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.
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.
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1. SETUP STEPS

WARNING
Building a Videoalarm integrated video system components is a complex process. The installation and programming procedure is simplified by the below setup steps. However it is recommended to pay utmost attention when executing this procedure as skipping of some steps can prejudice the correct functioning of the system.

A Verification of the hardware and software requirements
- Hardware
- Software
- Initial requirements

B Local programming of control panel (USB)
- Connection of the control panel via USB port
- Date and time check

C Ethernet programming (PC-control panel)
- Programming the control panel IP address
- Uploading of programming to the control panel
- Checking IP address of PC

D Ethernet connection check (PC-control panel)
- Verification of the connection between the control panel and the network

E IP device connection (TSP7000-cameras)
- TSP7000 connection
- TSP7000 initiation
- Camera connection

F Camera configuration
- Installation of Wizard 2 software
- Verification of the presence of the jumper on the cameras

G TSP7000 configuration
- Adding of TSP7000 to user file
- Selection of TSP LINK protocol
- Access to TSP7000 programming
- Communication check
- Configuration tables
- Uploading of programming to TSP7000

H VIDEOALARM setup
- Camera initialization
- System functioning check
1.A VERIFICATION OF THE HARDWARE AND SOFTWARE REQUIREMENTS

1.A.1 HARDWARE
Compatible control panels
- TP16-256 From firmware rel. 3.0 onwards
- TP8-64 BUS From firmware rel. 2.0 onwards
- TP8-96 VIDEO From firmware rel. 0.5.14 onwards
- TP16-512 GSM From firmware rel. 0.5.14 onwards

Videoalarm cameras
- TEC2000LF IP Tecnoalarm cameras 640x480 fixed lens
- TEC2000LI IP Tecnoalarm cameras 640x480 interchangeable lens

Videoalarm Vivotek cameras
- IP7330 Outdoor IP cameras 640x480 fixed lens
- IP7142 Outdoor IP cameras 640x480 varifocal lens
- FD7130 Ceiling-mount IP cameras varifocal lens
- FD7131 Ceiling-mount IP cameras fixed lens

Videoalarm Vivotek Video Server
- VS7 100 Vivotek Video Server for connection of coaxial cameras

Programming interface
- PROGUSB Multifunction TTL, USB, RS485 RS232 interface
- TSP LINK TTL interface

Ethernet switch
- Ethernet switch 10-100 Min. 8 ports
- Ethernet network cable UTP ethernet cable Cat 5 Max. 100 meters length for each section

1.A.2 SOFTWARE
- Camera configuration software Installation Wizard 2 provided with cameras
- Tecnoalarm software Version 4.0 or following
- Software license Local programming or remote management with video system management (key 19 on the license)
- PROG USB driver CDM 2.06.00 WHQL Certified
- USB Tecnoalarm driver tecnousb.inf (for TP8-96 VIDEO and TP16-512 GSM control panels)
1.A.3 INITIAL REQUIREMENTS

PC
- Tecnoalarm remote management software installed with appropriate license
- Installation Wizard 2 software for the installed devices
- IP address of the PC with the same class as the one for the cameras and the video consoles (i.e. 192.168.95.10)
  Use the IP address **192.168.95.10** because it has the same class as, but it is distant enough from, that of the camera and the video console.

**WARNING**
Before changing the IP address of the PC, always check with the network administrator possible problems and/or limitations.

MODIFICATION OF THE IP ADDRESS OF THE PC
See § A.1

CONTROL PANEL RESET
See § A.2

TEC2000 CAMERA RESET
See § A.3

1.B LOCAL PROGRAMMING OF THE CONTROL PANEL (USB)

1.B.1 CONNECTION OF THE CONTROL PANEL VIA USB PORT
Program the control panel as usual through the internal USB port (TP8-96 VIDEO and TP16-512 GSM) or through the PROG USB interface (TP8-64 BUS and TP16-256) and using the Tecnoalarm software from the version 4.0 onwards (see chapter 4).

1.B.2 DATE AND TIME CHECK
Verify the correspondence of date and time between the control panel and the PC. If necessary synchronize them.

**WARNING**
For a correct functioning of the system, date and time on the control panel and on the PC must be synchronized.
1.C ETHERNET PROGRAMMING (PC-CONTROL PANEL)

1.C.1 PROGRAMMING THE CONTROL PANEL IP ADDRESS

TP8-96 VIDEO or TP16-512 GSM control panels
It is possible to program the IP address of the TP8-96 VIDEO and TP16-512 GSM 192.168.95.150 by console (installer code, Ethernet menu + IP address) or by PC using the Tecnoalarm software. See the beside image. See § 4.4.1.

TP8-64 BUS or TP16-256 control panels
The IP address of the TP8-64 BUS and TP16-256 can be programmed by Tecnoalarm software only and it must be the same of the one assigned to the TSP7000 console. Program the address 192.168.95.151.
See § 4.4.1.

1.C.2 UPLOADING OF PROGRAMMING TO THE CONTROL PANEL

Once programming is completed, upload it to the control panel. See § 4.4.5

1.C.3 CHECKING IP ADDRESS OF THE PC

Check if the IP address of the PC used for programming has the same class as the system. Program the address 192.168.95.10. See § A.1
1.D ETHERNET CONNECTION CHECK
(PC-CONTROL PANEL)

Remove the USB cable used for local programming of the control panel.

TP8-96 VIDEO control panel
Connect the UTP CAT 5 network cable between PC and the 8 ports Ethernet switch of the control panel. It is recommended to use the inputs 7 and 8 or one of the inputs 1 to 6. For this, insert either PWR1-ETH, PWR2-ETH or PWR3-ETH jumper so as to close the two positions on the left. See § 4.6.

TP16-512 GSM control panel
Connect an external 10-100 switch to the Ethernet port of the control panel. Connect a network cable to the PC and to the switch.
TP16-256 control panel

TP8-64 BUS control panel
1.D.1 VERIFICATION OF THE CONNECTION BETWEEN THE CONTROL PANEL AND THE NETWORK

Once the control panel has been connected to the Ethernet network, verify its correct functioning.

- Start the Tecnoalarm software
- Open the user archive and select the system
- Enter to the local programming environment
- Click on the icon corresponding to the Ethernet connection (as indicated by the arrow on the beside image)

- Verify if the communication between the Tecnoalarm software and the selected control panel is active by means of the arrow in the lower right hand corner of the screen:
  - Green arrow = Ethernet network communication present
  - White arrow = Ethernet network communication absent

**WARNING**
The connection is active when the IP address assigned to the control panel corresponds to that of the Tecnoalarm software.
1.E IP DEVICE CONNECTION (TSP7000-CAMERAS)

1.E.1 TSP7000 CONNECTION

Power supply via Ethernet network

Connect a UTP CAT 5 network cable to the TSP7000 video console and the 8 ports Ethernet switch of the control panel (if possible, use the Ethernet inputs 1 to 6). On the CPU board of the control panel, insert either the PWR1-ETH, PWR2-ETH or PWR3-ETH jumper so as to close the two positions on the right. Using the input 1, insert the PWR1-ETH jumper so as to close the two positions on the right (ETH).

WARNING

By connecting the console to the Ethernet port 1 and by inserting the PWR1-ETH jumper over the two positions on the right, power supply of the console is provided by the switch through the network cable. It is not necessary to connect the power supply connector.

