



TSP7000

TOUCH SCREEN
VIDEO CONSOLE

INSTALLER MANUAL



Release:	1.1
Update:	February 2010
Language:	English

The features of the console can be subject to change without notice. Unauthorized reproduction or distribution of this manual, or any portion of it, on any device and in any form, is prohibited. The contents of this manual may be subject to change without notice.

CONFORMITY

Hereby, Tecnoalarm srl declares that the present equipment is in compliance with the essential requirements and other relevant provisions of the LVD 2006/95/EC and EMC 2004/108/EC directives.

The declaration of conformity is available on the website: www.tecnoalarm.com.

PREFACE

IMPORTANT NOTES

The use of monitoring devices in some environments can be prohibited by law.
The network cameras are devices with high performances ready to function on the web, but they can also be devices of a flexible surveillance system.
The user must ensure that the use of these surveillance devices is permitted and legal before proceeding with their installation.



WARNING

All the "**WARNING**" notes contain important information for the user.
To ignore these warnings can be dangerous.

INDEX

1. CONSOLE

1.1	FRONTVIEW	1-1
1.2	REVERSESIDE	1-2

2. FUNCTIONS

2.1	INITIATION	2-1
2.2	DIRECTFUNCTIONS	2-2
2.2.1	Viewing of the single cameras	2-2
2.2.2	Volume settings	2-3
2.2.3	Brightness settings	2-3
2.2.4	Switching the display on/off	2-3
2.3	FUNCTIONSACCESSIBLEWITHCODE	2-4
2.3.1	Access with installer code	2-4
2.4	INSTALLERMENU	2-5
2.4.1	Icons	2-5
2.5	EVENTS	2-6
2.6	VIEWINGOF THEZONES	2-10
2.6.1	Voluntary permanent exclusion of a zone	2-11
2.6.2	Voluntary re-enabling of a zone	2-11
2.6.3	Viewing of the open zones	2-12
2.7	CAMERAS	2-13
2.7.1	Viewing of a camera	2-13
2.7.2	Viewing of a group of cameras	2-14
2.8	SETTINGS	2-15
2.8.1	Volume setting	2-15
2.8.2	Brightness setting	2-15
2.8.3	Deletion/extraction of photos from the memory	2-15
2.8.4	Installation/removal of USB key	2-16
2.8.5	Enabling of the external monitor output (TV)	2-17
2.8.6	Calibration of the touch screen display	2-18
2.8.7	Backup of configuration on USB key	2-19
2.8.8	Restore of configuration from USB key	2-19
2.8.9	System information	2-20
2.9	VIDEOALARMSETUP	2-21
2.9.1	Initialization of the cameras	2-21
2.10	VIRTUAL CONSOLE	2-23
2.11	RESETCONFIGURATION	2-24
2.11.1	IP address modification	2-24
2.11.2	Send console configuration	2-25

