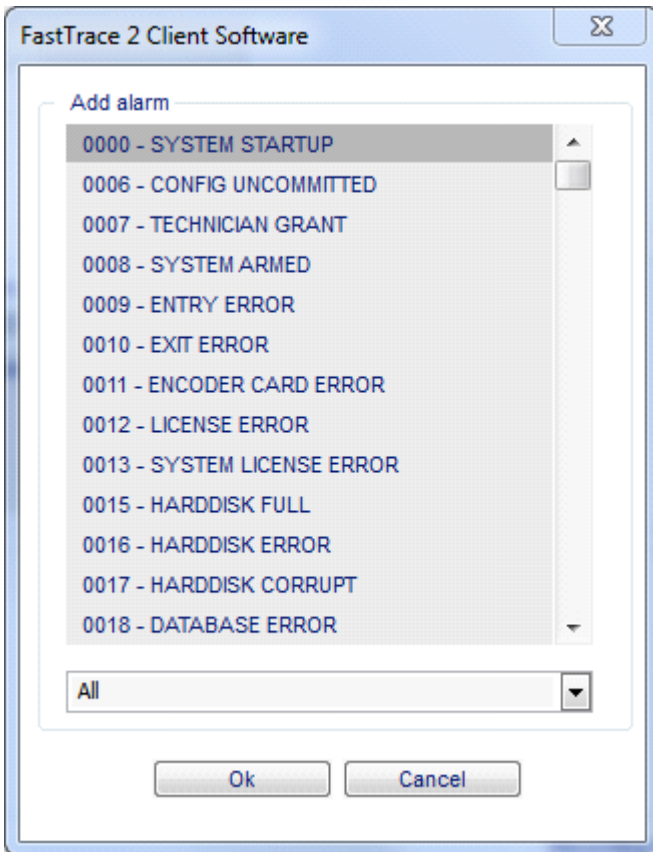
Remark:

You could also tick the **Continuous** mode for *What to record* to create a mixed recording. Such recording will record continuously at the chosen quality and will switch to another quality on the selected event(s).

In the section *Events* click **Add**.



You will get a popup window:



Select the desired alarm trigger and click **OK**.

Several conditions can be added. For each condition you should define whether the condition should also be fulfilled (AND) or whether this condition alone should trigger the alarm (OR).

If you invert the alarm, the recording will start when the end-of-alarm is received.

In the section *Recording length* you can define the duration of the recording. It is possible to set a time (value in seconds) for recording before, during and after the event. For recording during the event you have the choice between *Event duration* or a predefined period.

When the triggers follow each other so quickly that the recordings overlap, the multiple recordings will be melted into 1 recording. When you tick the option *Always start new recording* these overlapping recordings will not be melted into 1 recording. This is, however, not recommended practice.

Recording length

Event duration
 30 Sec

Sec Sec Sec

Always start new recording:

Click **OK** and **Save** to apply the new settings.

Remarks:

If recordings with different quality settings overlap, the highest quality and image rate will be applied.

The video system is limited to 16000 events a day. If more events occur on the same day, the video system will automatically switch to continuous recording for all cameras. This will be seen on the time scale as blue bars. All these recordings will have CIF resolution, 25 ips and quality 75 (level of compression).

With the TRANSMITTER system license the recording on event is fixed to 5 seconds on prerecording, 10 seconds on event recording and no post recording.

12.2.1 Edit recordings

To edit your recordings, you can simply open the *Recordings behaviour* window via **System > Behaviour > Recordings behaviour**. Select one of the recordings in the list and click **Edit** (or you can double click the recording in the list).

Adjust the desired parameters and click **OK** and **Save**.

12.3 Adding holidays

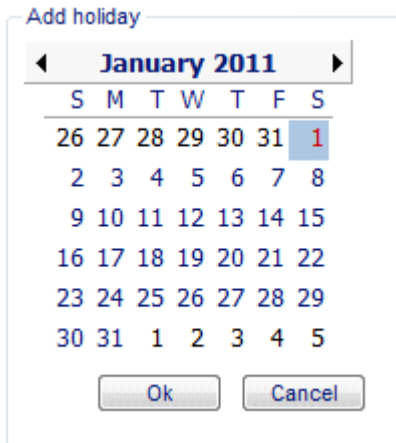
The holiday calendar allows adjusting the behaviour of the video system during holidays. It affects:

- your video recorders;
- the operational mode of the video system (if managed by a mode schedule);
- the arm/disarm schedule.

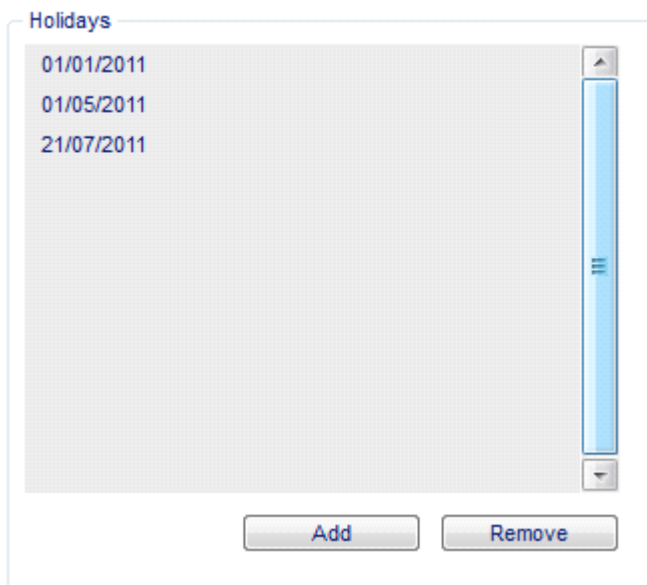
Open the *Calendar* window via **System > General > Calendar**.



Click **Add** to add new holidays.



Select the desired day and click **OK**. The selected day is shown in the list.




You need to add each holiday separately.

If you have mistakenly added a non-holiday, select the date from the list and click **Remove**. There is no need to erase the holidays that are in the past, but it may be interesting to do so to keep a clear view of the list.

Click **Save** to apply the new settings.

12.4 Camera recording information

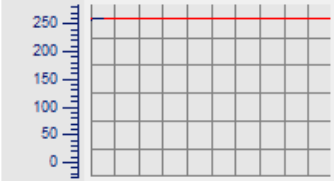
Open **System > Maintenance > Harddisks**.


Harddisks

This section shows you an overview of the recording disks in your system. Also, it shows an estimate of how much you will be able to record on your FastTrace 2.

Information

Current write speed:



Show target speed to record: days

Estimated days, base is current speed:

Estimated days, base is past recordings:

Free space for recording:

Harddisks

#	Total size	Free	Power	Smart	Temp	Fsck	/ Cnt	W/D
00	469452	233971	ACTIVE/IDLE	NORMAL	45	NO	/ 0	WD
01	469452	2818	ACTIVE/IDLE	NORMAL	47	NO	/ 0	

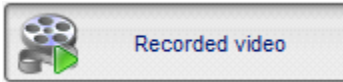
Following information is disclosed in the *Information* section:

- Current write speed
 - The bitrate depends on video contents and may vary continuously. The average value is indicated in red. By entering the required number of days in *Show target speed to record* and clicking **Set** you calculate the corresponding write speed. The red line will then be displaced to the obtained result. Recording behaviour will have to be modified to obtain the estimated bitrate.
- Estimated hard disk storage capacity based on current measured bitrate
 - This value is expressed in number of days.
- Estimated hard disk storage capacity based on existing footage stored on the hard disk
 - This value is expressed in number of days.
- Free space for recording
 - This value is expressed in MB.

In the *Harddisks* section you get a list of all hard disks that have been installed in the video system. For each hard disk you can see the free disk capacity and the total disk capacity.

13 Searching recordings and watching events

Open Recorded Video.



Recorded video

00:00:00.000

2CF

Disable active live streams

By Time By Event

Make your download or burn selection using the sliders on the timeline.

Selected interval from 08:04:39 to 08:05:23

Backup FastTrace 2 Download Backup Local

Timeline
Advanced Search
Postmotion
Manage local recordings

Timeline

Apr 2011

Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30																		

00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00

1																							
4																							
7																							
10																							
13																							
16																							

Show

Overlap

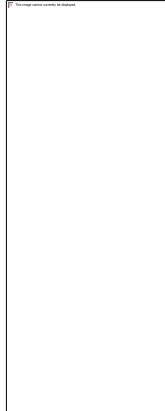
Overflow

13.1 Searching recordings on the Timeline

Click **Timeline**.



13.1.1 Types of video recordings



Continuous recordings

Recordings on motion detection

Recordings on digital/virtual input

All other recordings

13.1.2 Searching on the timeline

Choose the desired period (month and year) by using the arrow buttons.



Select the desired day. Only days that light up in dark blue contain recordings. The darkest day is the selected day.



By default the time indication is shown with a 30 minutes interval. You can, however, zoom in on the time by dragging the mouse pointer (with the left mouse button pressed) on the time indication line. A blue marker appears to indicate the selected time.



When you stop pressing the left mouse button, the system will zoom in on the desired period of time.

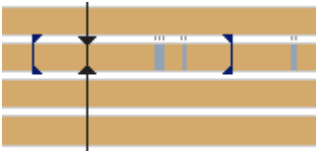


Select the timeline of the desired camera by clicking on that timeline with the left mouse button. A black arrow appears.