External power supply

Connect a UTP CAT 5 network cable to the TSP7000 video console and to the 8 ports Ethernet switch of the control panel (use any input). Insert either the PWR1-ETH, PWR2-ETH or PWR3-ETH jumper so as to close the 2 positions on the left. Using the input 1, insert the PWR1-ETH jumper over the two positions on the left (ETH).
1.E.2 TSP7000 INITIATION

The console is initiated as soon as power supply is connected.

Once the initiation has been completed (which can require a few minutes), on the screen is viewed the beside page. Program the IP address of the TSP7000 video console:

- Enter the IP address **192.168.95.151** on the virtual keypad viewed
- Touch ENTER

The console is initiated.

Wait until the beside image is viewed. The TSP7000 video console is connected to the network and it is waiting for programming by PC.
1. E. 3 CAMERA CONNECTION

Power supply through the TP8-96 VIDEO control panel
Connect a UTP CAT 5 network cable to the cameras and to the 8 ports switch of the control panel (it is recommended to use the Ethernet inputs 1 to 6). Insert either PWR1-ETH, PWR2-ETH or PWR3-ETH jumper so as to close the two positions on the left.

Connect the power supply cable of the cameras to the appropriate terminals of the control panel respecting the polarity (white wire = positive voltage and black wire = negative voltage).
TP8-96 VIDEO + Splitter power supply through the Ethernet network

Connect a UTP CAT 5 network cable to the cameras and to the 8 ports switch of the control panel (it is recommended to use the Ethernet inputs 1 to 6). Insert either the PWR1-ETH, PWR2-ETH or PWR3-ETH jumper so as to close the two positions on the right.

Connect the power supply cable of the cameras to the appropriate terminals of the control panel respecting the polarity (white wire = positive voltage and black wire = negative voltage).
1.F CAMERA CONFIGURATION

1.F.1 "INSTALLATION WIZARD 2" SOFTWARE
Install the software for the detection and the configuration of the cameras Installation Wizard 2 on the PC.

Start the Installation Wizard 2 software. For each camera detected on the network, it is necessary to program:
- The password
- Synchronize date and time with those of the PC
- IP address
- Subnet Mask
- Gateway
See § A.4.

1.F.2 VERIFICATION OF THE PRESENCE OF THE JUMPER ON THE CAMERAS
Always verify the presence of the hardware jumper between digital input and ground terminal on the reverse side of the camera.
See § 3.3.1 and 3.4.1
1.G TSP7000 CONFIGURATION

1.G.1 ADDING TSP7000 TO USER FILE
Add the TSP7000 console on the user file of the Tecnoalarm software in the "IP devices" section. See § 5.3.

1.G.2 SELECTION OF TSP LINK PROTOCOL (TP8-64 BUS AND TP16-256)
Connect the TSP LINK and select TSP LINK protocol (master code, menu, options, protocol). See § 4.5.

1.G.3 ACCESS TO TSP7000 PROGRAMMING
Click on the beside icon of the user file (Tecnoalarm software) to enter video console programming. See § 5.4.

1.G.4 COMMUNICATION CHECK
Check communication between Tecnoalarm software and TSP7000. The communication is active if the arrow is green.
Wait until the beside image is viewed on the video console.
1.G.5  CONFIGURATION TABLES
Complete the TSP7000 configuration table as requested.

<table>
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<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Check if as many cameras have been programmed as have been installed (add or remove if necessary).</td>
</tr>
<tr>
<td>B Check if the password programmed for each camera corresponds to the one programmed during camera configuration using the Installation Wizard 2 software.</td>
</tr>
<tr>
<td>C For each camera it is compulsory to fill in the following items:</td>
</tr>
<tr>
<td>● Description  name associated to the camera. It will be viewed on the photos registered by the camera permitting its identification</td>
</tr>
<tr>
<td>● IP address must correspond to programming § 1.F.2</td>
</tr>
<tr>
<td>● User must correspond to programming § 1.F.2</td>
</tr>
<tr>
<td>● Password must correspond to programming § 1.F.2</td>
</tr>
<tr>
<td>● Page streaming address of the cameras</td>
</tr>
<tr>
<td>● Type type of cameras</td>
</tr>
</tbody>
</table>

1.G.6  UPLOADING OF PROGRAMMING TO TSP7000
To upload programming to the TSP7000, click on the opposite icon (arrow right key). See § 5.4.8.

Wait until uploading has been completed and the stand-by screen is viewed on the console. See § 5.4.10.
1.H VIDEOALARM SETUP

1.H.1 CAMERA INITIALIZATION
The camera must be initiated to function correctly. Enter the installer code on the TSP7000 video console, then touch VIDEOALARM Setup. See § 5.5. Wait until the initialization has been completed then verify all the cameras have been initiated correctly.

1.H.2 SYSTEM FUNCTIONING CHECK
Check if the system functioning (control panel + TSP7000) is coherent with programming and if all cameras are found.
2. SYSTEM

2.1 DESCRIPTION

The Videoalarm integrated video system is both a complete alarm and a videosurveillance system integrating anti-intrusion functions with viewing of max. 24 cameras. The heart of the system is the TSP7000 video console with 7 inches touch screen which permits the management of the system (arming/disarming of programs, viewing of the status zones, activation/deactivation of remote controls), a series of videosurveillance functions (viewing of video stream recorded by 1 to 4 cameras), a biometric fingerprint reader being able to replace access code typing. When the control panel is armed or in stand-by (according to programming) it is also possible to view the video streams of 1 to 4 cameras. If an event is detected, a photo sequence is logged, in addition it is possible to pop-up the video stream of the camera in question in order to immediately show the event.

2.2 COMPOSITION

The integrated video system is composed of:

- Control panel
- Cameras
- Programming interfaces
- 10-100 Ethernet switch
- UTP Cat 5 Ethernet cables
- Tecnoalarm software
- Software license
- Camera configuration software
- PC

The integrated video system is both a complete alarm and a videosurveillance system integrating anti-intrusion functions with viewing of max. 24 cameras. The heart of the system is the TSP7000 video console with 7 inches touch screen which permits the management of the system (arming/disarming of programs, viewing of the status zones, activation/deactivation of remote controls), a series of videosurveillance functions (viewing of video stream recorded by 1 to 4 cameras), a biometric fingerprint reader being able to replace access code typing. When the control panel is armed or in stand-by (according to programming) it is also possible to view the video streams of 1 to 4 cameras. If an event is detected, a photo sequence is logged, in addition it is possible to pop-up the video stream of the camera in question in order to immediately show the event.

2.3 LAN (ETHERNET) NETWORK

The control panel is connected to the cameras and to the console through the local area network (LAN) by using a UTP Cat 5 network cable. The length for each cable must be less than 100 meters. Each device connected via LAN network must be identified by a unique code (IP address).
2.4 SWITCH

The network devices are connected between each other through a switch permitting the management of the informations traffic between all the devices. The switch are easily available as they are used for all PC network connections. Different types of switches are available according to the communication speed on the network (10-100MBps or the newest and the most performing models 10-100-1000MBps) and the number of inputs, i.e. devices which be connected simultaneously (4, 5, 8, 16, 32 etc).

For the TSP7000 connection with the cameras, it is necessary to use one or more switches according to the number of devices which must be connected on the network. The TP8-96 VIDEO control panel, which is equipped by an internal switch with 8 ports (10-100MBps), permits the direct connection of 8 devices. If necessary, it is possible to extend the network by connecting one or more external switches to one of the inputs of the internal switch of the TP8-96 VIDEO control panel.

