

Open Network Camera Installation Tool IT5000



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I. Introduction

The IT 5000 Installation Tool is a battery-powered handheld device that greatly simplifies the field installation of network and analog cameras. It connects directly to a camera or network to provide power, discover cameras, and display live video to adjust camera viewing angles and focus. The tool offers a user-friendly touch screen for zooming and programming functions. The IT 5000 is an "open" tool supporting multiple camera manufacturers.

I.I Features

- Supports multiple camera manufacturers
- Simplifies camera angle & focus adjustments
- Powers cameras with PoE (Power over Ethernet)
- Controls IP and analog PTZs
- Records snapshots and video clips
- Capable of field upgrades with new firmware

1.2 Package Contents (Need images and full list of products)

Ensure that the package contains the items listed below.









IP Camera Tester

Soft Silicone Gel Case

Li-ion Battery Pack

Soft Carrying Pouch (with Neck Strap)









Network Cable

BNC Cable

UTP Terminal Block

CD: User's Manual

I.3 Dimensions

See the following diagrams for the product dimensions.



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I.4 Functionality

The product includes the following functions.





No.	Item		Description		
I		LAN / PoE Port	Connect the LAN cable from the IP camera that is PoE enabled to this port.		
2	LAN / PSE IN	Power Bank Port	The Power Bank provides DC 48V power for the IP camera that is PoE enabled. Before connecting the Power Bank to this port, please set the Power Bank Slide Switch to "On" position.		
3	SD Micro	Micro SD Slot	Insert the Micro SD card into the slot for data storage.		
4	USB	USB Slot	Connect the USB storage devices to the slot for firmware upgrade or data storage.		
5		Video In	Connect the BNC cable to the Video In from the camera.		
6		Stylus Touch Pen Slot	Use the embedded stylus touch pen for touch screen operation.		
7	-ˈ͡͡ɡ-	Power Indicator LED	Light LED indicates the power is on.		
8		Data TX/RX Indicator LED	The LED flashes when the device is under operation.		

I

9	\bigcirc	Light Sensor	The light sensor on the right above the screen can detect environmental brightness to automatically adjust the LCD screen brightness.
10		3.5" LCD Screen	The 3.5" LCD screen displays video and various setup menus.
11		Shift/PTZ Control Keys	Press the left/right/up/down arrow keys to navigate among the icons or move through the items within a menu. When viewing the PTZ Camera, users can control PTZ by these keys.
12	ESC	ESC Key	Press this key to exit without saving or returning to the previous page.
13	U U	Start/Enter/ Snapshot Key	Start Function: Turn on the Main Power Slide Switch, and then press this key for about 3 seconds to start up the device. Enter-Function: Press this key to enter the sub-menu or to save setup. <u>Snapshot Function</u> : When viewing IP camera video, press this key for image snap shot. Pressing the key and the snapshot setup menu will come out within 5 seconds. Click the "Enter" icon to save the settings of the snapshot image.
14	OFF ON	Main Power Slide Switch	Turn on the slide switch before pressing the Start key.
15		Audio Out	Plug the headset into the phone jack.
16		Audio In	Connect the microphone to the audio input jack.
17	\bigcirc	Charging Indicator Light	The light will stay on while the device's battery is charging.
18	CAT5	UTP Cable	For UTP cable test, connect one end of the network cable to this port and the other end to the CAT5 UTP terminator for detecting wiring types (Straight/Cross) or errors (Open, Short, Miss Wired) from the displayed wire map on the screen.
19	DC12V	DC 12V Power Adapter Connector	Connect the supplied DC adapter cord to this DC input jack.
20	R+ R- T- T+	RS-485 Terminal Block	Connect the RS-485 lines to the terminal block correctly for the Dome Camera's PTZ control.
21	00	Loudspeaker	For audio output.

I.5 Portability

Users can safely carry the IT5000 with the supplied carrying case. Follow the instructions below to use the IT5000 as a portable device.

1. Unzip the carrying case and feed the outward Velcro strap through the inside of the slot located at the bottom of the device.