APPENDIX A - SPECIAL PROCEDURES

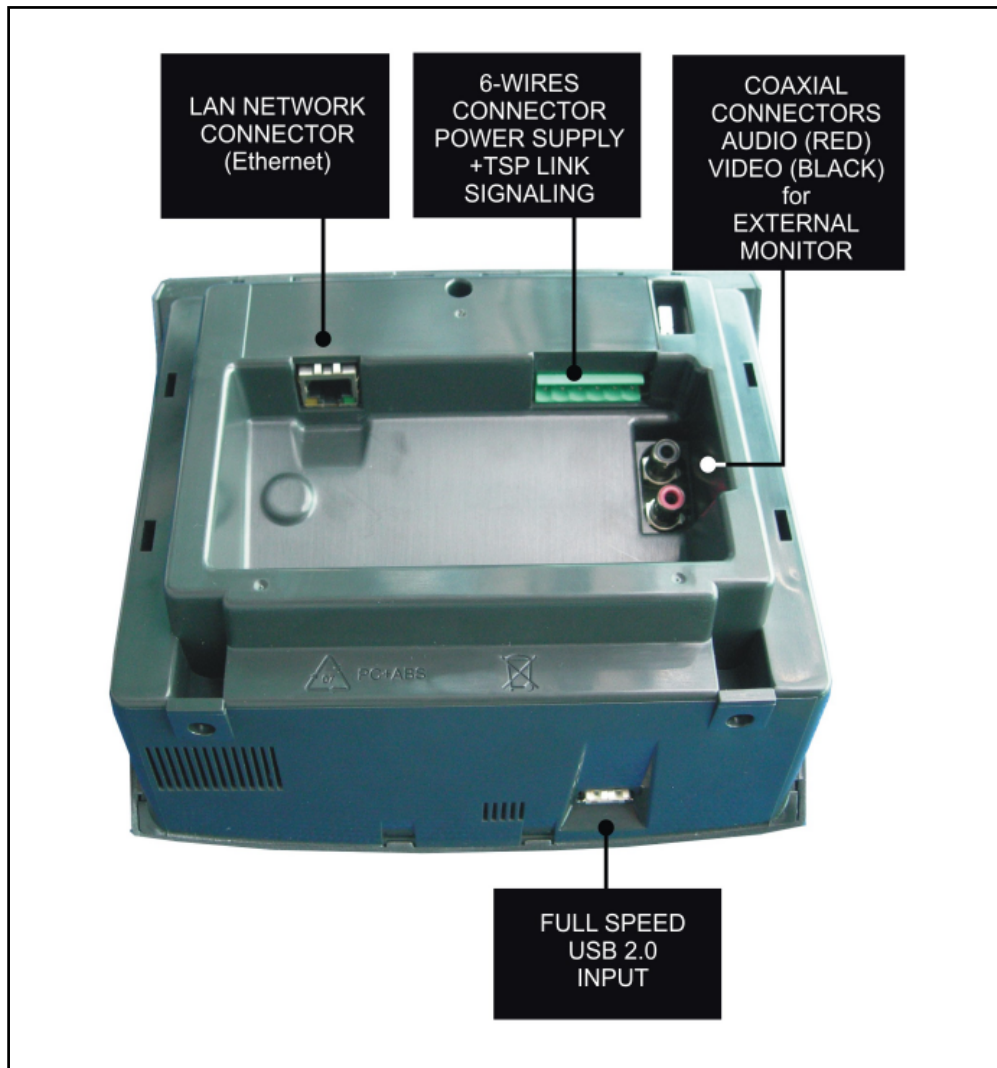
A.1	FIRMWAREUPGRADE	A-3
-----	-----------------	-----