2.5 IP ADDRESS ASSIGNMENT

Each device must be programmed in order to be identified by the system. For this reason, in order to avoid all kind of confusion or bad interpretation of the messages, it is important that two devices never have the same address. Program the devices connected on the network with the addresses from the below list in order to simplify installation:

- PC 192.168.95.10
- TP8-96 VIDEO 192.168.95.150
- TP16-512 GSM 192.168.95.150
- TP16-256 192.168.95.151
- TP8-64 BUS 192.168.95.151
- TSP7000 192.168.95.151
- Camera 1 192.168.95.161
- Camera 2 192.168.95.162
- Camera 3 192.168.95.163
- Camera 4 192.168.95.164
- Camera 5 192.168.95.165
- Camera 6 192.168.95.166

and so on until the last camera (max. 24).

**WARNING**

In order to permit the correct functioning of the system, respect the above addresses and never use the same IP address twice, exception made for the connection of TSP7000 to TP8-64 BUS/TP16-256 where the address **must** be the same.
2.6 EXAMPLES OF CONNECTION

2.6.1 TP8-96 VIDEO + TSP7000 + CAMERAS
2.6.2 TP16-256 + TSP7000 + TSP LINK
3. CONNECTION

3.1 TP16-256 - TSP7000 - CAMERAS
3.2 TP16-256 - TSP7000
3.3 TP8-96 VIDEO - TSP7000 - CAMERAS
3.3.1 JUMPER SETTINGS ON THE CPU BOARD

**WARNING**
For power supply of the cameras through the corresponding terminals, i.e. PWR1 (terminals 32 and 33), PWR2 (terminals 34 and 35) and PWR3 (terminals 36 and 37), insert the J3, J4 and J5 jumpers as indicated in the above image (close the two pins on the left).
The PWR4 output (terminals 38 and 39) is always present.
3.4 TP8-96 VIDEO - TSP7000 - CAMERAS - SPLITTER

TEC2000 no 1
IP: 192.168.95.161

TEC2000 no 2
IP: 192.168.95.162

TEC2000 no 3
IP: 192.168.95.163

TEC2000 no 4
IP: 192.168.95.164

CONTROL PANEL
TP8-96 VIDEO
IP ADDRESS:
192.168.95.150

PC - IP ADDRESS: 192.168.95.19

TSP7000
LAN CABLE

IP ADDRESS: 192.168.95.151
3.4.1 JUMPER SETTINGS ON THE CPU BOARD

**WARNING**

Power supply of the cameras can be supplied via Ethernet network using the appropriate devices, i.e. splitter. In this case, it is not necessary to connect the power supply cables of the cameras to the corresponding control panel terminals. For direct power supply through Ethernet cable, simply insert the J3, J4 and J5 jumper as indicated in the above image (close the two pins on the right).
3.5 CAMERAS - CLOSURE OF THE DIGITAL INPUT TOWARDS THE EARTH

3.5.1 TEC2000 CAMERA

I/O TERMINALS
1. Power supply
2. Digital output
3. Digital input
4. Earth (GND)

WARNING
The camera must be programmed in a way that it record the photos if an event is detected. In addition, the terminals 3 and 4 (see terminals on the rear side of the camera) must be jumpered.

3.5.2 IP7330 CAMERA

I/O TERMINALS
1. 24V AC power supply
2. 24V AC power supply
3. Digital input
4. Earth (GND)
3.5.3 IP7142 CAMERA

I/O TERMINALS 1
1. Not connected
2. RS485 - B
3. RS485 - A
4. 24V AC power supply
5. 24V AC power supply

BORNIER I/O 2
1. 12V power supply
2. Digital output
3. Digital input
4. Earth (GND)

Jumper between DI and GND terminals

3.5.4 FD7131 CAMERA

I/O TERMINALS
1. Power
2. Digital output
3. Digital input
4. Earth (GND)

Jumper DI and GND terminals

3.5.5 VS7100 VIDEO SERVER

I/O TERMINALS
1. Power
2. Earth (GND)
3. Digital input
4. Digital output
5. RS485 - B
6. RS485 - A

Jumper DI and GND terminals
4. PROGRAMMING OF THE CONTROL PANEL

4.1 CONNECTION OF THE PC TO THE CONTROL PANEL

TP16-256 CONNECTION
- Connect the USB port of the PC to the USB connector of the PROG USB interface
- Connect the TTL connector of the PROG USB interface to the corresponding connector (PROGR. INTERFACE) of the CPU board of the control panel

TP8-96 VIDEO CONNECTION
- Connect the USB port of the PC to the USB connector of the control panel CPU board.
4.1.1 CONNECTION OF THE CONTROL PANEL WITH PROG USB (TP16-256 - TP8-64 BUS)

**USB PORT ASSIGNMENT BY SOFTWARE**

Click on the beside icon to start the Tecnoalarm software. After having entered the password (default 4321), on the screen is viewed:

Click on the beside software configuration icon and select the **Local prog. - Port** table.
Enable the Local programming and Use PROG USB items, then click on find PROG USB as indicated by the beside image.

Once the search has been completed, on the screen is viewed the beside image. Click OK twice to confirm and close the software configuration tables. Enter again the password to confirm and restart the software.

4.1.2 DIRECT CONTROL PANEL CONNECTION BY USB (TP8-96VIDEO - TP16-512 GSM)

Connect the USB cable to the control panel then to the PC.
Check the virtual port number created by the system (COM).
Select Start
Select Control panel
Select System
Select Hardware
Select Device manager
Select Port (COM and LTP)
Once the Tecnoalarm USB Driver has been installed correctly, on the screen is viewed the beside image:

Check the number of the COM serial port which is assigned to the USB port used.

WARNING
Each time a USB port of the PC is used, it is possible that the operating system assigns a different COM port. Always check the assigned port before continuing programming.
USB PORT ASSIGNMENT BY SOFTWARE
Click on the beside icon to start the Tecnoalarm software. After having entered the password (default 4321), on the screen is viewed:

Click on the beside software configuration icon and select the Local prog. - Port table.

Enable the Local progr. item and select the COM port found in Device manager and disable the Use PROG USB function. Click OK twice to confirm and close the software configuration tables. Enter again the password to confirm and restart the software.
4.2 CREATION OF A NEW SYSTEM IN THE USER ARCHIVE OF THE SOFTWARE

Click on the beside icon to open the user archive. On the screen is viewed:

Enter a new record (user) by clicking on the beside icon. On the screen is viewed:

Insert the data of the system (ID, name, address, installer code, control panel, TSP7000 etc.) and save.
4.3 CHECK FIRMWARE VERSION

Enter the local programming environment by clicking on the beside icon to verify the firmware version.

**WARNING**
Verify that the connection between the PC and the control panel is active. If the connection between the devices is correct and the communication has been established, the arrow of the connection symbol (viewed in the lower right hand part of the screen) is green with a red dot running from the left to the right and back. If the arrow is white, the communication is interrupted.

Click on the Firmware icon. On the screen is viewed:

Check if the version is correct:
- TP16-256 FW 3.0 or following
- TP16-512 GSM FW 0.5.14 or following
- TP8-96 VIDEO FW 0.5.14 or following
- TP8-64 BUS FW 2.0 or following
4.4 PROGRAMMING

4.4.1 IP ADDRESS PROGRAMMING BY TECNOALARM SOFTWARE

Once programming has been completed, it is necessary to program the control panel IP address.