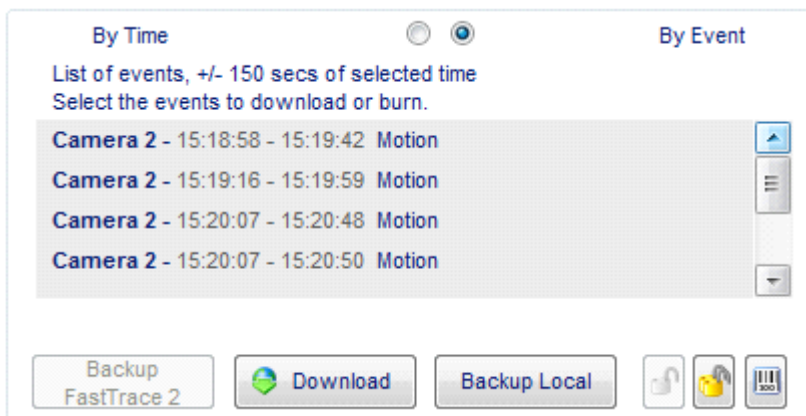
At the top left a still image of the selected camera is shown. Reposition the black arrow to choose another time. The image at the top left is adapted to the new time indication.

You can also reposition the black delimiters on the selected timeline. In doing this you set the start and end time of the video footage. It is the footage within this time frame that can be watched or downloaded.



13.1.3 Searching recordings of events

At the top right select the option *On event*. You will be shown a list of available recordings. The list contains only event recordings, no continuous recordings.



Mind:

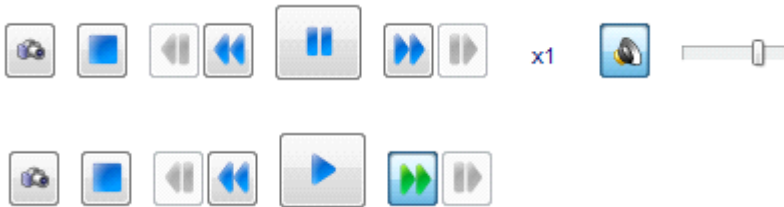
You only get to see the recordings of events that happened only 150 seconds before or after the selected time indication on the timeline.

13.1.4 Playback the selected video footage

When you have selected a video image, either on the timeline or on event, you can click the **Play** button to watch the footage.



While playing the footage, you can fast forward or rewind, using the control buttons underneath the video playback.



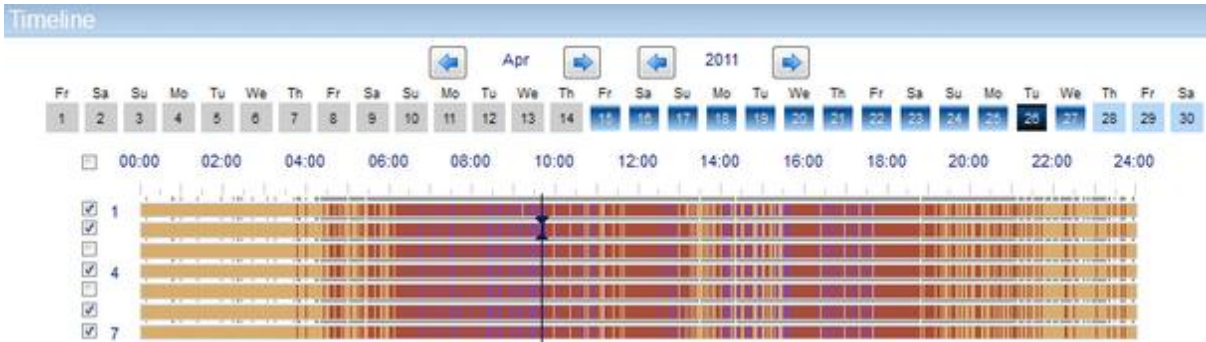
To halt the playback, click the **Stop** button. The image will freeze at the time reached in the playback.

When the footage has not been downloaded, you cannot use audio. When the footage has been downloaded you can adjust the volume level with the slider or click the loudspeaker button to mute all audio.

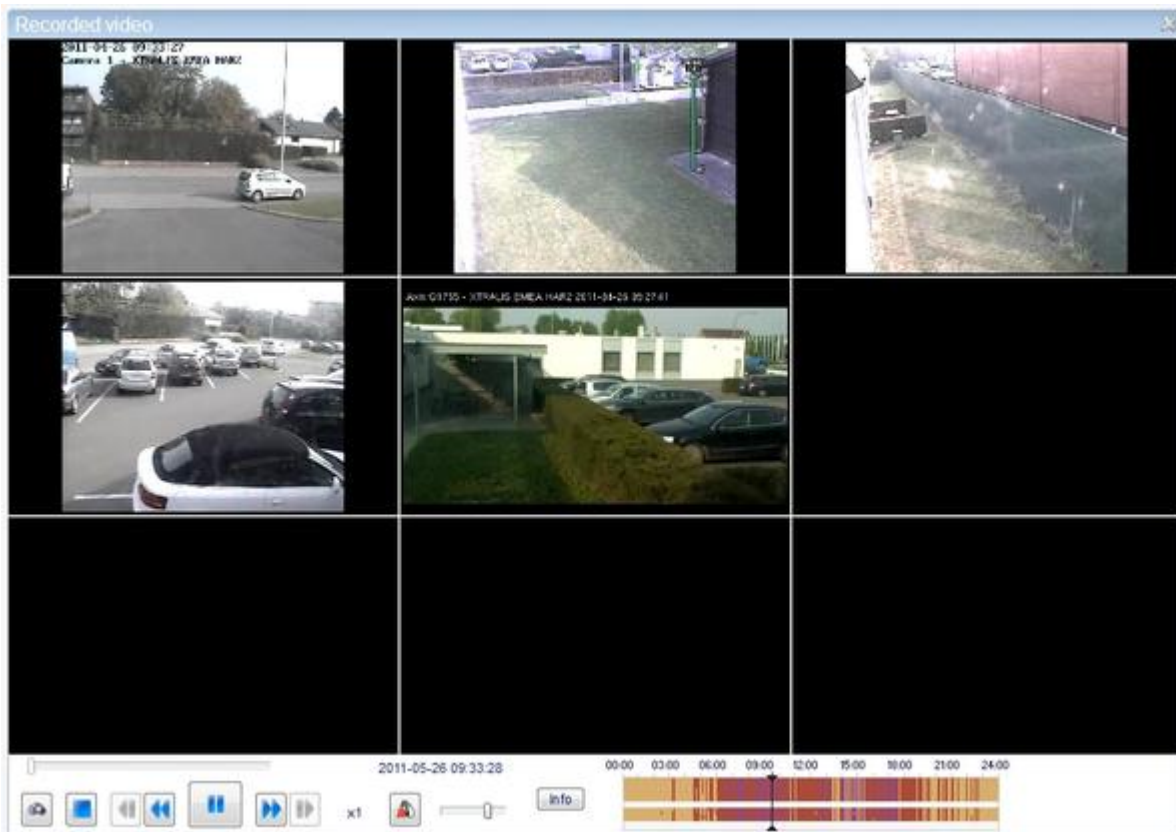
Double click the video player to get a full screen image. Double click again to quit the full screen player.

13.1.5 Synchronized playback

To watch video footage of multiple cameras (with images of identical time settings), tick the camera timelines you would like to include in the synchronised playback. Choose your time frame and click **Play**.



You will automatically get a full screen image with different camera footage.



When you double click one of the images, this image will be shown in full screen. Double click it again to return to multiple playback.

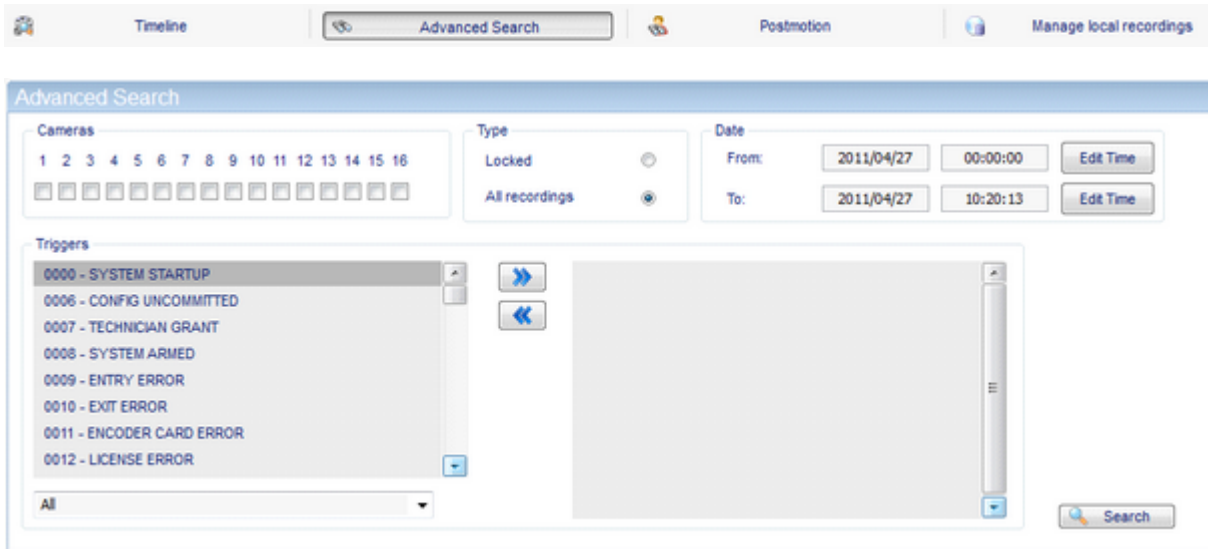


You can also click the **Info** button to see the detailed information of each camera under the camera image.



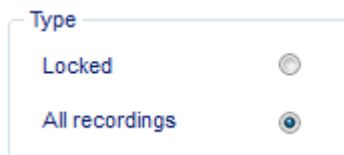
13.2 Searching recordings via Advanced Search

Click **Advanced Search**.