1. CONSOLE

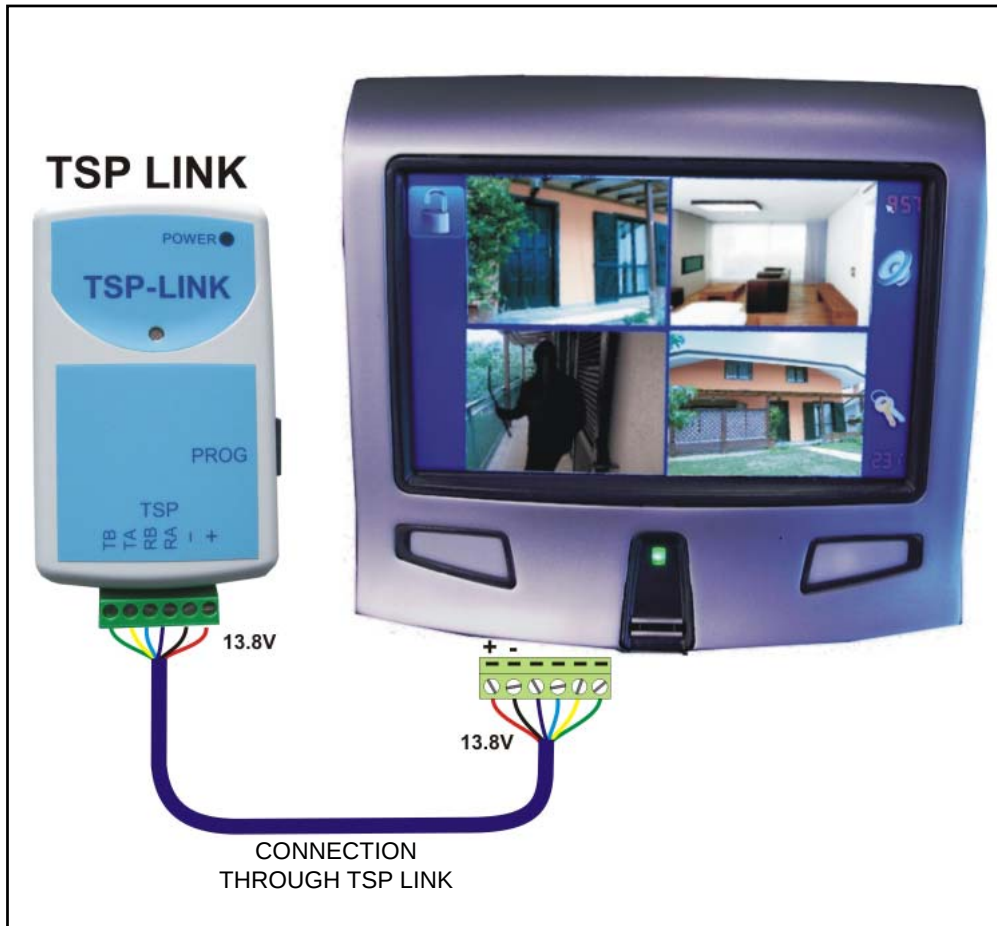
1.1 FRONT VIEW



1.2 REVERSE SIDE







2. FUNCTIONS

2.1 INITIATION



Upon the first initiation of the console, on the screen is viewed the beside image.

The console is initiated.

After initiation (which can require a few minutes), the stand-by screen is displayed.



STAND-BY

According to the installer programming, the stand-by screen views the following items:

- max. 4 video streams
- max. 4 customizable function keys
- the time of the installation
- an icon for loudspeaker volume setting
- an icon for display brightness setting
- an icon for access with code
- the ambient temperature



WARNING

All of the procedures in the stand-by environment can be executed without any access code.

For security reasons, it is recommended to reduce to a minimum the procedures which can be executed in this environment in order to avoid that whoever passes by the console has access to private information or can execute confidential controls.

2.2 DIRECT FUNCTIONS



WARNING

The direct functions, i.e. accessible without code, are programmed by the installer during system configuration.



For simplicity reasons, on the following pages the most common configuration is analysed.

STAND-BY ENVIRONMENT

In stand-by, the console usually shows:

- video streams of a variable number of cameras (1 to 4)
- the time (in different formats)
- the detected ambient temperature
- loudspeaker volume setting icon
- display brightness setting icon



Time of the console



Volume setting



Volume off



Identification



Brightness setting



Temperature

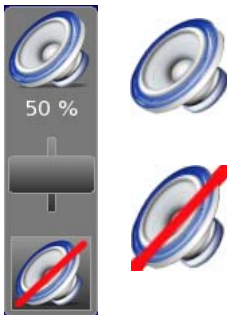


2.2.1 VIEWING OF THE SINGLE CAMERAS

When the console is in stand-by, touch one of the video streams displayed.



On the screen is viewed what is being recorded by the selected camera.



2.2.2 VOLUME SETTING

To set the volume of the voice messages of the video console, touch the loudspeaker icon then move the scroll bar to the value desired.
To switch off the volume, touch the crossed-out loudspeaker icon or move the scroll bar to zero.



2.2.3 BRIGHTNESS SETTING

To set the display brightness, touch the bulb icon then move the scroll bar to the desired value.



2.2.4 SWITCHING THE DISPLAY OFF/ON

Press the button on the lower right hand side of the console to switch off the display.

The display is off until you press the same button again.

2.3 FUNCTIONS ACCESSIBLE WITH CODE

2.3.1 ACCESS WITH INSTALLER CODE

When the console is in stand-by (beside image), touch the key icon.



On the screen is viewed the virtual keypad. Enter the installer code (default 54321).



CODE NOT RECOGNIZED

If the composed code **is not** recognized, the console does not execute any operation.

CODE RECOGNIZED

If the composed code **is** recognized, the console gives access to the installer menu.

2.4 INSTALLER MENU

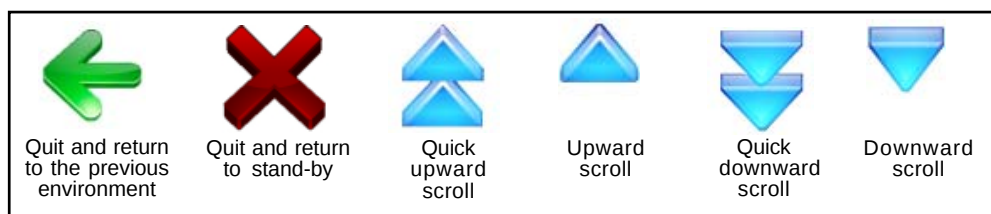
The following functions are available:

- **Events** Viewing of the events detected by the control panels and recorded by the video console (arming/disarming, alarms, photos etc.)
- **Zones** Viewing of the current status, permanent zone exclusion, viewing of the events relating to the zone
- **Cameras** Viewing of the images recorded in real-time by the selected camera or the cameras (group of 4)
- **Virtual console** Simulates an external console.
- **VIDEOALARM Setup** Permits programming and viewing of the functions of the control panel. The system recognizes all the connected TEC2000 cameras and executes their automatic programming with the necessary parameters for correct functioning with the TSP7000 console.
- **Settings** Setting of the loudspeaker volume and display brightness, cancelling of the recorded events from the memory, copying of the events onto USB memory sticks, activation of the external monitor output (TV)
- **Reset configuration** Permits reset configuration of the TSP7000 . After reset, it is necessary to reprogram IP address and its functions of the console.
- **Firmware update** For updating of the console firmware only and to be executed with the assistance of the Tecnoalarm technicians only (see appendix A)

2.4.1 ICONS

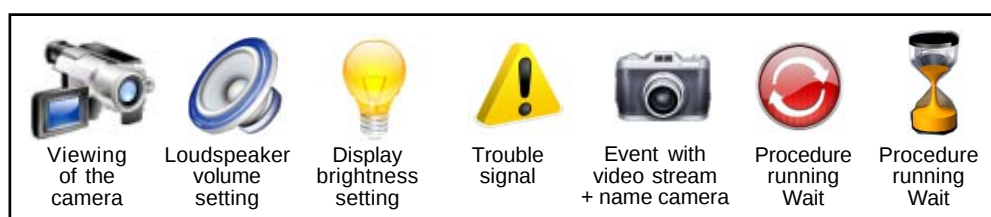
NAVIGATION ICONS

The following icons are normally viewed on the right hand side of the display and permit the navigation of the different menus of the TSP7000 console.



FUNCTION ICONS

The following icons are viewed in the different operating environments and are normally viewed on both sides of the display:



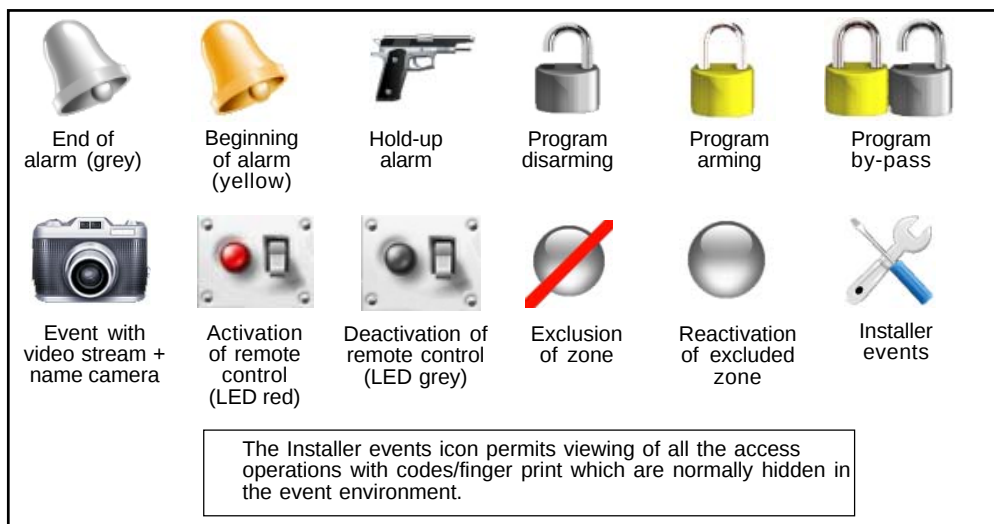
2.5 EVENTS



Touch **Events** to enter this environment.
On the display are viewed all the events recorded in the memory of the console.