Assign the IP address to the control panel
- TP8-64 BUS and TP16-256
  The IP address must be the same as that programmed on the TSP7000 console:
  192.168.95.151
- TP8-96 VIDEO and TP16-512 GSM
  The IP address must be:
  192.168.95.150
- Save the programmed value

WARNING
Use the control panel manual as reference.
4.4.2 IP ADDRESS PROGRAMMING BY LCD CONSOLE

It is possible to program the IP address using the LCD300/S console or the virtual console of the programming software if the TP8-96 VIDEO or TP16-512 GSM control panel is used.

Enter the installer code (default 54321).

+ 54321 yw to select the Ethernet menu
+ # YES to confirm

+ 54321 yw to select the IP address menu
+ # YES to confirm

++ + enter the value 192.168.95.150
+ MEM to insert a point between the numbers (it is viewed as a hyphen).
+ # YES to confirm

+ 54321 yw to select the Subnet Mask menu
+ # YES to confirm

++ + enter the value 255.255.255.0
+ MEM to insert a point between the numbers (it is viewed as a hyphen).
+ # YES to confirm
4.4.3 CHECK IP ADDRESS PROGRAMMING

Return to control panel programming. Click on the beside icon to enter the telephone tables and select the Ethernet window. On the screen is viewed:

**CHECK THE CONFIGURATION**

For a correct functioning of the system, the following items and values must be programmed:
- **IP address**: IP address of the control panel
  - 192.168.95.150
  - TP8-96 VIDEO
  - TP8-64 BUS
- **Subnet mask**: 255.255.255.0
- **Gateway**: No setting
- **LOCAL SERVER TECNOALARM - Port**: 10000
- **REMOTE SERVER TECNOALARM - Port**: 10001
- **TECNOSERVER TECNOALARM - Port**: 10001 (Alarm Port) 10001 (Callback Port) 10004 (TSP7000 Port)
4.4.4 CONFIGURATION SAVING
Save the system configuration (ex. ID 0011 - Tucker) in the user archive on the hard disk of the PC by clicking on the beside icon (arrow right key).

Commands available
- Yes to confirm saving
- No to quit without saving

The configuration will be saved as TP96V0011.TCN.

4.4.5 UPLOAD (SEND) CONFIGURATION TO THE CONTROL PANEL
To upload configuration to the control panel, click on the beside icon (arrow right key) as indicated.

On the screen is viewed the configuration upload window.

Commands available
- Start uploading
  - Upload of the complete system configuration
- Start uploading (changes only)
  - Upload of changes (only if a complete system configuration has been sent to the control panel before by the same PC)

First programming
If the control panel is new, during first programming, a warning appears on the screen signaling that the control panel has the ID code FFFF (unprogrammed).

Commands available
- Yes to confirm and proceed
- No to abandon

Send ID code
If you confirm, a warning appears on the screen signaling that upon completion of upload it is possible to send the control panel ID code.

Commands available
- Yes to confirm and proceed
- No to abandon

Send codes/keys
If you confirm, a warning asking whether you wish to upload the codes and keys is viewed on the screen.

Commands available
- Yes to confirm and upload codes/keys
- No to deny and upload without codes/keys
Reset test call timer
A warning appears on the screen asking whether you wish to synchronize the test call timer with the current date and time.

Commands available
- Yes to confirm and reset test call timer
- No to deny and upload without resetting test call timer

On the screen the progress of uploading is viewed.
If need be, press the Stop key to interrupt the process.

Once uploading of system configuration has been completed successfully, the control panel is ready to work according to the programmed parameters.

4.4.6 INDICATORS OF COHERENCE SYSTEM CONFIGURATION
In the local programming environment, on the screen is always viewed the coherence of system configuration with the help of 4 colored indicators:
- Same color = same version
- Different color = different version

1 Indicator of the local programming window (i.e. system configuration viewed on the screen).
2 Indicator of the user archive (configuration saved on the hard disk of the PC).
3 Indicator of the external storage device (configuration saved on external memory, e.g. floppy, USB key).
4 Indicator of the control panel connected.

4.4.7 VERIFICATION OF THE CONTROL PANEL FUNCTIONING
WARNING
After uploading system configuration, verify that the control panel works according to programming before to proceeding with the TSP7000 console programming.
4.5 TSP LINK PROTOCOL PROGRAMMING

To permit the connection of the TSP7000 and the TP16-256 or TP8-64 BUS, with an LCD300/S console or with the virtual console of the Tecnoalarm software, it is necessary to select the TSP LINK communication protocol.

Enter the master code (default 12345).

- Access - Menu

- Access - Master

Menu Options 20

Options Protocol

Protocol TSP LINK 6

<table>
<thead>
<tr>
<th>- ACCESS - Master</th>
</tr>
</thead>
<tbody>
<tr>
<td>- ACCESS - Menu</td>
</tr>
</tbody>
</table>

Menu Options 20

Options Protocol

Protocol TSP LINK 6
4.6 PC CONNECTION TO THE ETHERNET NETWORK

TP16-256 CONNECTION
Once control panel programming has been completed, proceed as follows:
- Connect the PROG USB interface
- Connect an UTP Cat5 network cable to the Ethernet port of the PC and to the switch
- Connect an UTP Cat5 network cable to the Ethernet port of the TSP7000 video console and to the switch
- Connect a 6-wires cable to the TSP7000 video console and the corresponding connector of the TSP LINK interface
- Connect a TTL cable to the TSP LINK interface and to the corresponding connector of the control panel CPU board
TP8-96 VIDEO CONNECTION
Once control panel programming has been completed, proceed as follow:
- Connect a USB cable to the PC and to the control panel
- Connect the PROG USB interface
- Connect an UTP Cat5 network cable to the Ethernet port of the PC and to the port 7 or 8 of the on-board Ethernet switch of the TP8-96 VIDEO control panel
4.7 VERIFICATION OF THE CONTROL PANEL
COMMUNICATION VIA ETHERNET NETWORK

Once the control panel has been connected to the Ethernet network through an Ethernet switch, check if the communication on network is active.

Click on the beside icon to enter the local programming environment.

On the screen is viewed the beside image.

Click on the icon corresponding to the Ethernet connection as indicated by the arrow.

On the screen is viewed:

Check if the communication between the Tecnoalarm software and the control panel is active with the help of the arrow in the lower right hand corner of the screen. It must be green colored.

Green arrow = communication active
White arrow = communication missing

COMMUNICATION ACTIVE
The green arrow indicates that the programmed type of control panel, IP address, ID code and installer code both on the PC and on the control panel correspond.

COMMUNICATION MISSING
Verify thoroughly the programmed parameters (type of control panel, IP address, ID code, installer code) and the Ethernet connection (connection cables and Ethernet switch) because the communication between devices is missing.
5. PROGRAMMING OF THE TSP7000

5.1 TSP7000 CONNECTION

If the TP8-64 BUS or TP16-256 control panel is used, connect the TSP7000 video console to the switch (using a network cable) and to the control panel through the TSP LINK.

If the TP8-96 VIDEO or TP16-512 GSM control panel is used, connect the TSP7000 video console directly to the terminals of the control panel.