2. Pull the strap through and stick it securely to the self-adhesive Velcro surface inside the carrying case.



3. Thread the Velcro strap on the edge joint through the inside of the slot located on the top of the device.



4. Pull the strap through and fasten it tightly across the case joint to the Velcro on the opposite side.



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5. Lift the front part of the device up and put the sunshade's short wing into the space between the device and the self-adhesive Velcro surface. Align the wing's left edge with the left edge of the device. Fasten the short wing to the Velcro surface tightly.



6. Fold one wing around the edge of the device, and insert the tail of the wing into the space between the device and the Velcro surface. Fasten the tail to the Velcro tightly.



- 7. Repeat steps 5 and 6 using the other wing. **Note:** Fold the sunshade down to close the case.
- 8. Hook the carrying case to the neck strap. Slide the clip along the strap to adjust its length.



I.6 Power On/Off

To power on the IT5000, set the **Main Power Slide Switch** to the "**ON**" position. Press and hold the **Start Key** for three seconds to turn on the Power Indicator LED.

The device begins powering and a loading bar displays on the screen for ten seconds. **Note:** The Data TX/RX Indicator LED begins blinking.



The Home Screen appears within 50 seconds.



I.7 Battery Charge

The IT5000 uses a rechargeable Li-ion battery pack. The batter pack charges in approximately four hours and provides the IT5000 with up to three hours of operating life.

To open the battery compartment cover, press and push it outward.



When installing the battery, ensure that the positioning is correct.



The charging indicator light is on during the charging process. The light turns off when charging is complete.



The device is in the Touch Panel Calibration mode for the initial access to the system or when a system reset occurs. Use the following steps to calibrate the system prior to viewing the *Home Screen*.



- I. Tap the flashing cross on the left top of the screen.
- 2. Hit the flashing cross on the opposite diagonal corner.
- 3. Touch each flashing box as instructed.



The Home Screen displays after completing the calibration.



3. Screen Layout

lcon	Туре	Description
	Battery Status	Indicates the battery level and charging status.
PSE	PSE	When the device is connected to an IP camera that is PoE enabled with the device's PoE function on, the PSE button will be lightened up, and the Camera will drain power from the device's internal battery.

The following icons provide status information.

The following buttons are available from the Home Screen.

lcon	Туре	Description
G	Home Screen	Return to the Home Screen
۲	Return	Return to the previous page
0	Enter/Save	Enter the submenu of a function or to save settings
	AV In	View the video display on the LCD screen via the video output of the BNC supported camera
	Connect	Directly connect to the IP camera with one touch
The second se	IP camera	Access the IP camera menu options
-Jo	Device Search	Ideal for testing multiple IP cameras Tap this icon to find all the IP cameras in the network. Select a specific IP camera by IP or MAC from the address list
UPnP	UPnP	Tap this icon to find all the IP cameras with UPnP names in the network Select a specific IP camera from the address list
J.	Cable Test	Detects the CAT5 Cable for wiring types (Straight/ Cross) or errors (Short/ Open/ Miss Wired)
PoE	Power Over Ethernet	Tap this icon to enable Power over Ethernet (PoE) output for IP cameras that are PoE/ PoE Plus enabled
POE	PoE Setup	Select for PoE setups including Power Level, Power over Ethernet (PoE) measurement, PoE measurement display, Enable PoE when booting, and PoE auto-shutdown time
×	Setup	Configure various setups for cameras and the IT5000

Press the **Setup** button in the Home Screen to view and use the buttons on the Setup screen.



The following buttons are available from the Setup screen.

lcon	Туре	Description
AV	Setup-AV	Access the Setup AV menu options
-∕l∕ ¢	Setup- AV Video	Adjust analog video's brightness, contrast, and sharpness
S	Setup- AV Dome	Configure the Dome Camera's protocol, baud rate, and ID address
Fe	Setup-IP	Access the Setup IP menu options
E	Setup-IP connection	Configure the IP camera's network settings Load relevant settings from an IP camera to the device
	Setup-IP script	Adjust IP camera video's brightness, color level, contrast, and sharpness by editing the API commands Import the relevant API commands from other IP camera to the device
	Setup-Snapshot	Preview and manage the snapshot files
	Setup-Video	Access the Setup Video menu options
	Video-Rec Setup	Setup the recording video file name, description, and saving path
F	Video- Playback	Preview, playback, and manage the video files
	Setup-System	The device system settings include volume, LCD brightness, firmware upgrade, factory default reset, and auto shutdown setup

View analog video through the BNC IN connector on the top of the device.