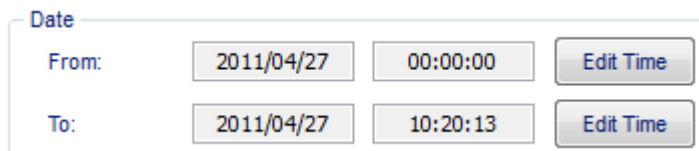


Tick the desired camera. You can tick multiple cameras.

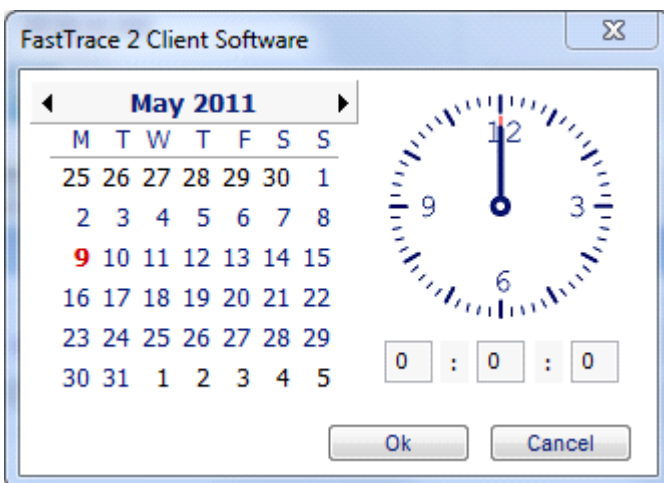
In the *Type* section select whether you want to search all recordings or only locked recordings.



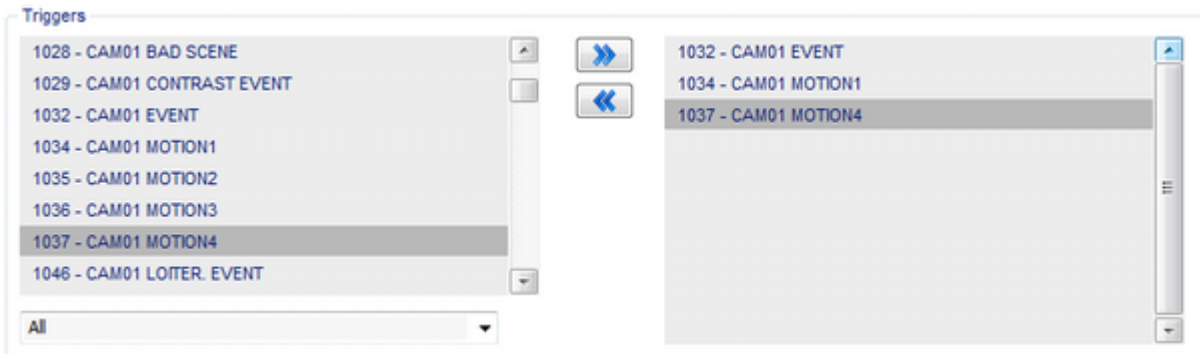
Select the desired time frame for the recordings.



You can manually type the time indication or use the **Edit Time** button to open this window:



Select the event in the *Triggers* section and click the blue double arrows button to move the selected event to the second field.

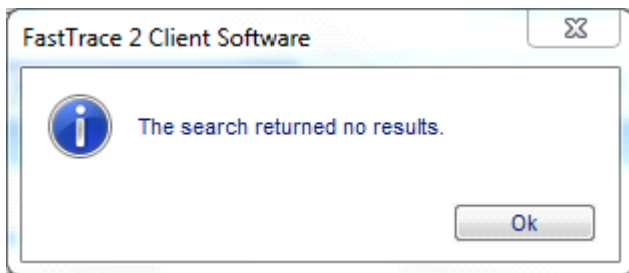


At the bottom left you can filter on the kind of trigger you are looking for.

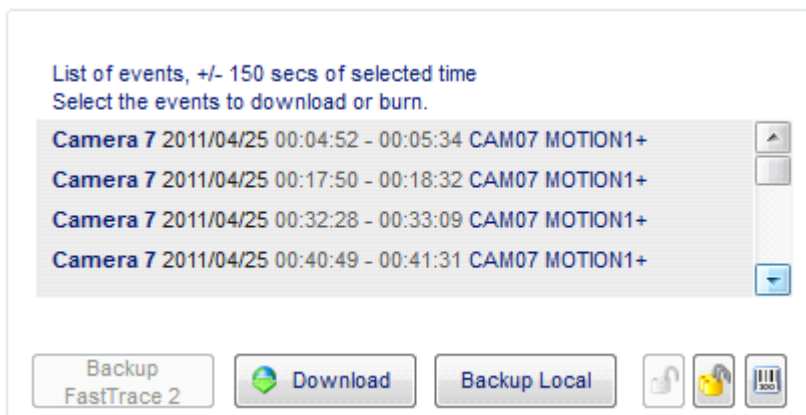
A maximum of 4 triggers can be moved to search on.

Click **Search** to start searching for recordings.

When you get this popup message, you need to adjust your settings (if you are sure that there should be results).



If there are any results matching your search, they will be shown at the top right.



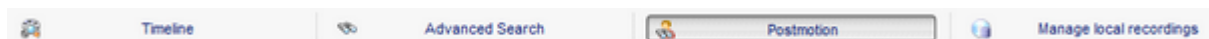
Select the desired recording. You can now watch and/or download this footage. (see [Download and store selected video recordings](#))

13.3 Searching recordings via Postmotion

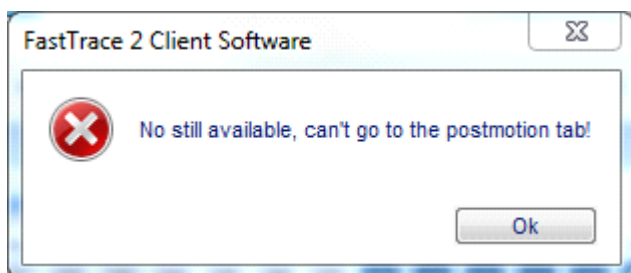
The video recorder does not only store the video footage on the hard disk, it also creates a metadata file describing the contents of the footage. This information allows you to quickly find all sequences in which an object was moving inside a specific area of the camera lens.

Select a desired camera image on the *Timeline* tab. (see Searching on the timeline)

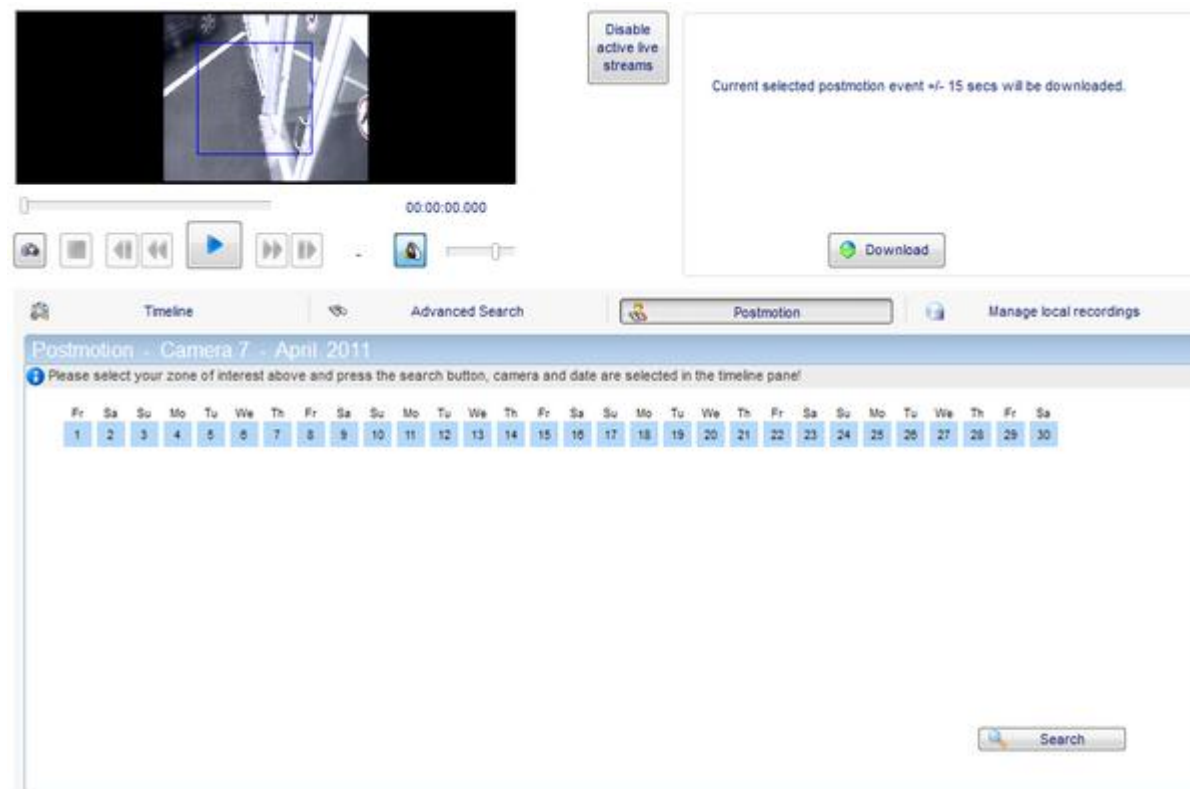
Then click **Postmotion**.