The console is initiated as soon as the power supply is connected (the beside image is viewed).

Once the console has been initiated (which may require a few minutes), on the screen is viewed the keypad screen for programming of the IP address.

5.2 IP ADDRESS

Program the IP address of the TSP7000.

- Enter the default IP address 192.168.95.151
- Touch Enter to confirm

Wait for start up of the console.

On the screen is viewed the beside image.

The TSP7000 is connected and is waiting for programming by PC.
5.3 USER FILE CONFIGURATION

PROCEDURES
Start the Tecnoalarm software and click on the beside icon to enter the user archive. On the screen is viewed:

USER ARCHIVE MODIFICATION
After selecting the installation (marked in blue), click on the beside icon to modify the user file. On the screen is viewed:
Select TSP7000 as IP device.

**PROGRAMMING THE TSP7000 IP ADDRESS**
- Enter the IP address corresponding to that one of the TSP7000 video console: 192.168.95.151. See § 5.2
- Enter the port to use:
  - The 10001 port cannot be changed except if another device uses this port and cannot be moved to another port.
- The IP address of the WAN section cannot be programmed.
- The port of the WAN section must remain 10001.
- The IP address of the TP8-96 VIDEO or TP16-512 GSM must correspond to the one programmed on the control panel (default programming 192.168.95.150).
- The IP address of the TP16-256 or TP8-64 BUS must correspond to the one programmed on the control panel and the TSP7000 (default programming 192.168.95.151).
5.4 LOCAL PROGRAMMING

Click on the beside icon to enter the local programming environment.

On the screen is viewed:

Select the system and click on the TSP7000 icon to enter video console programming.

On the screen is viewed:

5.4.1 CONFIGURATION
Click on the beside icon to enter parameters Configuration tables of the TSP7000 video console.
On the screen is viewed:

The configuration tables permit:
- Configuration of the general TSP7000 parameters
- Monitoring and configuration of the cameras controlled by the video console
- Association of the zones of the control panel to the cameras programming of functioning
- Definition of the functions associated to each code of the control panel
- Definition of the video console functioning in the stand-by mode (i.e. stand-by screen in standby and principal commands).

**TSP7000**
- Language
  - The language for written and for general voice messages.
  - Languages available: italiano (male voice), français, english, español, italiana (female voice).
- IP address
  - IP address of the console.

**CONTROL PANEL**
The parameters of the selected control panel are viewed:
- Control panel
  - Type of control panel connected to the TSP7000:
    - TP16-256, TP8-64 BUS, TP16-512 GSM and TP8-96 VIDEO.
- Connect
  - Type of connection between PC and video console:
    - TSP LINK or TCP/IP.
- IP address
  - IP address of the control panel
- Enable TSP7000 tamper
  - The option is enabled when the item is checked.
  - In this case, the tamper contact of the console is controlled.
- Enable connection check
  - The option is enabled when the item is checked.
  - In this case, the connection between the video console and the control panel is constantly controlled.
5.4.2 IP CAMERAS

Open the configuration tables and select the IP Cam table.
On the screen is viewed:

![Configuration Table](image)

**WARNING**
The installation comprises by default 4 TEC2000 IP cameras.
The cameras are configured according to the necessary parameters for a correct functioning with the TSP7000.
Remove the cameras which are not present in the installation or add those missing.
Define the IP address of each camera.
The IP address of each camera must be that of the list displayed.
Assign the IP address using the "Installation Wizard 2" software provided with the Tecnoalarm cameras. The other parameters are automatically programmed by software.

Clicking on the desired position to program an IP camera connected to the system.
Clicking on the position 1, on the screen is viewed:

![Camera Settings](image)
5.4.2.1 PARAMETER CONFIGURATION
The cameras are pre-programmed according to the data viewed in the previous image.

- **Description**: Name assigned to the camera (viewed on the photos/video stream)
- **IP**: IP address of the camera.
  By default, the following addresses are already programmed:
  - camera 1: 192.168.95.161
  - camera 2: 192.168.95.162
  - camera 3: 192.168.95.163
  - camera 4: 192.168.95.164
- **User**: User name for the access to the cameras (must be root)
- **Password**: Password for the access to the cameras
- **Page**: Description for the access to the RTSP video stream
- **Type**: Type of the camera
  By default, Tecnoalarm TEC2000.
- **Voice synthesis**: Vocal message to be associated to the selected camera. Select 6 words from the vocabulary

5.4.2.2 CAMERA CONFIGURATION WITH "INSTALLATION WIZARD 2" SOFTWARE
All the IP cameras connected to the system must have the IP address of the above list (§ 5.4.2.1).
Program the cameras with the **Installation wizard 2** software (included into the cameras packaging) previously installed on the PC where the Tecnoalarm software is installed too.

5.4.3 ZONE-IP CAMERA ASSOCIATION
Open the configuration tables and select the **Zone association-IP cameras** table.
On the screen is viewed:

![Configuration Table](image-url)
ZONE-CAMERA ASSOCIATION + ACTIONS

This table permits the association between the zones of control panel and the installed cameras. Once the association has been defined (e.g. zone 1 called contact zone and the camera 1 called camera 1), it is possible to define the action.

**Functions available**

- **Control panel in stand-by - Open zones**
  - For open zone see camera
    - For opening of the zone, the video stream of the selected camera is viewed in total screen mode.
  - For zone alarm see camera
    - For opening of the zone, the selected camera sends a sequence of photos (8) to the TSP7000 memory.
    - The images will be displayed simultaneously and they can be opened once at time or enlarged.

- **Control panel armed - Zone alarm**
  - For open zone send "snapshot" command to the camera
    - For opening of the zone with control panel armed (i.e. alarm condition), the video stream of the selected camera is viewed in total screen mode.
  - For zone alarm end "snapshot" command to the camera
    - For opening of the zone with control panel arming (i.e. alarm condition), the camera sends a sequence of photos (8) to the TSP7000 memory.
    - The images will be displayed simultaneously and they can be opened once at time or enlarged.

**WARNING**

It is recommended to activate one option only for each zone-camera association.

Once the association has been completed, on the screen is viewed:
5.4.4 ACCESS
Open the configuration table and select the Access window. On the screen is viewed:

The Access table permits to program the functions executed by each access code. A disabled code cannot execute any operation on the TSP7000.

**ACCESS**
Permits to select the code between those present in the archive (the codes are loaded from by the control panel). For each code it is possible to create a list of accessible commands (see main menu).

**MAIN MENU**
Permits the main menu configuration. A disabled function is not displayed, therefore the owner of the code cannot enter the selected submenu.

**Functions available**
- Programs
  Permits arming/disarming and verification of the status of the programs associated to the code
- Remote controls
  Permits activation/deactivation and verification of the status of the remote controls associated to the code
- Event log
  - All the control panel's events
    Permits viewing of all the events detected by the control panel. Check the item to enable the function.
  - Viewing of snapshots-events
    Permits viewing of the photos associated to the events. Check the item to enable the function.
• Zones
  Permits viewing of the status of the zones of the control panel and voluntary inclusion/exclusion of the zones.
  • Exclusion zone
    Permits the voluntary exclusion of the zones. Check the item to enable the function.
  • Inclusion zone
    Permits the voluntary inclusion of the zones. Check the item to enable the function.