Each icon represents a different type of event:



03/04/09 06:34:25  Fine allarme Zona 1 [DETECTOR ZONE 1]

03/04/09 07:45:15  Disinserimento Automatico Programma 2

03/04/09 12:30:07  Camera 1

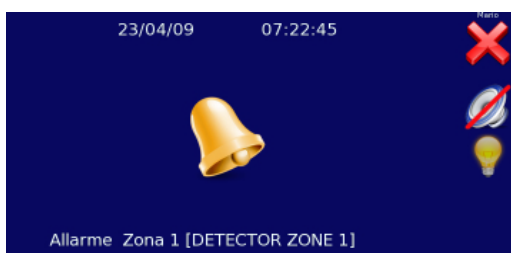
The date and time of the recorded event and the description always viewed for each event, e.g.:

Alarm Zone 1

Automatic disarming program 2

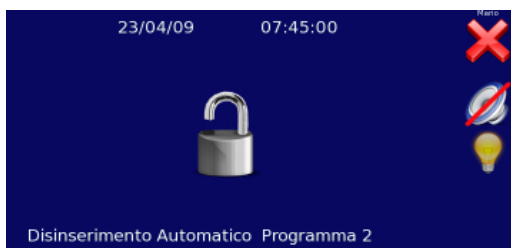
Event with photos registered by the camera 1

Touching an event, it is possible to view the additional information (if present) or to view the video stream associated to this event.

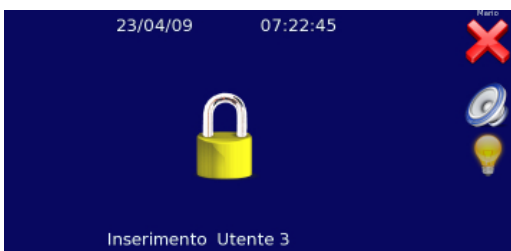


ZONE ALARM

For each zone alarm, date and time of the event as well as the zone name is shown.



AUTOMATIC DISARMING OF PROGRAM 2



ARMING BY USER 3

EVENT WITH VIDEO STREAM

Telecamera 3 - 12:30:37 03/04/2009



A sequence of 8 photos is associated to each of these events.

- The 4th photo of the first line shows the event which has released the alarm.
- The first 3 photos show the situation recorded by the camera during the seconds right before the event.
- The 4 photos of the second line show the situation recorded by the camera during the seconds right after the event.

Touch one of this photos to view it in the full screen mode.



Commands available

Digital zoom in of the image (+)



Digital zoom out of the image (-)



Return to the standard size of the image

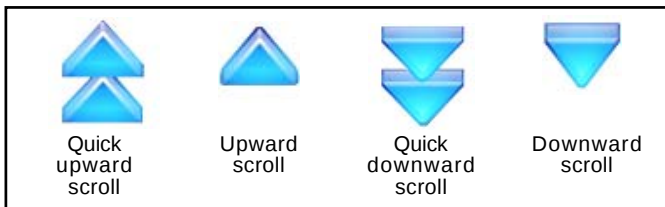
NAVIGATION OF THE EVENT LOG

The events are viewed in chronological order starting from the newest event.

Navigate the event list using the below up and down arrows or simply scrolling the screen from the top to the bottom or vice et versa with a finger.

The events are listed in order of date and time.

Touch the screen again in order to stop scrolling.

**NAVIGATION ICONS**

2.6 VIEWING OF THE ZONES



Touch **Zones** to enter this environment.

All the zones of the control panel are viewed. Each zone shows the following information:

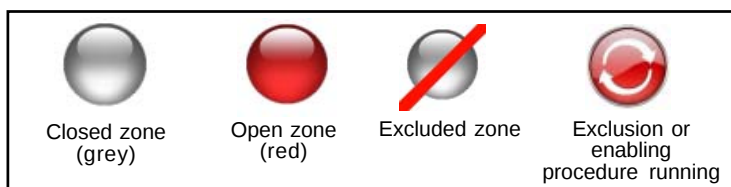
- Status and name
- Zone alarm memory



STATUS AND NAME

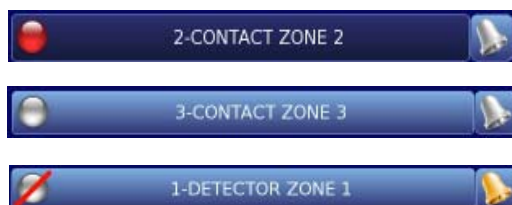
Number and the name associated to the zone as well as its status. The zone status is shown by the status indicators and by the color.

Status indicators



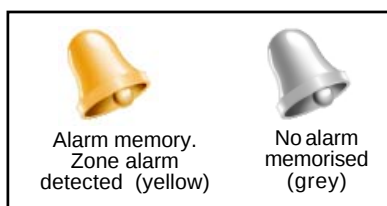
Zone color

- **Open zone**
Trouble signaling. The open zone is viewed with a dark blue color.
- **Closed zone**
OK. The closed zone is viewed with a clear blue color.
- **Excluded zone**
Defines that the zone is voluntarily excluded from the alarm detection.