Connect the BNC cable from the video output connector of the camera to the BNC IN port on the device.



To view live video from an IP camera which supports BNC via AV In function, confirm the IP camera streaming is set as "BNC Out."

4.1 Dome Camera Live View

Implement a dome camera's PTZ control in the live view mode.

NOTE: Confirm the dome camera's RS-485 lines are correctly connected to the device's RS-485 terminal block.

4.1.1 Enable PTZ Control Function

Tap the <Setup> \times button on the Home Screen and then tap <AV In> \checkmark to enter it.



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Tap <Setup-AV Dome> 🖾 and enter its settings.

Domotuno	(Disable T)	-
Dome type		1000
Protocol	Pelco_D	-
Baud Rate	2400 bps)	
ID	0 0 1 1	
		1

Select <Enable> from the <Dome type> drop-down list. Tap <Enter/Save> V to save the settings, and the system automatically returns to the previous screen.

Tap <Return> () to return to the Second Screen.

4.1.2 Implementing PTZ Control

Tap <AV In> with button in the *Home Screen* to enter the live view mode. Four arrow buttons display on the screen.



Tap the arrows on the screen to pan and tilt the camera. Press the Up/Down Shift Keys (

Adjust video brightness, contrast, or sharpness for different live viewing quality in the <Setup-AV Video> function which can be accessed by the following path: **Setup> Setup-AV > Setup-AV Video**.

4.2 Fixed Camera Live View

In the Fixed Camera's live view mode, the TV System (NTSC/PAL) of the camera displays on the left bottom of the screen.



Adjust video brightness, contrast, or sharpness for different live viewing quality in the <Setup-AV Video> function, which can be accessed by the following path: **Setup-Setup-AV Setup-AV Video**.

4.3 AV Video Setup

The <Setup-AV Video> can be accessed by the following path: Setup> Setup-AV> Setup-AV Video.

In the <Setup-AV Video> 🕍 menu, adjust analog video's brightness, contrast, or sharpness.



Access <Step- AV Video>

Tap <Setup> on the Home Screen. Tap <Setup-AV> It o enter the AV Setup Screen. Tap <Setup-AV Video> to enter the settings page.



In the <Setup-AV Video> setting page, the live video displays on the upper screen.

Adjust Brightness/Sharpness/Contrast Value

Move the slider bar by touching the screen or using the device's Left/Right Shift Keys (\Im).

Switch to another Item

Tap the <AV Mode> icon next to the slider bar or press the device's Up/Down Shift Keys to switch among Brightness, Sharpness, and Contrast settings. Tap <Enter/Save> to save all the settings and automatically return to the previous page. Tap <Return> to the settings page without saving settings.

4.4 AV Dome Setup

In the <Setup-AV DOME> is menu, enable/disable PTZ controls and configure the dome camera's protocol, baud rate, and ID address.



Access <Step- AV Dome>

Tap <Setup> X on the Home Screen. Tap <Setup- AV> V to enter the AV Setup Screen. Tap <Setup- AV Dome> to enter the settings page.

	0)	PSE)
Dome type	Disable 💌	
Protocol	Pelco_D	
Baud Rate	2400 bps)	
ID		
0		

Set the Dome Type

Select <Enable> or <Disable> from the drop-down list of the <Dome Type>. <Enable> activates PTZ control on the device; <Disable> indicates disabling PTZ controls on the device.

Set the Protocol

Select the protocol for the dome camera from the drop-down list.

Set the Baud Rate

Select the baud rate for the dome camera from the drop-down list.

Set the ID Address

Enter the three-digit ID address.

Tap <Enter/Save> V to save all the settings and return to the previous screen. Tap <Return> V to exit the settings page without saving settings.

5. Cable Test (CAT5)

Check the RJ-45 cable wiring with the supplied UTP Terminal Block.