• Cameras
  Viewing of the cameras associated to the codes.
  • PTZ enabling
    Permits enabling of the movement of the motorized cameras. Check the item to enable the function.
  • VIDEOALARM setup
    Permits the initialization of the cameras produced by Tecnoalarm. Check the item to enable the function.

• Setup
  • USB pendrive management
    Permits copying the registered photos into a USB memory. Check the item to enable the function.
  • SD card management
    Permits the management of the internal SD memory (deletion of the photos). Check the item to enable the function.
  • TV output
    Permits enabling of the TV output for viewing of the video streams on an external monitor. Check the item to enable the function.

• Finger prints
  Permits the management of the finger prints (biometric reader).

5.4.5 STAND-BYSCREEN
Open the configuration tables and select the Standby table. On the screen is viewed:

The stand-by configuration table permits programming of the components of the TSP7000 stand-by screen.
The stand-by is the condition when no user code is composed.
Functions available

- Biometric module
  Permits enabling of the biometric module (finger prints reader).
- TV output
  Permits enabling of the audio video output for an external monitor (off, PAL, NTCS).
- Enabling loudspeaker
  Permits enabling of the loudspeaker for acoustic signalling. Check the item to enable the function.
- Voice synthesis
  Permits enabling of the multilanguage voice messages. Check the item to enable the function.
- Key sound
  Permits the selection of the keystroke sound (ex. press03.vaw).
- Display wakeup function
  If the function is enabled, display back lighting is switched on every time the infrared detector (PIR) detects the presence of a human being and is automatically switched off after some time of non-activity. Check the item to enable the function.
- Reduce brightness (min)
  Programming of timer after then the display brightness is reduced (5, 10..minutes).
  The brightness is the maximum upon touching of the display. Check the item to enable the function.
- Access to individual cameras
  Permits viewing of the photos registered by a selected single camera in the total screen mode.
  Check the item to enable the function.
- Standby code
  The stand-by code is a user code reserved to a determined TSP7000 console. It is programmable as all the other user codes (programs, attributes, access periods etc.).
  When a stand-by code is present in the system, it is possible to program 4 quick command links associated to 4 functions on the stand-by screen.

VIDEO STREAM VIEWING

In stand-by the console can show the video streams of 4 cameras selected among those programmed.
The TSP7000 can manage the video streams of a total of 24 cameras.
If less than 4 cameras are selected the stand-by screen is adapted.

Click on the arrow and select the camera from the list.
STAND-BY CODE
When the standby code has been selected, it is possible to program 4 quick command links associated to 4 functions which will be viewed on the stand-by screen of the console.

The stand-by code is automatically added to the registered event in the event memory of the console.

Click on the arrow and select the function from the list:
- Arming/disarming of program
- Activation/deactivation of remote control
- Viewing of zone status
- Viewing of camera
- Viewing of 4 cameras starting from
- Arming program
- Disarming program
- Activation of by-pass program
- Deactivation of by-pass program
- Activate remote control
- Deactivate remote control
- By-pass ON-Off

VARIABLES
Functions available
- Clock
  Viewing of the clock (date-time, digital, time hh:mm or crt time hh mm) mode available in a several formats.
  Click on the arrow and select the format from the list.
- Volume setting
  Check the item to enable the function.
- Brightness setting
  Check the item to enable the function.
- Access by console
  Access to the system by console (console function).
  Check the item to enable the function.
- Temperature
  Viewing of the temperature (digital....) available in a several formats. Click on the arrow and select the wished format.

POP-UP WINDOWS

It is possible to program 4 types of pop-up windows which appear on the stand-by screen upon the detection of an event:
Camera-open zone
Upon opening of a zone or beginning of the zone alarm, the selected camera is activated for the programmed period of time (5, 10, 20 seconds).

New snapshot
Upon opening of a zone or beginning of the zone alarm, a sequence of 8 photos is recorded. The photos are displayed during the programmed period of time.

Alarm
Upon detection of an alarm, the page of prealarm/entry time is displayed.

Entry time (prealarm)
In case of prealarm, on the screen is viewed a pop-up window with a prealarm warning.

Timeout
Permits programming of the period of time in seconds.

Sound alarm
All of the pop-up windows can be accompanied by the individually programmable sound signal. This signaling is repeated during the programmed timeout.

---

**WARNING**
For simplicity reasons, it is recommended to activate only one function at a time. If more functions are selected at the same time, the procedures overlap and functioning of the console may result confusing. The video streams which are not viewed because they coincide with another event, will however be saved in the event memory.
5.4.6 CONFIGURATION SAVING
To save the TSP7000 programming (e.g. ID 0011 - Tucker) on the hard disk, click on the beside icon (arrow right key).

Commands available
- Yes to confirm saving
- No to quit without saving

The configuration will be saved as TP96V0011.TCN.

5.4.7 CONNECTION CHECK
Verify that the communication between the Tecnoalarm software and the TSP7000 is active with the help of the arrow in the lower right hand corner of the screen.

- Green arrow = communication OK
- White arrow = communication missing

COMMUNICATION OK
The arrow is green when the programmed IP address on the PC and on the console correspond.

COMMUNICATION MISSING
Check thoroughly the programmed IP address and the Ethernet connection (connection cables and Ethernet switch) because the communication between the two devices is missing.

5.4.8 UPLOAD (SEND) CONFIGURATION TO THE CONSOLE
To upload the configuration to the console, click on the beside icon (arrow right key) as indicated.

On the screen is viewed the configuration upload window.

Commands available
- Start uploading: Upload of the complete system configuration.
- Start uploading (changes only): Upload of the changes (only if system configuration has been sent to the control panel before using the same PC).

On the screen the progress of uploading is viewed.

If need be, press Stop to interrupt the process. Once uploading of system configuration has been completed successfully, the TSP7000 video console is ready to work according to the programmed parameters.

WARNING
Once programming has been sent, wait for the restart of the TSP7000 console.
5.4.9 INDICATORS OF COHERENCE OF SYSTEM CONFIGURATION

In the local programming environment, on the screen is always viewed the coherence of system configuration with the help of 4 colored indicators:

- Same color = same version
- Different color = different version

1. Indicator of the local programming window (i.e. system configuration viewed on the screen).

2. Indicator of the user archive (configuration saved on the hard disk of the PC).

3. Indicator of the external storage device (configuration saved on external memory, i.e. floppy, USB pendrive).

4. Indicator of the control panel connected.

5.4.10 FUNCTIONING CHECK

Once programming has been uploaded successfully, the TSP7000 console restarts. After a few minutes, the stand-by screen is viewed (beside image).
5.5 VIDEOALARM SETUP

The cameras must be initiated to function correctly. Touch VIDEOALARM Setup to enter the cameras programming environment. Touch Proceed to search for the cameras connected to the network of the TSP7000 video console. Once the search has been completed, on the screen is viewed the beside image.

The system searches all of 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 as many cameras have been detected. If a camera is not connected or not found, the message viewed is found 3 of 4.

5.5.1 INITIALIZATION OF THE CAMERAS

Touch Proceed to start the initialization of the detected cameras. On the screen is viewed the beside image.

The system restores the configuration for functioning with the TSP7000 consoles. All the procedure is viewed in sequence.