ALARM ZONE MEMORY

The bell is viewed on the right hand side and signals that a zone alarm has been detected. Touch the bell to view the alarms released during the last arming period.





2.6.1 VOLUNTARY PERMANENT EXCLUSION OF A ZONE

Touch the zone to exclude (e.g. zone 1).
On the screen is viewed the beside image.

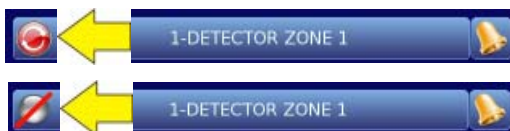
Commands available

- **YES** to confirm the permanent exclusion of the zone
- **NO** to abandon



Confirming the zone exclusion, on the screen is viewed the beside image.

The circle icon on the left is viewed while the exclusion procedure is running.



Wait till the procedure has been completed and the beside image is displayed.

The crossed circle icon on the left indicates that the zone has been excluded.



WARNING

The zone is excluded (**not controlled by the control panel**) until it is voluntarily included by the user.

2.6.2 VOLUNTARY RE-ENABLING OF A ZONE

Touch the zone to enable it again (e.g. zone 1).
On the screen is viewed the beside image.

Commands available

- **YES** to confirm the permanent inclusion of the zone
- **NO** to abandon



Confirming the zone inclusion, on the screen is viewed the beside image.

The grey circle icon on the left indicates that the zone is included again (i.e. is activated).



2.6.3 VIEWING OF THE OPEN ZONES

Touch the **Zone status** icon on the right hand side to view the open zones only.
All the open zones are viewed.



This environment permits:



- **Exclusion of one of the open zones**
Touch the zone to be excluded and follow the procedure § 2.6.1
- **Viewing of the events of the selected zone**
Touch the bell to view the alarms memorised for the selected zone.

2.7 CAMERAS



Touch **Cameras** to enter this environment.
On the screen is viewed:



All the cameras controlled by the control panel
are viewed on the screen by groups of 4.

NAME OF THE CAMERA

The number and the name associated to the
camera is shown in the corresponding box of
each camera.

The beside icon is shown in the center of each
group of 4.



2.7.1 VIEWING OF A CAMERA

Touch the icon corresponding to the camera to
view.





On the screen is shown what has been recorded by the selected camera.



2.7.2 VIEWING OF A GROUP OF CAMERAS

Touch the camera group icon to be select.



On the screen is viewed what has been recorded by the selected camera.

2.8 SETTINGS



Touch **Settings** to enter this environment.



2.8.1 VOLUMESETTING

See the procedure of paragraph § 2.2.2

2.8.2 BRIGHTNESSSETTING

See the procedure of paragraph § 2.2.3

2.8.3 DELETION/EXTRACTION OF PHOTOS FROM THE MEMORY



ATTENTION

The photos deleted from the memory cannot be recovered.
Always act with prudence before deletion.

All the photos recorded after an alarm are stored in the memory of the console.

This memory is slowly filled.

When the memory is almost full, the installation automatically deletes the oldest photos in order to store the latest events.

See the deletion procedure to voluntarily delete part of the memory.



Touch the beside icon to enter the photos memory.
On the screen is viewed:



DELETION

Touch the basket icon to delete the photos stored in the memory starting from the oldest one.

COPY

Touch the USB icon to copy the photos onto the USB key starting from the oldest one.

2.8.4 INSTALLATION/REMOVAL OF USBKEY



WARNING

The USB key must to be installed on the system before use. To avoid data loss, **always** uninstall the USB key with the correct procedure before you remove it. Otherwise all the data will be lost.



INSTALLATION OF USB KEY

Touch the USB icon. On the screen is viewed the beside image.

Insert the USB key into the USB port. Touch **Proceed** to continue the installation procedure of the USB key.



Once the installation has been completed, on the screen is viewed the beside image.

The USB key is ready for use.

The remaining storage capacity is viewed.

**REMOVAL OF USB KEY**

Touch the USB icon.

On the screen is viewed the beside image.

Touch **Proceed** to continue the uninstall procedure of the USB key.