Normally a still image is automatically available. If no still image has been defined on the timeline tab (e.g. because you didn't leave the time to load the memory), you will get this error message:

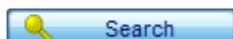


If you did choose an image still (visible in the small screen at the top left), you will get this window:



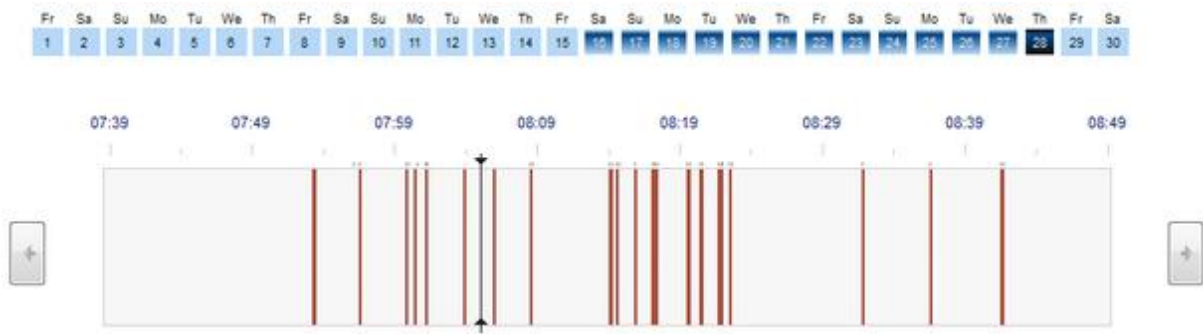
In the still image at the top left a blue square appears. This blue square indicates your zone of interest. This will be the zone that is being analysed. Adjust the size and position of the zone if desired and click **Search**.

Searching.



When the search has been completed, you will get a time scale with the results.

Select the day of interest (only dates that light up dark blue contain recordings). Drag the mouse pointer on the time indication line to zoom in on a specific period.



Click the right mouse button on the time indication line to zoom out to the original result display.

Click a specific recording and the **Play** button to watch that recording. Use the arrow buttons to go to the previous or next recording.



Click **Download** if you want to store the footage in your work folder.

13.4 Download and store selected video recordings

Select the desired video footage and click **Download**.



You can see the downloading status:

Downloading
74%

The downloaded video footage are stored on your local hard disk in the work folder. The file name contains the camera number, camera name and the time frame of the recording. The file is stored with the extension “.hbox”.

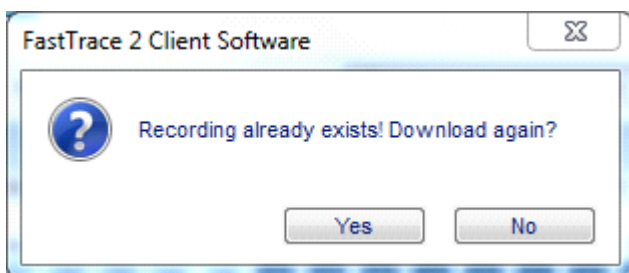
Name	Type	Size
06 - Camera 7 - 11-04-28 08-15-29 -- 11-04-28 08-16-00_0-07	HBOX File	1.241 KB
06 - Camera 7 - 11-04-28 08-15-29 -- 11-04-28 08-16-00-07	HBOX File	1.241 KB
12 - AXIS Q6032-E - 11-04-26 14-45-10 -- 11-04-26 14-45-52-13	HBOX File	309 KB

For slow network connections it is recommended to – especially with synchronized playback – disable all live streams in order to increase the download speed. You can disable all active live streams by clicking the button.



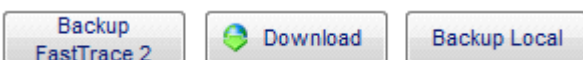
Mind: when downloading a recording via Postmotion, only part of the recording will be stored: the selected time plus about 10 extra seconds.

If you have already downloaded the video footage and click the ‘Download’ button again, you will be asked whether you want to download the recording once more:

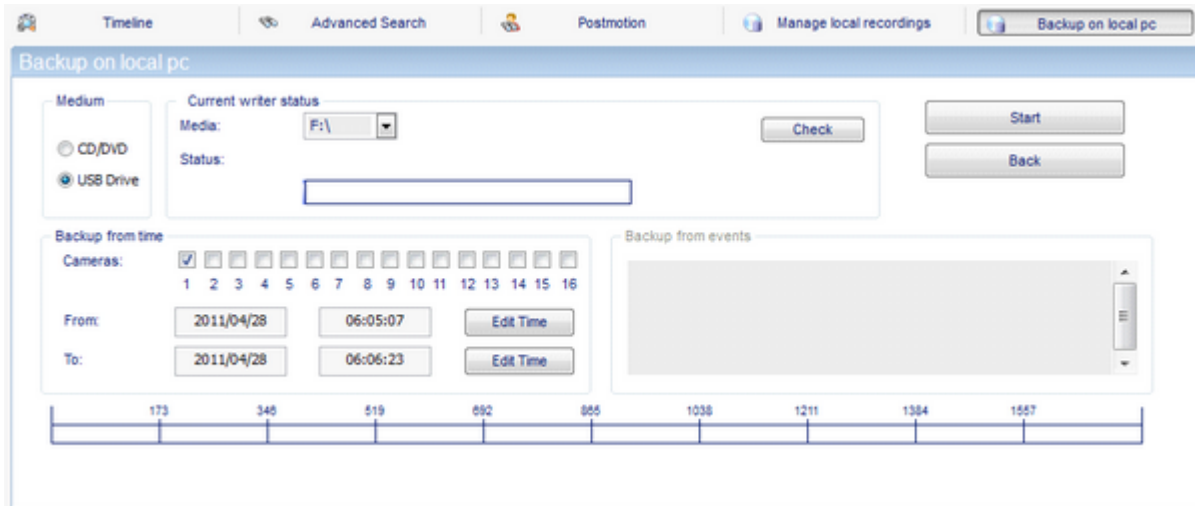


You can also store video footage als image files on a USB drive of CD/DVD connected to the FastTrace 2 video system or to your local PC.

Use the **Backup FastTrace 2** button to store the video on a USB or CD/DVD drive on the FastTrace 2 video system. Use the **Backup Local** button to store the video on a USB or CD/DVD drive connected to your local PC.




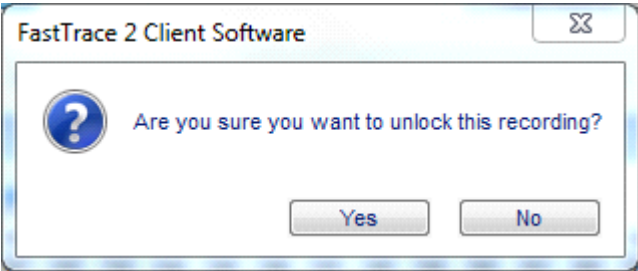

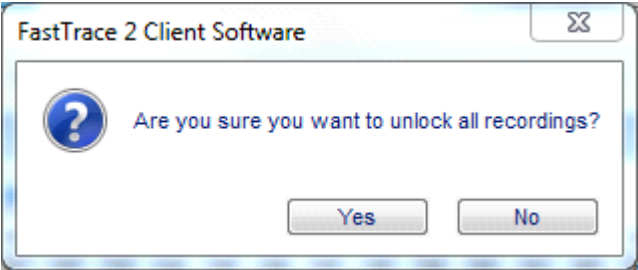
You will get this window:



Select the desired storage medium (CD/DVD or USB drive) and tick the desired cameras. Also define the time frame of the recordings you want to store. If storing event recordings, you can select what events you would like to store.

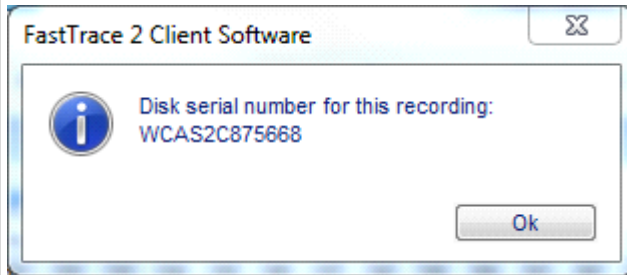
Click **Start** to start burning the video footage to the selected drive. Click **Back** to return to the previous window.

When you have locked the recordings (see *Recording on event*), you need to manually unlock them so that they can be deleted:

	<p>Click this button to unlock the selected recording.</p>  <p>You need to confirm that you want to unlock the recording. Click Yes to unlock, click No to return to the previous window.</p>
	<p>Click this button to unlock all recordings in the list.</p>  <p>You need to confirm that you want to unlock the recording. Click Yes to unlock, click No to return to the previous window.</p>



If you have multiple hard disks in your video system, you can use this button to check on what hard disk the footage has been stored. Select the desired recording and click this button. You will get a popup window with the serial number of the hard disk.



Click **OK** to return to the previous window.

13.5 Manage local recordings

All downloaded video recordings are stored in the work folder of the FastTrace 2 Client on your local hard disk (or network folder). Recordings are arranged in subfolders, providing a separate subfolder for each video system. Video systems are recognized by their identification number (a value from 1 through 9999).

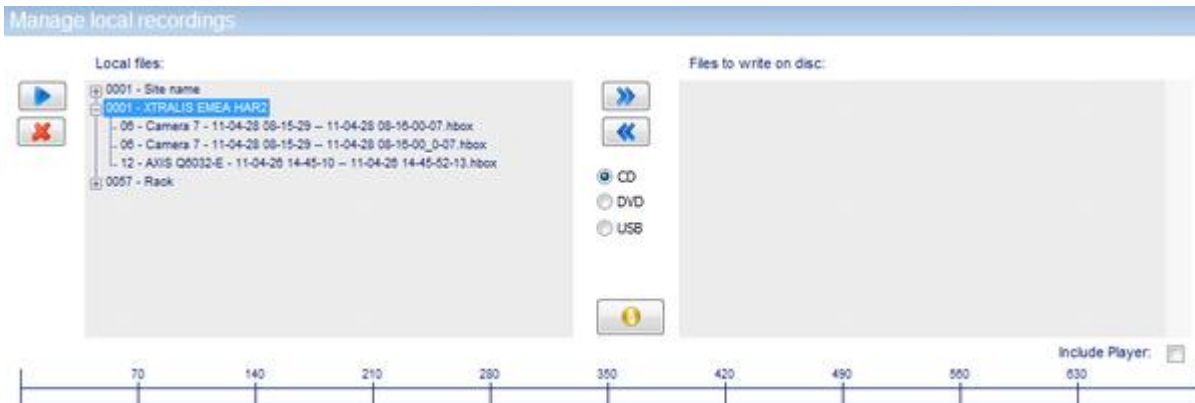
This identification number is defined via **System > Behaviour > Alarm transmission > General > FastTrace 2 Unit ID**.