Once initialization has been completed successfully, on the screen is viewed the beside image. The cameras are ready to work.
6. CONSOLE

6.1 FRONT VIEW
6.2 REAR SIDE

- LAN NETWORK CONNECTOR (Ethernet)
- 6-WIRES CONNECTOR POWER SUPPLY +TSP LINK SIGNALING
- COAXIAL CONNECTORS AUDIO (RED) VIDEO (BLACK) for EXTERNAL MONITOR
- FULL SPEED USB 2.0 INPUT
6.2.1 CONNECTION WITH TP8-96 VIDEO

**Configuration A**  
Power supply + signaling via Ethernet cable  
6-wires terminal not connected  
Program the TP8-96 VIDEO control panel in order to provide the power supply through the Ethernet connectors.  
The 6-wires cable is not necessary:  
- Jumper J3 in position 2-3 - TSP7000 connected to the Ethernet ports 1 or 2  
- Jumper J4 in position 2-3 - TSP7000 connected to the Ethernet ports 3 or 4  
- Jumper J5 in position 2-3 - TSP7000 connected to the Ethernet ports 5 or 6

**Configuration B**  
Signaling via Ethernet cable  
6-wires terminal - Only +/-VCC wires connected  
Disable the power supply through the Ethernet connectors on the TP8-96 VIDEO control panel.  
On the 6-wires terminal, the +/- VCC cable must be connected to a control panel 13.8V power supply.  
- Jumper J3 in position 1-2 - TSP7000 connected to the Ethernet ports 1 or 2  
- Jumper J4 in position 1-2 - TSP7000 connected to the Ethernet ports 3 or 4  
- Jumper J5 in position 1-2 - TSP7000 connected to the Ethernet ports 5 or 6  
- TSP7000 console connected to the Ethernet ports 7 or 8
6.2.2 CONNECTION WITH TP16-256 AND TP8-64 BUS
For connection with the TP16-256 and TP8-64 BUS control panels, use the TSP LINK interface.
APPENDIX A
SPECIAL PROCEDURES
A. SPECIAL PROCEDURES

A.1 IP ADDRESS MODIFICATION

A.1.1 MODIFICATION OF THE IP ADDRESS OF THE PC

- Select Start
- Select Control panel
- Select Network and Internet connection
- Select Local area connection (LAN) (right click)
- Select Properties
- Select Internet Protocol (TCP/IP)
- Select Properties
- Select Utilizza il seguente indirizzo IP (Use the following IP address)

![Selecting the Properties of the PC's network connection](Image)

- Enter the "Indirizzo Ip" (IP address): 192.168.95.10
- Enter the "Subnet Mask": 255.255.255.0
- Click OK twice to confirm and quit

The new IP address of the PC is 192.168.95.10

**WARNING**
When the PC is connected to a company network, before changing the IP address, always check with the network administrator possible limitations and prohibited addresses.
A.1.2 WINDOWS VISTA
- Select Start
- Select Control panel
- Select Computer
- Select Network
- Select Network and Sharing Center
- Select Manage Network Connections
- Select the connection (right click)
- Select Properties
- Select Continue (user authorization)
- Select Internet protocol vers. 4 (TCP/IPv4)
- Select Properties
- Select Utilizza il seguente indirizzo IP (Use the following IP address)
- Enter the “Indirizzo Ip” (IP address): 192.168.95.10
- Enter the “Subnet Mask”: 255.255.255.0
- Click OK twice to confirm and quit
The new IP address of the PC is 192.168.95.10

A.1.3 WINDOWS 7
- Select Start
- Select Control panel
- Select Show network status and activity (network category and Internet)
- Select Local area connection (LAN)
- Select Properties
- Select Internet protocol vers. 4 (TCP/IPv4)
- Select Properties
- Select Utilizza il seguente indirizzo IP (Use the following IP address)
- Enter the “Indirizzo Ip” (IP address): 192.168.95.10
- Enter the “Subnet Mask”: 255.255.255.0
- Click OK twice to confirm and quit
The new IP address of the PC is 192.168.95.10
A.2 RESET OF THE CONTROL PANEL

A.2.1 TP16-256 CONTROL PANEL

When the control panel is in stand-by (date and time viewed), to reset the default configuration, proceed as follows:

1. Remove the jumper JP1
2. Insert the jumper JP6
3. Wait until Line Absent is viewed
4. Remove the jumper JP6
5. After a few seconds, when Tecnoalarm is displayed, press *NO (star) several times
   On the display is viewed Config. Deleted.
   After a few seconds, the control panel returns to stand-by and on the display reappears date and time signaling.

A.2.2 TP8-64 BUS CONTROL PANEL

When the control panel is in stand-by (date and time viewed), to reset the default configuration, proceed as follows:

1. Insert the jumper RESET
2. Wait until Line Absent is viewed
3. Remove the jumper RESET
4. After a few seconds, when Tecnoalarm is displayed, press *NO (star) several times
   On the display is viewed Config. Deleted.
5. After a few seconds, the control panel returns to stand-by and on the display reappears date and time signaling.

WARNING
Upon reset, the control panel is set with the default configuration and with the following default codes:

- Default installer code: 54321
- Default master code: 12345
- User codes: 00000 (no valid code)
- Default code length: 5 digits
A.2.3 TP8-96 VIDEO CONTROL PANEL
When the control panel is in stand-by (date and time viewed), to reset the default configuration, proceed as follows:
- Remove the jumper JP9-CLR
- Insert the jumper JP3-RESET for a few seconds
- Wait until Line Absent is viewed
- Remove the jumper JP3-RESET
- After a few seconds, when Tecnoalarm is displayed, press "NO (star) several times
  On the display is viewed Config. Deleted.
- Insert again the jumper JP9-CLR.
  After a few seconds, the control panel returns to stand-by and on the display reappears date and time signaling.

A.2.4 TP16-512 GSM CONTROL PANEL
When the control panel is in stand-by (date and time viewed), to reset the default configuration, proceed as follows:
- Remove the jumper JP9-CLR
- Insert the jumper JP3-RESET for a few seconds
- Wait until Line Absent is viewed
- Remove the jumper JP3-RESET
- After a few seconds, when Tecnoalarm is displayed, press "NO (star) several times
  On the display is viewed Config. Deleted.
- Insert again the jumper JP9-CLR.
  After a few seconds, the control panel returns to stand-by and on the display reappears date and time signaling.

WARNING
Upon reset, the control panel is set with the default configuration and with the following default codes:
- Default installer code: 54321
- Default master code: 12345
- User codes: 00000 (no valid code)
- Default code length: 5 digits
A.3 RESET OF THE TEC2000 CAMERA

To reset the camera, press the reset key (insert a needle into the hole in the casing).

Continue to press the RESET key until the end of the second cycle.

Press and maintain pressed the RESET key. The blue and red LED are switched off and on again.

1° RESET
The blue and red LED blink twice. The blue and red LED are switched on again. Wait until the blue LED is off.

2° RESET
The red LED blinks some times. The blue and red LED blink twice. The blue and red LED are switched on again. Wait until the blue LED is off.

END OF RESET CYCLE
When the blue LED is switched off for the second time, the reset cycle is finished. Release the RESET.

The camera is reset with the default settings.

WARNING
Upon reset, the cameras are set with the default programming. Program a correct IP address and password using the Installation Wizard 2 software to use the cameras with the Tecnoalarm Video System.
A.4 CONFIGURATION OF THE TEC2000 CAMERAS BY THE "INSTALLATION WIZARD 2" SOFTWARE

Program the IP address using the "Installation Wizard 2" included into the cameras packaging. The software must be installed on the PC where the Tecnoalarm software is installed, too.