Setup for Testing

Connect one end of the RJ-45 connector to the UTP Terminal Block and the other end to the CAT5 port at the side of the device.

Cable Testing

Tap the <CAT5> 🚅 icon on the Home Screen.





and wait for wiring detection.



The cable's wire map displays on the screen. Check the RJ-45 cable for its wiring type (Straight/Crossover) and error connection (Shorts/ Open/ Miss Wired).

Tap <Return> 🔍 to return to the Home Screen.

6. IP Camera Live View

The device automatically detects and recognizes the IP camera that is connected to it. Connect the IP camera to the device's LAN port; plug in the IP camera if not using PoE.

Automatically Chang the Device's IP Address

After turning on the IP camera, the device automatically detects the IP address and displays it on the screen.

6.1 Connect IP Camera (Direct Connection)

Setup for Direct Connecting

Tap the <IP Camera> 🔤 icon on the Home Screen to enter the submenu.

Check the IP Camera Profile in the field under the <Connect> (I) icon. The IP camera's profile details include IP address, camera type, username, and password. The device connects immediately to the camera and provides live video. Information appears after connecting the device to the camera.



To alter any of the settings, access the Setup-IP menu.

Access the Camera

Tap the <Connect> 💷 icon on the IP Camera Submenu. The live video displays on the LCD screen.

Digital PT Control (For Fixed Camera)

In the IP camera's live view mode, the text "ZOOM" displays on the right bottom of the screen. Tap the text "ZOOM" and the video changes to the digital zoom mode. The text "P & T" displays on the left bottom of the screen.

Zoom

Press the Left/Right Shift Keys (U), to horizontally shift the image to the left/right. Press the Up/Down Shift Keys ((), to shift the image upward/downward. Tap "ZOOM" or "Esc" to leave the Digital PT Control mode.

Exit the Viewing Mode

Press the ESC Key on the device's button pad to exit the live view mode and return to the IP Camera Submenu.

6.2 Device Search

If there are multiple IP cameras in the network, use the <Device Search> function to search for cameras.

Access < Device Search> in the IP Camera Submenu.



Implement Device Search

Tap the <Device Search> 🔛 icon to enter the Device Search page.



Select the target IP camera from the device list on the left top of the screen. Select the camera connection duration from the available dropdown. For a custom setting, select <Custom> from the dropdown and enter the value in the field at the bottom of the setup page. Tap <Connect> beneath the Password column to being connecting. The live view video displays on the screen.

Digital PT Control (For Fixed Camera)

In the IP camera's live view mode, the text "ZOOM" displays on the right bottom of the screen. Tap the text "ZOOM" and the video changes to the digital zoom mode. The text "P & T" displays on the left bottom of the screen.



Press the Left/Right Shift Keys () to shift the image horizontally to the left/right. Press the Up/Down Shift Keys () to shift the image upward/downward. Tap "Zoom" to leave the Digital PT Control mode.

PTZ Control (For IP dome camera)

In the IP camera's live view mode, the text "ZOOM" displays on the right bottom of the screen. Tap the text "ZOOM" and the video changes to the digital zoom mode. Four arrow buttons display on the screen. Tap the arrows on the screen to pan and tilt the camera.

Press the Up/Down Shift Keys () on the device's button pad for zooming in/out.



Exit the Viewing Mode

Press the ESC Key on the device's button pad to exit the live view mode and return to the IP Camera Submenu.

<u>6.3 UPnP</u>

Users can search all of the IP cameras with UPnP names in the network via <UPnP>

Tap <IP Camera> and enter the IP Camera Submenu to access the <UPnP> setup page.



Implement UPnP

Tap the <UPnP> icon and enter the UPnP page.



Select the target IP camera from the device list on the left top of the screen. Select the camera connection duration from the available dropdown. For a custom setting, select <Custom> from the dropdown and enter the value in the field at the bottom of the setup page. Tap <Connect> beneath the Password column to being connecting. The live view video displays on the screen.

Digital PT Control (For Fixed Camera)

In the IP camera's live view mode, the text "ZOOM" displays on the right bottom of the screen. Tap the text "ZOOM" and the video changes to the digital zoom mode. The text "P & T" displays on the left bottom of the screen.