General			
CMS ID	<input type="text" value="3141593"/>	<input type="button" value="Default"/>	Connection Timeout (s) <input type="text" value="3"/>
FastTrace 2 Unit ID	<input type="text" value="1"/>		Holdtime (0=no repeat) (s) <input type="text" value="600"/>
Site name	<input type="text" value="XTRALIS EMEA HAR2"/>		

To watch locally stored video recordings, click **Manage local recordings**.



You will get this window:



Unfold the desired video system folder and select a recording. You now have several options:

	Playback the selected recording.
	Delete the selected recording.
	Add the selected recording to the "burning" list. This is the list of files that you want to store (burn) on CD, DVD or USB.
	Delete the selected recording from the "burning" list. This is the list of files that you want to store (burn) on CD, DVD or USB.
<input checked="" type="radio"/> CD <input type="radio"/> DVD <input type="radio"/> USB	Select the desired drive on which you want to burn the video recordings.
	Start burning the video recordings from the burning list to the selected drive.

If you tick **Include Player** (at the bottom right), you will also burn all software required to watch the video recordings, to the CD/DVD/USB. That way you can play the recordings on any Windows compatible computer.

All drives used for burning video recordings are formatted before burning!

Remark:

If you want to play the video recording in full screen, double click the image (with the left mouse button). Double click the full screen image to return to normal view.



13.6 Automatically erasing old(er) video recordings

Local legal requirements (variable and depending on state and region) may necessitate the video system to delete all recordings after some predefined period. The video recordings may only be stored on the hard disk for a limited period of time. When that period of time has passed, the recordings should be erased from the hard disk.

You can activate this function via **System > Behaviour > Recordings behaviour**.

General

Maximum days recording: (0 = unlimited number of days)

Click **Save** to apply the new settings.

Mind:

Recordings on event that have been locked, are not erased automatically after the set period of time. These recordings need to be unlocked and erased manually.
(see also [Download and store selected video recordings](#))

13.7 Log

Local legal requirements (variable and depending on state and region) may stipulate that a video system should keep a logbook (e.g. the Law Sarkozy in France). This logbook should register all user interventions and events.

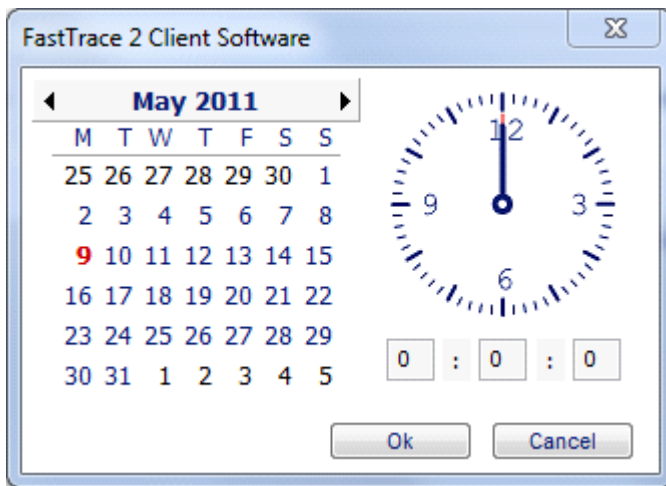
Open the *Log* window via **System > Maintenance > Log**.

The screenshot shows the 'Log' window interface. At the top, there is a header with the title 'Log' and the subtitle 'Extract the alarm and system logs here.' Below this, there are three main sections: 'Time', 'Type', and 'Filter'. The 'Time' section has 'From' and 'To' date and time pickers, both set to 2011/04/28, with 'Edit Time' buttons. The 'Type' section has radio buttons for 'Log' (selected), 'Event', and 'Command'. The 'Filter' section has checkboxes for 'Live video view', 'Live multicast view', 'Still image view', and 'Recorded video view', all of which are checked. A 'Search' button is located to the right of the filter section. The main area is a table with columns for 'Time', 'Type', 'User', and 'Cam | Data'. A 'Save Log' button is at the bottom right.

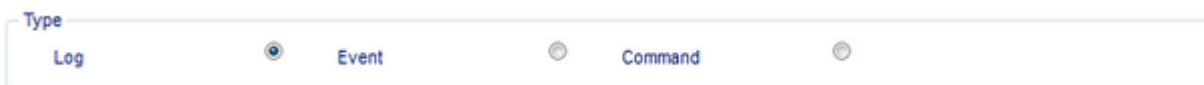
Set the desired time frame.

The screenshot shows the 'Time' section of the Log window. It has 'From' and 'To' date and time pickers, both set to 2011/4/28, with 'Edit Time' buttons.

You can manually type the dates and time indications or click the **Edit Time** button to get this popup window:

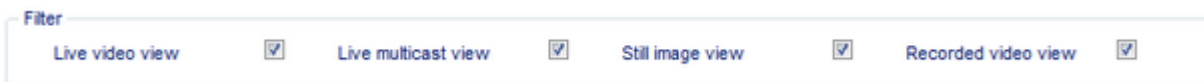


Select the desired type.



You can only select one option: log, event or command.

If you choose **log** as type, you can also tick the views you would like to search in the *Filter* section.



Live video view	This option shows the users that have watched live video images.
Live multicast view	This option shows the users that have watched the multicast stream.
Still image view	This option shows the users that have taken snapshot pictures.
Recorded video view	This option shows the users that have downloaded video recordings.

If you choose **event** as type, all events that have been generated on the FastTrace 2 video system (e.g. motion detection, inputs, outputs, ...) will be displayed.

If you choose **command** as type, all commands that have been executed by the users (e.g. connections, change of configuration, ...) will be displayed.

Mind:

The log is limited to 100,000 events per type (log, event or command) and has a time period limit of 6 months.

13.7.1 Example of a Log record

Time	Type	User	Cam	Data
2012/09/10 11:27:25	Live video view	00	01	
2012/09/10 11:24:29	Live video view	00	01	
2012/09/06 12:56:26	Live video view	00	01	
2012/09/06 12:56:26	Live video view	00	01	
2012/09/06 12:53:48	Live video view	00	01	
2012/09/06 12:53:48	Live video view	00	01	
2012/09/06 12:52:00	Live video view	00	01	

↑	↑	↑	↑	↑
Time of intervention	Type of intervention	User of intervention	Camera of intervention	Additional information (e.g. moment of the still image)

13.7.2 Example of an Event record

Time	Input/Output Behaviour	E	T	ATX	Alarm Time
2012/09/13 15:12:18	I0214 - [SYST] - RECORDING MATCH	+	S		
2012/09/13 15:11:48	I1034 - [REAL] - CAM01 MOTION1	+	Q		
2012/09/13 15:11:46	I0214 - [SYST] - RECORDING MATCH	+	S		
2012/09/13 15:11:15	I1034 - [REAL] - CAM01 MOTION1	+	Q		
2012/09/13 15:10:30	I0214 - [SYST] - RECORDING MATCH	+	S		
2012/09/13 15:10:30	I1034 - [REAL] - CAM01 MOTION1	+	Q		

↑	↑	↑	↑	↑
Time of intervention	Identification of intervention	Start or end of intervention	Type of event: - L=Live - Q=Quad - D=Duress - S=System	Additional information

13.7.3 Example of a Command record

Time	Id	Group	Command	Data
2011/04/28 09:39:30	C01	transfer	download	user data
2011/04/28 09:39:30	C01	login	user	(00) => authorized
2011/04/28 09:39:30	C01	connection	open	(10.0.0.236)
2011/04/28 09:35:32	C11	system	reboot	
2011/04/28 09:33:59	C11	transfer	download	user data
2011/04/28 09:33:59	C11	login	user	(00) => authorized
2011/04/28 09:33:59	C11	connection	open	(10.0.0.236)
2011/04/28 09:33:55	C10	connection	closed	(10.0.0.236)

↑	↑	↑	↑
Time of intervention	Event identification. * - C = client session - T = telnet session	Executed command	Additional information (e.g. IP adres)

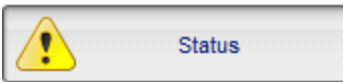
* All commands within the same session will have the same ID.