To install the "Installation Wizard 2" software, click on the above icon on the desktop of the PC.

On the screen is viewed:

Click **Next** to continue.

On the screen is viewed the above image. Click **OK** to continue.
On the screen is viewed:

The list shows all the TEC2000 IP cameras found on the network. For each camera, the automatically assigned IP address and the previously programmed MAC address (i.e., code which identifying each camera) is listed. The MAC address is indicated on a label on the rear side of each camera casing. Select the camera to be programmed (it will be marked in dark blue) then, click first on the beside icon to program the IP address and then on Manual Setup.
PROGRAMMING OF THE PASSWORD OF THE CAMERAS

On the screen is viewed the beside image. The password administrator is only requested if the camera has already been used and a password has been programmed. In that case, enter the password. But if the camera has been reset (see § A.3), no password is required. On the screen is viewed:

```
Always protect the access to the camera with a password.
Enter the password and repeat it to confirm. Click Next to continue.
On the screen is viewed the beside image. Click No.
On the screen is viewed:
```

```
Installation Wizard 2
Setup your device
```

```
Get IP from DHCP server automatically:
IP address: 192.168.0.100
Subnet mask: 255.255.255.0
Default gateway: 192.168.1.1
Primary DNS server:
Secondary DNS server:
```

```
Network Settings
Setup network configuration
```

```
System setup:
Hostname: cam1
Administrator:
User name:
Password: **********
Confirm password: **********
```

```
Network Type
Do you want to setup PPPoE for the device?
Yes  No
```

```
Connecting to the device 00.07.01.07.07.07
Please enter the administrator password:
User name: root
Password: 1
OK  Cancel
```

```
On the screen is viewed the beside image.
```

```
Always protect the access to the camera with a password.
Enter the password and repeat it to confirm. Click Next to continue.
On the screen is viewed the beside image. Click No.
On the screen is viewed:
```

```
Installation Wizard 2 - Integrated Video System
```

A-10
IP ADDRESS OF THE CONNECTED CAMERAS

The cameras must be programmed with a fixed IP address.

- **Automatic assignment by DHCP server**
  - Option enabled: The network automatically assigns an IP address to the camera. The address is automatically assigned by the DHCP server (Dynamic Host Configuration Protocol). The camera **cannot work** with the TSP7000 video console.
  - Option disabled: An IP address must be manually assigned to the camera. The camera **works** correctly with the TSP7000 video console.

- **IP address**
  - The following addresses must be programmed:
    - Camera 1: 192.168.95.161
    - Camera 2: 192.168.95.162
    - Camera 3: 192.168.95.163
    - Camera 4: 192.168.95.164

- **Subnet Mask**
  - Compulsory: 255.255.255.0

- **Preset gateway**
  - Compulsory: 192.168.95.1

- **DNS primary server**
  - Must not be filled in

- **Server DNS secondaire**
  - Must not be filled in

After having filling in the items, click **Next**. On the screen is viewed:

Click **No**. On the screen is viewed:

Click **Apply** to confirm the changes.
On the screen is viewed:

After filling in the items, click **Next**.

On the screen is viewed:

Click **Apply** to confirm the changes.
On the screen is viewed the beside image.

Wait until the end of device configuration when the beside image is displayed.
Click OK to confirm the changes.

On the screen is viewed:

Click Exit to close the window.
Both the IP address and the password have been correctly assigned to the first camera.

WARNING
Assign an IP address and a password to all the cameras of the system (repeat the procedures of § A.4 for each camera).
A.5 NON-TECNOALARM CAMERAS - PARAMETERS FOR STREAMING

The non-Tecnoalarm cameras connected to the TSP7000 video console can do streaming only if duly programmed by the installer with the below settings. The cameras not Tecnoalarm cannot never realise events photos.

### PARAMETERS FOR STREAMING

<table>
<thead>
<tr>
<th>Protocol</th>
<th>RTSP</th>
<th>Port</th>
<th>554</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication</td>
<td>Basic  or disabled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Image compression</td>
<td>MPEG-4 SP (simple profile)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. resolution</td>
<td>D1 (640x480 highly recommended)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horizontal resolution</td>
<td>768, 720, 704, 640, 480, 384, 352, 320, 240, 192, 176, 160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical resolution</td>
<td>576, 480, 360, 288, 240, 180, 144, 120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compression</td>
<td>30 recommended</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. frame rate</td>
<td>5fps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. bit rate</td>
<td>1000 Kbps (constant CBR or VBR limited)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(or peak bit rate)</td>
<td>(640Kbps recommended)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio</td>
<td>Disabled</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
A.6 RESET OF THE TSP7000 CONSOLE

WARNING
The configuration reset function permits to completely delete the TSP7000 video console programming and to format its memory. The console is stops functioning after reset. Upload the console configuration by PC to restart the console.

The reset is possible in two ways:
- with installer code
- without installer code

A.6.1 RESET WITH INSTALLER CODE
The TSP7000 console must be in stand-by. Touch the key icon. Enter the installer code (by default 54321). On the screen is viewed the beside image. Touch the Reset configuration icon.

On the screen is viewed the beside image.
Commands available
- YES to confirm configuration reset
- NO to quit

The deletion of the memory includes the deletion of all the registered photos.
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 of the IP address
- Programming upload
Permits to upload a new programming by PC
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.
- Enter the new IP address of the TSP7000 (default 192.168.95.151)
- Touch Enter
The TSP7000 video console restarts with the new IP address.

Before proceeding, wait until the console has been completely restarted and the beside image is viewed.

To send the new configuration to the TSP7000 console, in the Tecnoalarm software, in the user archive, select the corresponding user file, enter the IP address of the console and proceed following the indications supplied by the software.

If the communication between the software and the video console is active, the beside image is displayed. Wait until the reception has been completed.

A.6.2 RESET WITHOUT INSTALLER CODE
During reset and formatting of the memory without installer code, the TSP7000 console must be off (i.e. remove power supply or press the on/off button for minimum 30 seconds). Restart the TSP7000 console (i.e. give power supply or press the on/off button until initiation). The console restarts.
During initiation (which can require a few minutes), the hourglass icon is viewed in the center of the screen (beside image). Touch the hourglass icon.
On the screen is viewed the beside image. Touch **Yes** to confirm the reset of the TSP7000 video console.

**IP ADDRESS MODIFICATION**

On the screen is viewed the beside image.
- Enter the new IP address of the TSP7000
  - (default 192.168.95.151)
- Touch **Enter**

The TSP7000 video console restarts with the new IP address.

**WARNING**

For re-initiation, it is necessary to resend programming by PC.

Before proceeding, wait until the console has been completely restarted and the beside image is viewed.

In the user archive of the Tecnoalarm software, select the video console and upload programming.
- If the communication between the Tecnoalarm software and the video console is active, on the screen of the console is viewed the beside image.
- Wait until all the programming data has been received.
A.7 FIRMWARE UPGRADE

WARNING
Firmware upgrade can modify functioning of the console.
Once started, it is impossible to interrupt the procedure.
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 key 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 start the firmware upgrade 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 found at the following path 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 until the system is restarted with the new firmware version.

WARNING
Firmware upgrade modifies neither programming nor the IP address of the TSP7000 video console. However, it is recommended to verify programming and functioning after the upgrade.
INTEGRATED VIDEO SYSTEM INSTALLATION GUIDE