Press the Left/Right Shift Keys ((\bigcirc)) to shift the image horizontally to the left/right. Press the Up/Down Shift Keys ((\bigcirc)) to shift the image upward/downward. Tap "Zoom" to leave the Digital PT Control mode.

PTZ Control (For IP dome camera)

In the IP camera's live view mode, the text "ZOOM" displays on the right bottom of the screen. Tap the text "ZOOM" and the video changes to the digital zoom mode. Four arrow buttons display on the screen. Tap the arrows on the screen to pan and tilt the camera.

Press the Up/Down Shift Keys () on the device's button pad for zooming in/out.



Exit the Viewing Mode

Press the ESC Key 🖾 on the device's button pad to exit the live view mode and return to the IP Camera Submenu.

6.4 IP Camera Setup

Access the Setup-IP Submenu to change the IP camera's settings.

Access <Setup- IP Connection> and <Setup- IP camera>

Tap the <Setup> 🔀 icon on the Home Screen.



Tap <Setup-IP> to enter the IP Setup Submenu.



The <Setup-IP Connection> 🔹 icon and <Setup-IP Camera> 🔤 icon are in the IP Setup Submenu.



6.4.1 Setup-IP Connection (Alter Camera Settings)

TESTER Addr 192 168 DHCP) 18 107 Camera Profile Default Camera IP 168 214 192 8 Check Camera Type ONVIF admin User Name Password Show HTTP Port 80 Manual) Keyboard TESTER : [192.168.8.107] Streaming Port 554 6 9 MPEG4 Streaming Format **9** MJPEG H264 D RTP+RTSP C RTP/RTSP Streaming Protocol **9** RTP/RTSP/HTTP RTP/RTSP/HTTPS 9 HTTP Keyboard TESTER : [192.168.8.107]

Tap the <Setup-IP Connection> icon to enter the setup page.

Specify Camera Settings

Specify the necessary information for the camera's settings in the available fields.

Add a Camera to List

To add a camera to the Camera Profile list, enter the model name in the <Camera Profile> column and tap

the icon word on the right side of the column.

To cancel a camera, select the camera and tap the icon 2. Assign up to 128 IP cameras for testing.

Tap <Enter/Save> V to save all the settings and automatically return to the previous screen.

Tap <Return $> \bigcirc$ to exit the settings page without saving settings.

6.4.2 Setup-IP Camera (Load the Network Settings)

Access the Setup-IP Camera> 🔷 page to check or alter the IP camera's network settings.

Tap the <Setup-IP Camera> 🚾 icon and enter its setup page.

Load from Camera	Set to Sameral 📕 DHCP	
IP address		I
Subnet mask		
Default gateway		Ĩ
Primary DNS		l
Secondary DNS		U
HTTP port		
KeyBoard	Target IP: 192.168.8.214	$\overline{\mathbf{D}}$

Load Settings from the IP Camera

Tap the <Load from Camera> button on the top of the menu and the IP camera's network settings display in the blank field. **NOTE:** Confirm the target camera's settings are correctly configured.

To alter the camera settings, tap the <Return> 🕑 button and enter the <Setup-IP Connection> to change the camera settings.

Reload the Settings to the IP Camera

After making network setting changes, tap the <Set to Camera> button on the top of the setup page to reload the network settings to the camera.

Tap <Enter/Save> 💟 to save all the settings and return to the previous screen.

Tap <Return> () to exit the settings page without saving settings.

6.4.3 Setup- IP Script (IP Camera API Commands)

Tap the <Setup- IP Script> (1) icon to enter the setup screen.

Target IP: 19	2.168.8.2	14 Impo	t) Save)	
ANS -				Ē
Brightness	50		Send	Edit
Color level	50	1	Send	Edit
Sharpness	50		Send	Edit
Contrast	50		Send	Edit
			Send	Edit
			Send	Edit
0	K	eyboard		

This script tool can be used to set any of the API commands supported by the IP camera. The unit is supplied with a default set of commands already loaded, but these can be replaced or added to as required. It is also possible to create/edit a script on a PC and then tap the <Import> button to load it via a USB stick (name the file script.txt).