14 Status

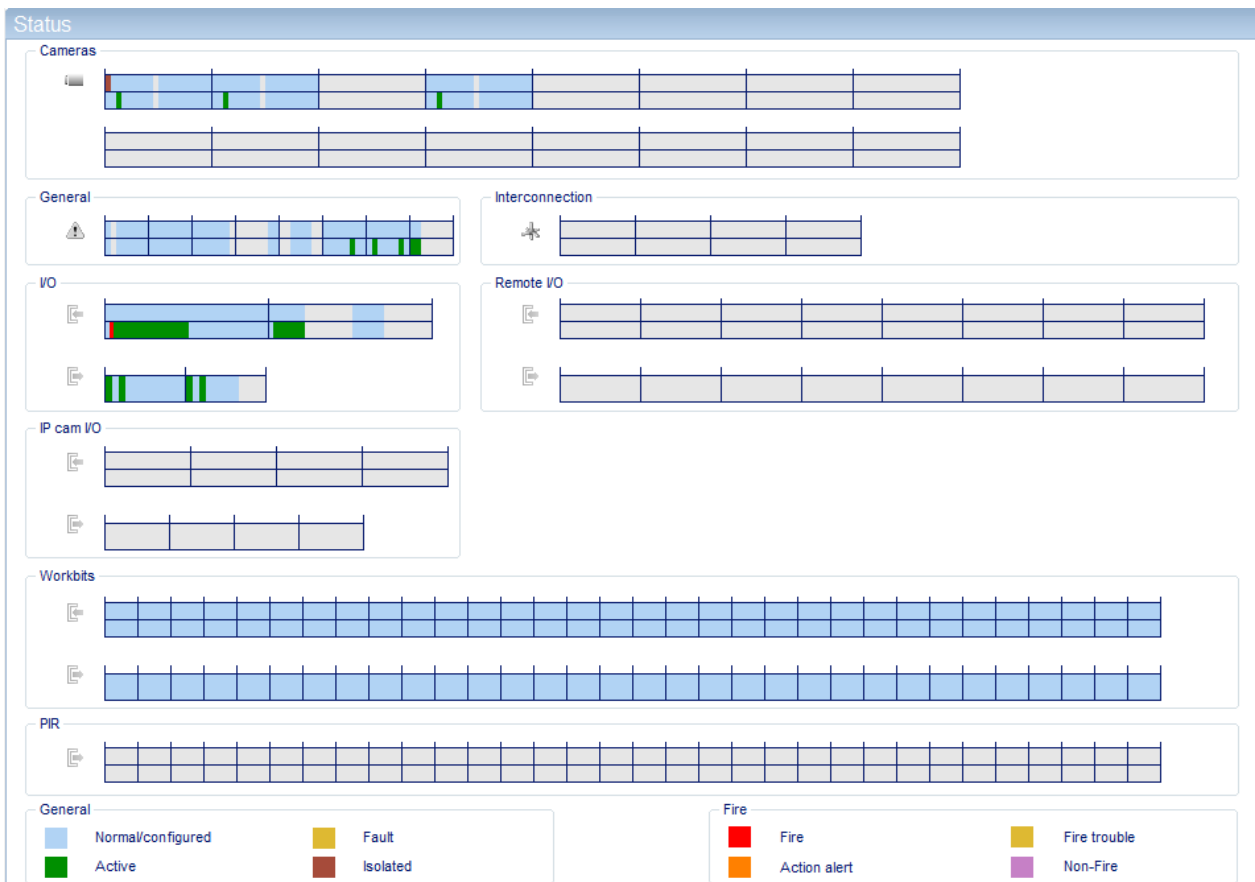
Click 'Status' to see the status of all cameras, the video system and all inputs and outputs.



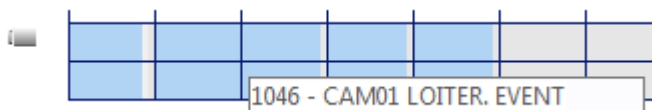
Normally the Status button contains a green ball. If a warning sign is visualized there might be an issue with the FastTrace 2 Server.



You get an overview with different status bars.

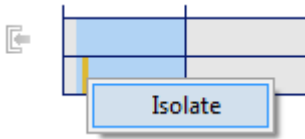


Place the mouse pointer on an indicator (status bar) to get a detailed description.



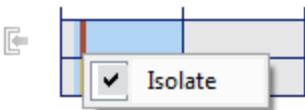
14.1 Isolate an alarm input

To isolate an alarm input, right click the desired input and click 'Isolate'.



Isolating an alarm input means that alarms are no longer received. The isolated input is marked with a brown colour (see also legend).

To activate the isolated input again, right click the desired input and click 'Isolate'.

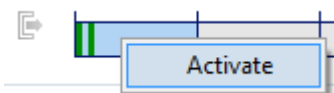


When an input is isolated, input I0511 will be activated. The message "GENERAL ISOLATION" will be reminded each 24 hours. It will also be visualised in the Status button by a specific orange pin.



14.2 Activate an output manually

To manually activate an output, right click the desired output and click 'Activate'.



Mind: you cannot activate an output that is already active (= green colour). It is also not possible to manually deactivate an active output.

14.3 General status of the video system

You can receive one of these messages when checking the status of your cameras, video system and inputs and outputs.


Cam x past analytics	Error during post motion analysis - contact your dealer.
Cam x sab analytics	Error in camera tampering analysis - contact your dealer.
Cam x recording	Camera images are currently being recorded to hard disk.
Cam x synch fault	No video signal on camera - check camera power supply or coax cable.
Cam x Contrast fault	Camera lens covered or lighting suddenly switched off.
Cam x Sabotage fault	Camera displaced or lens fault or zoom/focus settings changed.
Cam x event	User programmable camera event - has to be activated by a logical function.
Config uncommitted	Current configuration is not yet saved. Restarting the system may cause loss of latest modifications.
Encoder card error	Video capturing card or HIPI card out of order. Could indicate a hardware fault. All cameras on associated card will not work.
License error	Wrong license has been loaded or no license at all.
HD error	Hard disk fault. Requires hard disk replacement.
HD full	Hard disk full. Too many locked recordings are stored on hard disk.
HD corrupt	Indicates corrupt data - contact your dealer.
Db error	Indicates corrupt or unreadable data files - contact your dealer.
Entry error	Not disarmed in time on entry.
Exit error	Area not abandoned in time on exit (after arming the system).
Modem init failed	Modem not ready/not connected.
Primary line fault	Primary connection not ready.
Primary lifecheck	Life check sent over primary connection.
Backup line fault	Backup connection not ready.
Backup lifecheck	Life check sent over backup connection.
AL tx queue overflow	alarm buffer overflow - too many alarms or unable to transmit alarms to CMS.
Recorder overflow	too many recordings on the same day - system switches to continuous recording.
Event queue overflow	too many events on the same moment.
Sensor activity	critical inputs are active - system should not be armed.
Recording match	used in the VSKWin application, to associate the recorded footage to the alarm on the interconnected S3100 system that triggered the recorder.
General power	Indicator - power supply OK.
General fault	Indicator - fault condition.
General recording	Indicator - System is recording.
General isolation	Indicator - One or more inputs have been isolated by user.
General mode 1 - 4	Indicator - System is currently in mode 1 – 4.
SMART HDD error SMART HDD alert SMART HDD temperature	Analytical information received from the hard disk (SMART).

15 Firmware, license, configuration

It is possible to upload and/or download several file types to and from the FastTrace 2 video system. The file type can be recognized from the file extension:

- .bin = software (linux + application)
- .lic = license
- .usr = user data
- .prop = configuration
- .def = camera definitions

Open **System > Maintenance > Transfer**.

 **Transfer**
Send and/or receive configurations, license files, user files and update files here.

Send to FastTrace 2

Receive from FastTrace 2

License

User Data

Configuration

Camera Definition

15.1 Uploading files to the video system

Different types of files can be uploaded to the video system:

- .bin = software (linux + application)
- .lic = license
- .usr = user data
- .prop = configuration
- .def = camera definitions

Open **System > Maintenance > Transfer**.

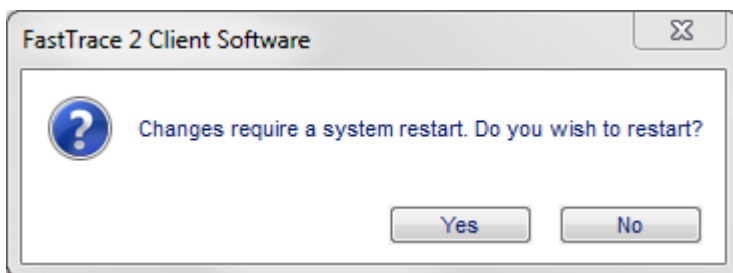
The screenshot shows a web interface titled "Send to FastTrace 2". It contains a text input field, a "Search" button, and a "Send" button.

In the "Send to FastTrace 2" section click 'Search'. Select the desired file from your local or network folders and click 'Open'.

The file will be shown in the "Transfer" window. Click 'Send' to upload the file.

The screenshot shows the same "Send to FastTrace 2" interface, but now the text input field contains the file path "C:\Temp\V3100_0001.usr". The "Search" and "Send" buttons are still present.

You will get a popup window saying you need to restart the video system.



Click 'Yes' to restart the video system and apply the new settings (e.g. license).

Mind:

You can download a license from a FastTrace 2 server on firmware version 2.5 (or lower version) and upload this license into a FastTrace 2 server on firmware version 2.6. Although the license formats have changed in the new firmware version 2.6, the "older" license will be automatically converted.

However, it is not possible to load a license file from a FastTrace 2 server on firmware version 2.6 into a FastTrace 2 server on firmware 2.5 (or lower).

Important:

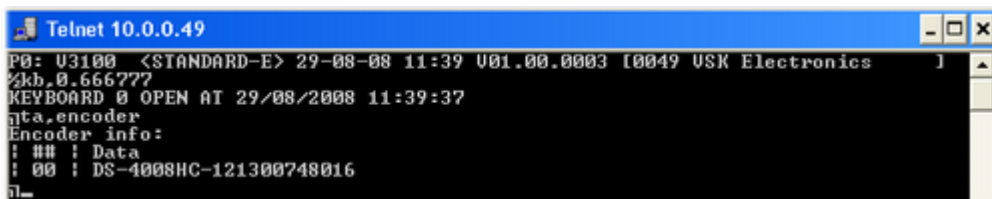
A full upgrade of the firmware and software may cause your data to get lost (e.g. license, user data, configuration, ...). Make sure you have downloaded these files from your video system before you start upgrading.

(see [Downloading files from the video system](#))

If, by accident, you do lose your configuration, you will need to redo all settings in the video system. If you also lose your license, you will need to contact your supplier (Xtralis Support) to retrieve a new license. You can also download your license from the website <http://www.xtralissecurity.com> (via FastTrace 2 Licensing).