Once the key has been uninstalled, on the screen is viewed:
the USB key can be removed.

2.8.5 ENABLING OF THE EXTERNAL MONITOR OUTPUT (TV)

Touch the TV-OUT icon to enable the external monitor output.

The status of the external monitor output is viewed by the status indicators.

**Status indicators**

External monitor output enable, i.e. **active**
(Audio + Video)

External monitor output disable, i.e. **not active**



2.8.6 CALIBRATION OF THE TOUCH SCREEN DISPLAY

Touch **Touchscreen** to enter this environment.



WARNING

The calibration must be executed upon request and under the guidance of the Tecnoalarm technicians only.
At the end of this procedure the console automatically restarted.



On the screen is viewed the beside image.

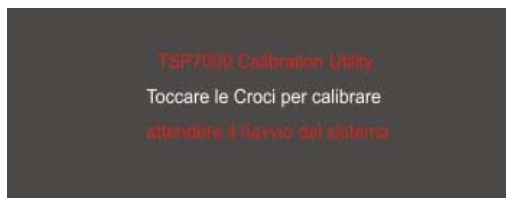
Commands available

- **YES** to confirm the calibration of the display
- **NO** to quit



On the screen is viewed the beside image.

Touch with a finger or a touchpen the crosses in the 4 corners and in the centre of the display follows.



Once the procedure has been completed, on the screen is viewed the beside image.

The system is automatically restarted.



2.8.7 BACKUP OF CONFIGURATION ON USB KEY

Touch **Backup configuration** to enter this environment.

This procedure permits to save the configuration of the TSP7000 console on the USB key. Before beginning the procedure, install the USB key. On the screen is viewed the beside image.

Commands available

- **YES** to confirm the backup of the configuration on the USB key
- **NO** to abandon

At the end, on the screen is viewed the following message:

Backup configuration OK.

2.8.8 RESTORE OF CONFIGURATION FROM USB KEY

Touch **Restore configuration** to enter this environment.

This procedure permits to upload the configuration previously saved on the USB key onto the TSP7000 console. In this way, it is possible to copy the settings of one TSP7000 video console in another.



	WARNING The configuration restore must be executed upon request and with the assistance of the tecnalarm technicians only. At the end of this procedure the console is restarted.
---	---



On the screen is viewed the beside image.

Commands available

- **YES** to upload the configuration previously saved on the USB key
- **NO** to abandon

At the end, on the screen is viewed the beside image.

Touch OK and wait for the system to restart.

2.8.9 SYSTEM INFORMATION

Touch **Info** to enter this environment.



On the screen are viewed all the information about the system:

Video console

- Name of the product TSP7000
- Name of the producer Tecnoalarm
- Firmware version 0.3 beta
- Date/hour of release 19/06/09 - 13:40

Biometric finger print reader

- Firmware version
- Type of reader

2.9 VIDEOALARM SETUP



Touch **VIDEOALARM Setup** to enter the cameras programming environment.



On the screen is viewed the beside image. Touch **Proceed** to search for the cameras connected to the network of the TSP7000 video console.



On the screen is viewed the beside image. The system searches all the Tecnoalarm cameras connected to the network and programmed by the installer. The message **found 4 of 4** means that 4 cameras have been programmed and 4 cameras have been detected. If a camera is not connected or not found, the message viewed is **found 3 of 4**.

	WARNING If the cameras found are less than those programmed, it means that the cameras are not physically connected to the network or not active, or the IP address or password are not correct. Verify thoroughly the connections and settings of the cameras before you continue.
---	--



2.9.1 INITIALIZATION OF THE CAMERAS
Touch **Proceed** to start the initialization of the detected cameras.



WARNING

The initialization of the cameras must be executed in case of functioning troubles or video signal troubles only.
Before initialization of the cameras, always verify their connection to the network and to the power supply.
If after that, the camera does not work, it is necessary to reset it (see appendix A).



On the screen is viewed the beside image.

The system restores the configuration for functioning with the TSP7000 consoles.

The procedure is viewed in sequence.

Once the initialization has been correctly completed, on the screen is viewed the beside image.

The cameras are ready to work.