Tap the <Save> button to save the settings. Tap <Enter/Save> 💙 to save and return to the previous screen.

Tap <Return> \bigcirc to exit the settings page without saving the settings.

7. Power over Ethernet (PoE)

The IT5000 functions as the power sourcing equipment (PSE) and provides power to IP cameras that are PoE/ PoE Plus enabled.



7.I Enable PoE

Connect the Ethernet cable from the IP camera to the LAN/PoE OUT Port on the side of the device. The power switch located next to the LAN/PoE port must be "OFF."

Tap the <PoE ON> comes on when the device provides power to the IP camera.

The <PoE ON> icon turns into <PoE OFF> when the PoE is enabled. Tap <PoE OFF> to turn off the PoE function.



7.2 PoE Setup

Tap the <PoE Setup> 🔯 icon on the Home Screen.



Power Level

Set the output Power Consumption Level range according to specific requirements. **NOTE:** Confirm the PoE function is off prior to adjusting the Power Level settings.



PoE Measurement

Select from the <PoE Measurement> dropdown to display the PoE Measurement information.



PoE Measurement Display

Select from the <PoE Measurement Display> dropdown to display PoE Measurement information.



Enable PoE after device Bootup

Select $\langle ON \rangle$ from the $\langle Enable PoE$ when booting \rangle dropdown to configure the device to provide power to the IP camera after system startup.



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PoE Auto-shutdown

Select the PoE auto-shutdown interval. Setting the device to an automatic shutdown interval attributes to battery conservation. A reminder displays five seconds prior to shut down.

Tap <Enter/Save> to save the settings and return to the Home Screen.

Tap <Return> \bigcirc to exit the settings page without saving the settings.

Power Level : Mid-High(6~2	5W+EXT 12V) 🔻
PoE measurement :	OFF
PoE measurement display :	(V+I+P ▼
Enable PoE when booting :	OFF -
PoE auto-shutdown after :	20 Sec
0	40 Sec 60 Sec

8. Snapshot

The Snapshot function facilitates saving images in the assigned path when necessary.

8.1 Implement Snapshot

In the IP camera's live view mode, press the <Snapshot> key on the device's button pad to enter the Snapshot setup page.



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Snapshot File Setup

Assign a storage location from the three options (Tester / USB/ SD) located at the very top of the snapshot setup page by tapping the round button on the left side of the option. Enter the file name and description for the snapshot.

Tap <Enter/Save> 💟 to save the settings and return to the live view mode

Tap <Return> 🔍 to exit the setting page without saving settings.

Files in USB/SD

Files saved to the USB drive or Micro SD card automatically save in the "IMAGE-DATA" folder. Each snapshot's description is located in the attached .txt file.

8.2 Snapshot Setup

Preview, copy, and delete images on the <Setup-Snapshot> setup page.

Tap the <Setup> 🔀 icon on the Home Screen and tap on <Setup-Snapshot> 📟 to enter the snapshot file managing page.



Image Preview

On the <Setup-Snapshot> page, select the snapshot storage path (Tester / USB/ SD) where the saved files are located. The files appear in a list in the <File List> field. To view a snapshot, tap the file name in the list and the image appears in an <Image Preview>.

Single File Copy

Tap the file name in the list to copy a single file. Tap the <Copy> icon in the <File Manager> section below

<Image Preview>. Select the copy location in the window and tap <Enter/Save>

All Files Copy

Tap the <Select All> icon in the <File Manager> section to select all the files in the <File List>. Tap the

<Copy> icon to copy all the files. Select the copy location in the window, and tap <Enter/Save> 💟

Single File Deletion

Tap the file name in the list to delete a single file. Tap the <Delete> icon in the <File Manager> section. Tap <OK> in the window to delete the file.

All Files Deletion

Tap the <Select All> icon in the <File Manager> section to select all the files in <File List>. Tap the <Delete> icon to delete all the files. Tap <OK> in the window to delete all selected files.

9. Video Recording

The device supports Video Recording, Video Setup, Video File Managing and Video Playback functions for IP camera live views.