If a new license needs to be retrieved from Xtralis Support, you will need to provide the serial numbers of your video cards. You can check this information using a Telnet connection on the video system. Type the command:

```
kb,0.666777 (log on as administrator) [use the correct password for the administrator]
ta, encoder
```



```
Telnet 10.0.0.49
P0: U3100 <STANDARD-E> 29-08-08 11:39 U01.00.0003 [0049 USK Electronics ]
%kb,0.666777
KEYBOARD 0 OPEN AT 29/08/2008 11:39:37
ta,encoder
Encoder info:
! ## : Data
! 00 : DS-4008HC-121300748016
```

Attention:

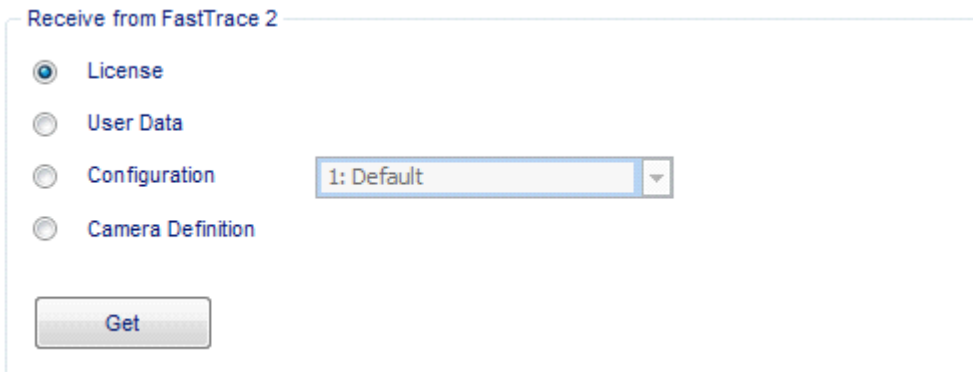
From firmware version 2.6 onwards a new application license portal has been activated. Please consult the technical manual for more information on this.

15.2 Downloading files from the video system

15.2.1 Downloading license

Open **System > Maintenance > Transfer**.

In the section “Receive from FastTrace 2” select “License”.



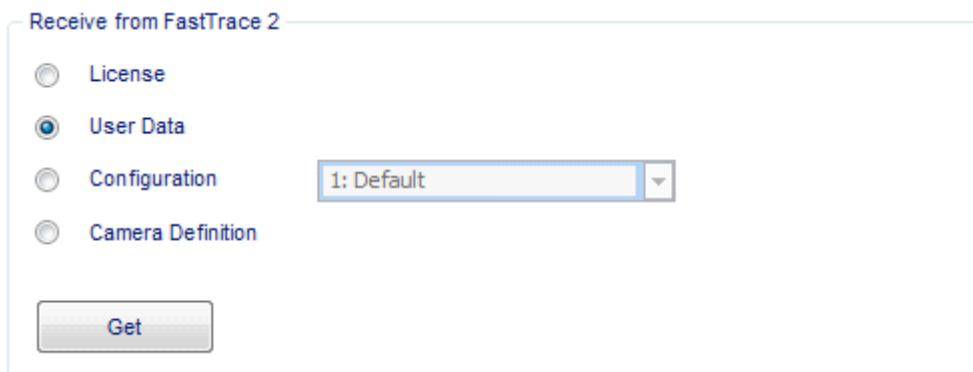
The screenshot shows a dialog box titled "Receive from FastTrace 2". It contains four radio button options: "License" (selected), "User Data", "Configuration", and "Camera Definition". To the right of the "Configuration" option is a dropdown menu showing "1: Default". At the bottom of the dialog is a "Get" button.

Click 'Get'. You can define where the file should be stored.

15.2.2 Downloading user data

Open **System > Maintenance > Transfer**.

In the section “Receive from FastTrace 2” select “User Data”.



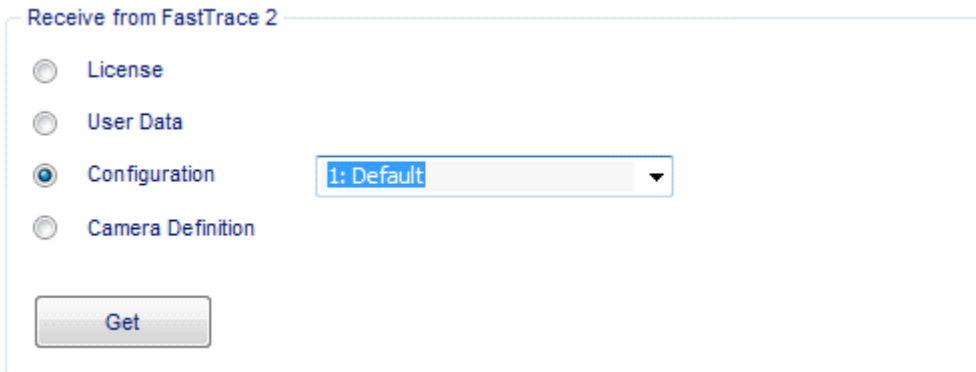
The screenshot shows a dialog box titled "Receive from FastTrace 2". It contains four radio button options: "License", "User Data" (selected), "Configuration", and "Camera Definition". To the right of the "Configuration" option is a dropdown menu showing "1: Default". At the bottom of the dialog is a "Get" button.

Click 'Get'. You can define where the file should be stored.

15.2.3 Downloading a configuration

Open **System > Maintenance > Transfer**.

In the section "Receive from FastTrace 2" select "Configuration". You also need to define what configuration you want to download.



The screenshot shows a web interface titled "Receive from FastTrace 2". It contains four radio button options: "License", "User Data", "Configuration", and "Camera Definition". The "Configuration" option is selected, indicated by a blue dot. To the right of the "Configuration" option is a dropdown menu with "1: Default" selected. Below the options is a "Get" button.

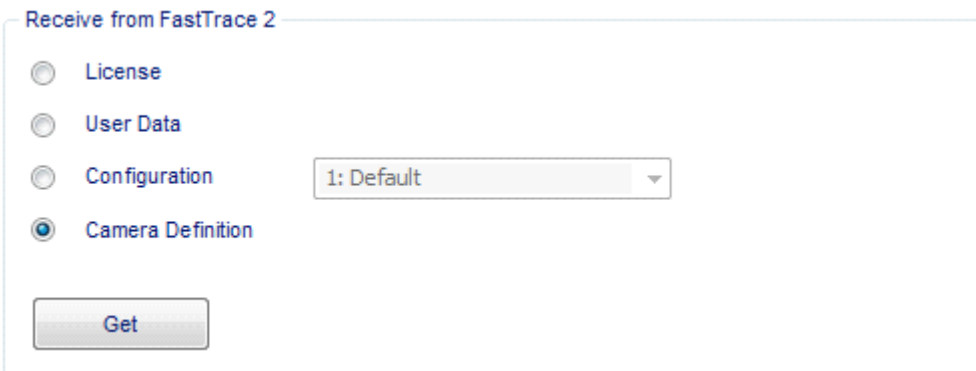
Click 'Get'. You can define where the file should be stored.

Repeat the procedure mentioned above for all configurations you would like to download.

15.2.4 Downloading camera definitions

Open **System > Maintenance > Transfer**.

In the section "Receive from FastTrace 2" select "Camera Definition".



The screenshot shows the same web interface as in the previous section, but with the "Camera Definition" radio button selected. The "Configuration" option is now unselected. The dropdown menu still shows "1: Default". The "Get" button is still present at the bottom.

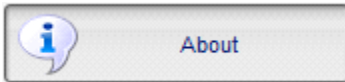
Click 'Get'. You can define where the file should be stored.

15.3 Checking the software version

At regular times new firmware and software updates are released. These new releases can be downloaded from the website <http://www.xtralissecurity.com>.

To check what version of the FastTrace 2 (server and client) you can use the client software.

Click 'About'.



You will get the information about the FastTrace 2 Client version and the FastTrace 2 Server version:



It is always recommended to have both Client and Server on the same version, but in principle different versions can be used.

16.2 Error codes

16.2.1 General error codes

Code	ERROR	Description
0	NO_ERROR	
-10	ERROR_INVALID_VIDEO_CHANNEL	Invalid video channel.
-11	ERROR_INVALID_VIDEO_RESOLUTION	Invalid video resolution.
-12	ERROR_INVALID_VIDEO_QUALITY	Invalid video quality.
-13	ERROR_INVALID_VIDEO_BITRATE	Invalid bitrate.
-14	ERROR_INVALID_VIDEO_FRAMERATE	Invalid framerate.
-16	ERROR_INVALID_IPADDRESS	Invalid IP address.
-17	ERROR_INVALID_PORTNUMBER	Invalid port number.
-18	ERROR_INVALID_USER	Invalid user ID.
-19	ERROR_INVALID_USER_PASSWORD	Invalid user password.
-20	ERROR_INVALID_INSTANCE	Invalid instance.
-21	ERROR_INVALID_DECODER_NUMBER	Invalid decoder number.
-22	ERROR_INVALID_VOLUME	Invalid audio volume.
-23	ERROR_INVALID_OPERATION_MODE	Invalid operation mode.
-24	ERROR_NO_CONTROL_CONNECTION	No control protocol connection established yet.
-25	ERROR_INVALID_BITRANGE	Invalid bitrange.
-26	ERROR_BUFFER_TOO_SMALL	Supplied buffer too small.
-27	ERROR_IN_USE	Already in use.
-28	ERROR_NOT_IN_USE	Not in use.
-29	ERROR_SEARCH_INVALID_CAMMASK	Invalid camera mask.
-30	ERROR_SEARCH_INVALID_TIME	Invalid search time.
-31	ERROR_SEARCH_INVALID_CONDITIONS	Invalid search criteria.
-32	ERROR_SEARCH_FAILED	The search function failed.
-33	ERROR_INVALID_PAGE	An invalid system page was specified.
-34	ERROR_INVALID_PARAM	An invalid parameter was supplied.
-35	ERROR_GETTING_USERRIGHTS	Error getting the users rights.
-36	ERROR_INSUFFICIENT_USERRIGHTS	The user hasn't got sufficient rights to execute this command.
-37	ERROR_AUDIOTX_INUSE	
-38	ERROR_AUDIOTX_NOT_INUSE	
-39	ERROR_GETAUDIO_PARAMS	
-41	ERROR_GETTING_CAMTYPE	
-42	ERROR_GETTING_RESOLUTIONS	
-43	ERROR_NOT_AVAILABLE	
-44	ERROR_GET_FASTTRACE2_FIRMWAREVERSION	
-45	ERROR_GET_3PICS_DISTANCE	
-46	ERROR_GET_AUDIO_CFG	
-47	ERROR_NO_TIMESTAMP_FOUND	
-48	ERROR_PICTURE_TAMPERED	
-49	ERROR_NO_RESULTS	

16.2.2 Control protocol error codes

These error codes represent errors connecting to the client protocol server. The error codes can be both negative or positive. Positive error codes represent Microsoft socket errors (errors returned by the WSAGetLastError() function call, see Microsoft documentation for an explanation of these error codes).