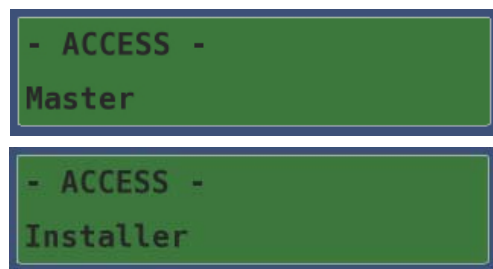
2.10 VIRTUAL CONSOLE



Touch **Settings** to enter the virtual console environment.

The virtual console environment permits the access to programming of the control panel connected to the TSP7000 console just the way access to the control panel is made by an external console.

Compose an access code to enter programming of the control panel.



Access with master code

Access with installer code

	WARNING Once programming has been completed, touch EXIT on the virtual console. Only after this, touch the exit icon of the TSP7000 console environment.	
---	---	---

2.11 RESET CONFIGURATION



Touch **Reset configuration** to enter this environment.
The configuration reset permits to completely cancel programming of the TSP7000 console .

	WARNING When the reset begins, the console is stopped. Upload the console configuration by PC to restart the console. During reset configuration, the IP address of the console is not modified. Even in case of IP address modification, it is highly recommended to upload the console configuration by PC again.
--	--



Commands available

- **YES** to confirm reset configuration
- **NO** to quit



The cancellation of the memory comprises also the cancellation of all the photos included in it.

Commands available

- **YES** to confirm formatting of the memory of the console
- **NO** to quit



On the screen is viewed the beside image.

Options available

- **Modification IP address**
- **Programming upload**
Permits to upload a new programming by PC.

2.11.1 IP ADDRESS MODIFICATION

To modify the IP address:

- Touch the **X** icon on the right hand side of the screen



On the screen is viewed the beside image.

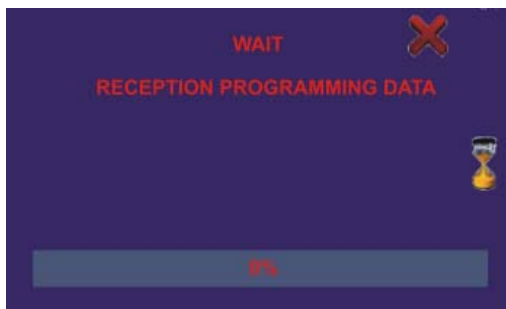
- Compose the new IP address of the TSP7000 (**default 192.168.95.151**)

- Touch **Enter**

The TSP7000 video console is restarted with the new IP address.

**WARNING**

Even in case of IP address modification, it is highly recommended to resend the console configuration by PC.

**2.11.2 SEND CONSOLE CONFIGURATION**

Before proceeding, wait until the console has been restarted and the following procedures have been completed and the beside image is displayed.

To send the new configuration to the TSP7000 console, in the programming software, select the corresponding user, enter the IP address on the console and continue following indications provided by the software .

If the communication between Tecnoalarm monitoring software and the video console is active, on the display is viewed the beside image. Send programming through the programming and monitoring software.

APPENDIX A

SPECIAL PROCEDURES

A. SPECIAL PROCEDURES

A.1 FIRMWARE UPGRADE

**WARNING**

Firmware upgrade is a dangerous procedure because it modifies functioning of the console.

Once started, it is impossible to interrupt the procedure without compromising functioning of the device.

This procedure must be executed with the assistance of the Tecnoalarm technicians only.



Proceed as follows:

- TSP7000 video console must be in stand-by
- Touch the **"Insertion of codes"** icon
- Enter the installer code (default 54321)



On the screen is viewed the installer menu

- Touch **"Firmware upgrade"**



On the screen is viewed the beside image:

- Touch **"YES"** to upgrade the firmware of the TSP7000 video console



On the screen is viewed the beside image. Insert a USB key with the new firmware version. The new firmware (tsp7000.bin) must be in the following folder on the USB key:
tecnoalarm\tsp7000.bin

- Touch **Proceed** to start the firmware upgrade of the TSP7000 video console.
- The USB key is automatically installed on the system.



ERROR
USB key reading error.



ERROR
Position error or file missing.



KEYOK
Firmware upgrade is started.



At the end of the procedure, on the screen is viewed the beside image. Remove the USB key.

- Touch **Proceed** to continue.



On the screen is viewed:

- Touch **Proceed** to finish the procedure.

Wait for the system to be restarted firmware version.



WARNING

Firmware upgrade neither modifies programming neither the IP address of the TSP7000 video console. However it is recommended to always verify programming and functioning after the upgrade.

TSP7000 INSTALLER MANUAL