9.1 Implement Video Recording

In the IP camera's live view mode, tap the white text "REC" on the right top corner of the live view screen to start Video Recording. During the recording process, the text appears in red. Tap the text "REC" one more time to stop Video Recording and the returns to white.



Video Recording Setup (Video- Rec Setup)

Tap the <Setup> 🔀 icon on the Home Screen. Enter <Setup- Video> by tapping the icon.



Tap <Video- Rec Setup> on the Video Setup Screen to access the video recording setup page.



Assign a storage location by tapping the round button on the left side of the available options. The three options (device/ USB/ SD). Enter the file name and description for the snapshot.



Tap <Enter/Save> 🖤 to save all the settings and return to the live view mode. Tap <Return> 🔍 to exit the settings page without saving.

9.2 Video Playback

Users can preview, copy, and delete the video on the <Video- Playback> page.

Tap the <Setup> icon on the Home Screen and tap <Setup- Video> I to enter the Video Setup Screen. Tap <Video- Playback> to access video play back page.



Video Playback

On the <Setup-Snapshot> page, select the recording video storage path (Tester / USB/ SD). The list of video files appears in the <File List> field. To view a video, tap the file name in the list and tap the <Playback> button on the bottom. The video appears as full screen.



In the Video Playback mode, press <ESC> is to stop playback and return to the video playback page.

Single File Copy

Tap the file name in the list to copy the file. Tap the <Copy> icon in <File Manager> section. Select the copy location in the window and tap <Enter/Save>

All Files Copy

Tap <Select All> in the <File Manager> section to select all the files in <File List>. Tap <Copy> to copy all

files. Select the copy location in the window and tap <Enter/Save>

Single File Deletion

Tap the file name in the list to delete the file. Tap the <Delete> icon in the <File Manager> section. Tap <OK> in the window to allow file deletion.

All Files Deletion

Tap <Select All> icon in the <File Manager> section to select all the files in <File List>. Tap <Delete> to delete all the files. Tap <OK> in the window to confirm.

10. System Setup

Use the system setup page to adjust the volume or brightness of the LCD screen, implement firmware upgrades, restore system settings to factory defaults, and select an auto shutdown time.

Access <Setup- System>

Tap the <Setup> 🔀 icon on the Home Screen.



Tap the <Setup-System> 😡 icon to enter the system setup page.

					O) PS	
<u> </u>	Set	tup-	Syst	em		
2	4/		FC	Ę	Je.	
))		0			
Volume	<u></u>				60	$\overline{\bullet}$
Backlight	E Auto	o Contr	<u> </u>		15	
Version : 0	314-04	12-04	20.		Upg	rade
Factory De	efault				Def	ault
Auto Shuto	lown				OFF	-
0	MAC : (00:D0:	89:84:8	4:42		\bigcirc

Adjust device Screen Brightness (Backlight)

Move the slider bar to adjust the <Backlight>. Tap the <Auto Control> box to lock the level on the slider bar. Tap the <Auto Control> box again to cancel the selection.

Upgrading Firmware

Before proceeding with the upgrade, download both upgrade files from http://www.razberi.net/products/accessories/it-5000/. Then place the upgrade files within the following folder structure **E:\upgrade\upd_razberis** on a USB thumb drive.

Note: For units being upgraded from version 476 and above, the files can be stored at the root (E:\) directory of the thumb drive.

Access <Setup- System>

Tap the <Setup> 🔀 icon on the Home Screen.



Tap <Setup-System>

Select < Upgrade>

Tap <USB>

	Setun-System	Volume 60 🕥	Volume	Upgrade Version Source Select
		Backlight 15	Backlight	USB
	AV 🥂 🌱	Version : 0314-0412-0420.	Version :	Di Upgrade all
		Factory Default Default	Factory D	Default
		Luto Shutdown	Auto Shu	
0		MAC: 00:D0:89:84:84:42		<u> </u>

The firmware details will display in the blank field of the file selection menu.

Check the <Complete upgrade> box and tap <Enter/Save> V to start the upgrade. Tap <OK> to confirm the upgrade and continue.