Code	ERROR	Description
-50	ERROR_CONNECT_RESOLVE_IP	Connect function failed in gethostbyname() function call.
-51	ERROR_CONNECT_FAILED	Connection to the client protocol server failed.
-52	ERROR_CONNECT_START_LISTEN	Failed to start the control protocol listen thread.
-53	ERROR_CONNECT_SEND_MESSAGE	Failed to send a message to the control protocol server.
-54	ERROR_CONNECT_INVALID_REPLY	Unexpected reply while connecting to the control protocol server.
-55	ERROR_CONNECT_USER_PASSWORD	Invalid username - password combination.
-56	ERROR_SEND_FAILED	Failed to send a command to the control protocol server.
-57	ERROR_SEND_NO_REPLY	No reply received from the control protocol server within the specified timeout.
-58	ERROR_INVALID_PARAMS	Invalid parameters.
-59	ERROR_INVALID_REPLY	Invalid reply to a command.
-60	ERROR_COMMAND_FAILED	The command was not executed properly.
-61	ERROR_MAX_CONNECT_REACHED	Maximum number of connections reached.
-62	ERROR_OPEN_FILE	Error opening file (send & get file command).
-63	ERROR_FILE_OPERATION	Error performing a file operation.
-64	ERROR_CONNECT_NOTECHACCESS	Error connecting due to no technician grant.
-65	ERROR_COULD_NOT_ARM_DISARM	Error (dis)arming the system.
-66	ERROR_CANNOT_SWITCH_VM22A	Error switching the VM22A.
-67	ERROR_UNKNOWN_COMMAND_SEND	
-68	ERROR_CONNECT_USER_BLOCKED	
-69	ERROR_PICS_EMPTY	
-70	ERROR_PICS_INCOMPLETE	
-71	ERROR_PICS_NOVIDEO	
-72	ERROR_CONNECTED_BUTNOREPLY	
-73	ERROR_KEY_VALUE	
-74	ERROR_CMS_ACTIVE	

16.2.3 Filter graph/codec error codes

Code	ERROR	Description
-100	ERROR_DLL_VERSION	Decoder DLL version not high enough.
-110	ERROR_NO_DDRAW_SUPPORT	Graphical card error.
-120	ERROR_NO_BLIT_SUPPORT	Graphical card error.
-130	ERROR_FILTER_GRAPH	Error starting / stopping / pausing the filter graph.
-140	ERROR_START_SINK	Error starting the sink filter.
-150	ERROR_START_YUV_TRANSFORM	Error starting the YUV transform.
-155	ERROR_START_DECODER_TRANSFORM	Error starting the decoder filter.
-160	ERROR_START_SOURCE	Error starting the source filter.
-170	ERROR_STOP_SOURCE	Error stopping the source filter.
-180	ERROR_NO_SOURCE	Error no source filter.
-190	HIK_ERROR_PORT	Invalid decoder instance.
-200	HIK_ERROR_INVALID_PARAM	Invalid parameters.
-210	HIK_ERROR_INVALID_STATE	Can't perform this action in this state.
-220	HIK_ERROR_OPEN_FILE	Error opening file.
-230	HIC_ERROR_CLOSE_FILE	Error closing file.
-240	HIK_ERROR_ZERO_FILE_LEN	Empty file.
-250	HIK_ERROR_START_PLAY	Error starting video playback.
-260	HIK_ERROR_STOP_PLAY	Error stopping video playback.
-270	HIK_ERROR_PAUZE_PLAY	Error pausing video playback.
-280	HIK_ERROR_CONTINUE_PLAY	Error continuing video playback.
-285	HIK_ERROR_NO_DATA	Error no data.
-290	HIK_ERROR_START_AUDIO	Error starting audio playback.
-300	HIK_ERROR_STOP_AUDIO	Error stopping audio playback.
-310	HIK_ERROR_SET_AUDIOVOLUME	Error setting audio volume.
-320	HIK_ERROR_SET_FRAME	Error setting playback frame.
-330	HIK_ERROR_GET_VIDEOSIZE	Error getting the video source width and height.
-350	HIK_ERROR_GENERATE_DATA	Error generating data.
-360	HIK_ERROR_GET_SAMPLE	Error getting sample.
-370	HIK_ERROR_DISPLAY_CALLBACK	Error installing the decoder callback
-400	HIK_ERROR_HEADER	Invalid video header.
-410	HIK_ERROR_REC_START	Error starting recording.
-420	HIK_ERROR_REC_STOP	Error stopping recording.
-430	HIK_ERROR_REC_OPEN	Error opening recording.
-440	HIK_ERROR_REC_WRITE	Error writing recording.
-450	HIK_ERROR_FILE_EXISTS	File already exists.
-460	HIK_ERROR_SET_OPERATIONMODE	Error setting operation mode.
-470	HIK_ERROR_SET_THROW_BFRAME	Error instructing the decoder to drop decoding of certain B frames.
-480	HIK_ERROR_USERDATA_CALLBACK	Error installing the user data callback.
-490	HIK_ERROR_NOTHING_RECORDED	Nothing was recorded.
-500	HIK_ERROR_ALLOC	Null pointer passed.
-510	HIK_ERROR_SET_RESOLUTION_CHANGE_MSG	
-520	HIK_ERROR_SET_FILEEND_MSG	
-530	HIK_ERROR_SET_WATERMARK_CALLBACK	Failed to install watermark callback.
-550	HIK_ERROR_SETSTREAMOPENMODE	Error setting stream mode.
-560	HIK_ERROR_OPENSTREAM	Error opening stream.
-570	HIK_ERROR_CLOSESTREAM	Error closing stream.
-580	HIK_ERROR_READHEADER	Error reading video header.
-590	HIK_ERROR_CLEAR_BUF	Error clearing decoder buffers.
-600	HIK_ERROR_STOP_DECODING	Error stopping the decoding.
-610	HIK_ERROR_RENDERER_SLOW	
-650	ERROR_MISSING_H264_AAC_DECODER	

-660	ERROR_MISSING_H264_DECODER	
-670	ERROR_MISSING_AAC_DECODER	
-700	ERROR_INVALID_PARAMS	Invalid parameters.
-710	ERROR_INVALID_USERID	Invalid user ID.
-720	ERROR_INVALID_IPADDR	Invalid IP address.
-730	ERROR_SET_RTPOVERTSP	Error setting TCP streaming.
-740	ERROR_SET_MULTICAST	Error setting multicast streaming.
-750	ERROR_INVALID_CHANNEL	Invalid video channel.
-760	ERROR_MAX_RENDERERS	Max renderers.
-770	ERROR_UNKNOWN_RENDERER	Unknown renderer.
-780	ERROR_WRONG_EXTENSION	Wrong file extension.
-800	LIVE_ERROR_CREATE_TASKSCHEDULER	Error creating RTSP task scheduler.
-810	LIVE_ERROR_CREATE_BASICUSERENV	Error creating RTSP usage environment.
-820	LIVE_ERROR_CREATE_RTSPCLIENT	Error creating RTSP client.
-830	LIVE_ERROR_DESCRIBE_URL	Error sending RTSP describe command.
-840	LIVE_ERROR_CREATE_MEDIASESSION	Error creating media session.
-850	LIVE_ERROR_PLAY_MEDIASESSION	Error playing media session.
-860	LIVE_ERROR_INVALID_SESSION	Invalid media session.
-870	LIVE_ERROR_FORCE_STOP	Had to kill the netsource thread.
-880	LIVE_ERROR_THREAD_START	Error starting receive thread.
-890	LIVE_ERROR_NO_VIDEO_CODEC_FOUND	No suitable video codec found.
-900	LIVE_ERROR_NO_AUDIO_CODEC_FOUND	No suitable audio codec found.
-910	LIVE_ERROR_INVALID_SDP_LINE	Invalid session description protocol line.
-920	LIVE_ERROR_GET_CONFIG	Invalid config returned by server.
-950	ERROR_FILEMAP_CREATE	Failed to create the interprocess communication.
-960	ERROR_NAMEDEVENT_CREATE	Failed to create the interprocess communication.
-970	ERROR_CREATE_PROCESS	Failed to start the communication process.
-980	ERROR_NO_REPLY_FROM_PROCESS	No reply from the communication process.
-990	ERROR_RTSP_CONNECT_FAILED	RTSP connection failed.
-1000	CODEC_ERROR_NOT_FOUND	Codec not found.
-1010	ERROR_TOO_MANY_FRAMES_IN_QUEUE	
-1020	ERROR_CONNECTION_LOST	

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