Reset to Factory Defaults

Users can restore the device to factory defaults if necessary. Tap the <Default> button. Tap <OK> in confirmation prompt to continue. Tap <OK> to reboot the system. The device shuts down and restarts. The device must be calibrated upon reset.

Auto Shutdown

The system automatically shuts down after a pre-determined time range when idle. Select the specific time interval from the dropdown for auto shutdown. To disable the <Auto Shutdown> function, select <OFF>.

Display						
Color LC	CD Field Display	3.5", automatic aspect ratio adjustment				
Resolutio	ons	320x240				
Connectors						
Video Inp	out	BINC VIdeo In, KJ-45, KS-485, CAT-5, USB 2.0, POE TUBASE-1/TUUBASE-1X PoE IEEE 802.3at				
Video	···	Automatica Deinkersen Calan Laura Constant				
Image Set	ttings	Autosensing Brightness, Color Level, Contrast				
PIZ Con	itrol	KS-485				
RS-485 P	orts	R+, R-, T+, T-				
PTZ Can	nera Settings	Pan, Tilt, Zoom, Manual Focus, Auto Focus				
Supported PTZ Protocols		AD422, DSCP, Dynacolor, Fastrax 2, JVC, Molynx, Optix, Panasonic_C,				
		Panasonic_N, Pelco D, Pelco P, Sensormatic				
Video		Video Level Video				
IP Came	ra	video Level 110pp, 140inL				
LAN In		10/100 Mbps, 48VDC In, Power Bank In				
LAN Out	t	10/100 Mbps, 802.3at standard				
IP Camer	ra Settings	IP Address setting, Image Setting				
		ACTi, AMTK, autoIP, Axis, Arecont Vision, D-Link, DVTel, Dynacolor,				
Camera S	Support	eVidence, HikVision, IQinVision, ONVIF, Optix, Panasonic, Planet,				
Oneutien		razberi™, Sanyo, Siqura, Sony, SPECO, Vivotek, XVISION, ZAVIO				
Weight (Battery included)		0.99 lb (450 g)				
Dimensions (LxWxH)		170x99x38 mm				
Battery T	Гуре	2 x 3.7 V Li-Ion, 2000mAh				
Charging	Cycles/Time	80% capacity after 300 charge cycles / 3.5 hours				
Operating Time		3 hours with PoE off / 2 hours with PoE on				
Operatin	g Conditions	Temperature: 32° F to 122° F				
Notwork	-	Humidity: 20-80% KH (non-condensing)				
IP Setting	7	DHCP, Static IP address				
Application Programming		Open API for software integration				
Interface		Open API for software integration				
General Specifications						
Casing Included Accessories		ABS Plastic, Color: Blue				
		block Ethernet cable BNC cable car charger 12V DC power supply				
		CE. FCC				
Memory		128 MB RAM (16 MB available for snapshots)				
Input Voltage		DCI2V, 5A				
Storage		MicroSD Card supported (card not included)				
Audio	lan	l ine ln				
Audio	Input					
Audio	Output	Built-In Speaker, Phone Jack Ф3.5				
Audio PoE	Output Bypass / Power Bank	Built-In Speaker, Phone Jack Φ3.5 PoE/PoE Plus LAN In				

Appendix B: Quick Start Guide (Directly Connected To IT-5000)

			IT-5000 SETUP SCREENS					
MFG	DEFAULi	DEFAULT USER	PoE	SETUP	SETUP	CAM/	САМ	CON.
	STATIC IP ADDRESS	NAME / PASSWORD	CONFIG	SCREEN	IP	NET	CON.	TYPE
Arecont Vision	No Default	USER NAME / PASS LEFT BLANKED	Por	×	-		1	Þ
AXIS	192.168.0.90	root / pass	Por	×	-		•	
Panasonic	192.168.0.10	admin / 12345	Por K	×	J	E,	J	
	192.168.0.250	Admin / 1234	° °€	×		E.	J	Þ
SONY	192.168.0.100	admin / admin	° ₹	×	-		1	Þ
	192.168.0.99	USER NAME / PASS LEFT BLANKED	POE	×	J.	E.	F	

SEE CAMERA MANUFACTURER MANUAL FOR DEFAULT LOGIN INFORMATION



ONVIF SELECTED



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