H.264 IR BULLET NETWORK CAMERA



ZN-B2MTP / ZN-B1MTP

USER'S MANUAL

Before connecting, operating or adjusting this product, read this instruction booklet carefully and completely





SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- 9) Only use the attachments/accessories specified by the manufacturer.
- 10) Use only with a cart, stand, tripod or bracket specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has be en damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled o r objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, doe s not operate normally, or has been dropped.

CALIFORNIA USA ONLY

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA. "Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/ hazardouswaste/perchlorate."

Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock does not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

GANZ

In USA and Canada, Use Class 2 Power Supply Only

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1. Product Features

The GANZ PixelPro is a high performance H.264 network camera, designed for demanding security installations. It delivers crisp, clear images, disclosing every detail, thanks to its top quality Megapixel progressive CMOS sensor and advanced image processing.

Supported by the industry's largest base of video management software, the GANZ PIxelPro provides the perfect solution for securing bank offices, airports and other facilities, and for traffic surveillance, over IP based networks.

The optimal Power over Ethernet (IEEE 802.3af) support power to the camera to be delivered via the network, eliminating the need for a power outlet and reducing installation costs. Steady power could be guaranteed with a central Uninterruptible Power Supply (UPS).



The GANZ PixelPro offers a comprehensive set of network security and management features.

This includes support for port based network control (IEEE802.1X), which allows the camera to be connected to a network secured with this control, and HTTPS encryption, which provides a secure channel between camera and application. It also enables authentication of the video source. Video products are efficiently managed with the powerful GANZ PixelPro Camera Management tool, which is provided on the Installation CD which comes with each GANZ PixelPro camera.





1. Network connector

The GANZ PixelPro connects to the network via a standard network cable, and automatically detects the speed of the local network segment (10BaseT/100BaseTX Ethernet). This socket could also be used to power the GANZ PixelPro via Power over Ethernet (PoE). The camera auto-senses the correct power level when using a PoE switch, router or injector.

When you use a built-in Heater on the camera, particularly you don't need connect the PoE power to the camera. Camera need to connect 24VAC power.

2. Power Connector

24VAC power connector

Note: Heater function is required 24VAC power supply.

When 24VAC power connected to the camera, particularly you don't need connect PoE power.

Note: Heater will be turned-on/off automatically in low ambient temperatures.

3. I/O connector

Audio in

Audio in (line level), for line-in mono signal (only left channel is used from a stereo signal)

Audio out

The Audio output (line level), which could be connected to a line output of a microphone system or an active speaker with a built-in amplifier.

Alarm in

One analog (dry contact) alarm input



Alarm out

One relay output (0.5A 125VAC / 1A 30VDC)

Pin Assignment



4. Micro SD card

Save snapshot images onto a Micro SD card.

5. Control Button

This button has 3 functions by pressing time.

- 1) Switch NTSC / PAL format (less than 1 second)
- 2) System reboot (around 5 seconds)
- 3) Factory Default Reset (More than 10 seconds)

6. Status LED

LED Color	Indication	System Status
Green	0.7	Connection to 10/100Mbps Network / LAN.
	On	Network connection is established.
	Flaabaa	Indication of network activity.
	Flashes	Camera is booting up.
Liplit		No network connection established.
Onin	-	When no or incorrect power is supplied.
Red	On	Camera reset is in progress.
	Flashes	Factory Default settings are in progress.

7. Video Output for Service monitor

This analog video output is available. Use accessory cable to video output.





Adjustment





- A: Rotate locking screwB: Tilt locking screwC: Pan locking screw





Mounting to a ceiling / wall

Secure the camera to ceiling or wall with supplied tapping screws like below. For waterproofing purposes, apply the "Silicone sealant" around the area where the mount base contacts the wall or ceiling.



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2. Accessing the Camera

Follow the instructions in the GANZ PixelPro Installation Guide to install the camera.

The GANZ PixelPro could be accessed with most standard operating systems and browsers. The recommended browser is Internet Explorer for Windows with other operating systems.

2.1 Access from a browser

1. Start a browser (Internet Explorer)

2. Enter the IP address or host name of the camera in the Location/Address field of your browser. Press Enter.



- 3. Login dialog will appear when the camera is accessed for the first time.
- 4. The default user name is **ADMIN**, and password is **1234**.
- 5. The camera's Live View page is now displayed in your browser.
- Note: The layout of the live view page in the camera may have been customized to meet specific requirements. Consequently, some of the examples and functions featured here may differ from those displayed on your own Live View page.



2.2 Accessing the camera from the Internet

Once installed, the camera is accessible on the local network (LAN). Configure the router/firewall to allow incoming data traffic to access the camera from the Internet. For security reasons this is usually done on a specific port. Please refer to the documentation for router/firewall for further instructions.

2.3 Adjusting the Image and Focus

To adjust the position of the lens:

- 1. Open the Live View page in your web browser.
- Select the **Setup** tab, and open the **Analog output** page.
- Select the 'Video Format'.
- 2. Connect analog monitor to the VIDEO OUT (BNC) on the supplied cable.
- Control the ZOOM/FOCUS by the Lens Adjustment window, and adjust the camera angle. For lens adjustment method, please refer to "5.2.5 Lens Adjustment".
- 3. Check the image from the Live View page on your web browser.
- 4. You can refocus adjustment by Lens Adjustment window, if you want fine lens adjustment.

2.4 The Live View page

(پ	Enable/Disable PC Speaker output
	Enable/Disable PC Microphone input
Ð	Digital Zoom
٥	Snap Shot
	Full Screen
2	Video Stream change: First stream 🖙 Second stream
•	Play: Click this button by manually to start the stream
	Stop: Click this button by manually to stop streaming

NOTE: It is possible that not all the buttons described below will be visible unless the Live View page has been customized to display them.



2.5 Video stream types

H.264 protocols and communication methods

• **RTP** (Real-time Transport Protocol) is a protocol that allows programs to manage the real-time transmission of multimedia data, via unicast or multicast.

• **RTSP** (Real Time Streaming Protocol) serves as a control protocol, to negotiate the type of transport protocol to use for the stream. RTSP is used by a viewing client to start a unicast session.

• UDP (User Datagram Protocol) is a communications protocol that offers limited service for exchanging data in a network which uses the Internet Protocol (IP). UDP is an alternative to the Transmission Control Protocol (TCP). The advantage of UDP is that, it is not required to deliver all data and may drop network packets when there is network congestion. This is suitable for live video, as there is no point in retransmitting old information that will not be displayed anyway.

• **Unicasting** is communication between a single sender and a single receiver over a network. This means that the video stream goes independently to each user, and each user gets own stream. A benefit of unicasting is, in case one stream fails, it only affects one user.

• **Multicasting(Will be supported)** is bandwidth-conserving technology that reduces bandwidth usage by simultaneously delivering a single stream of information to multiple network recipients. This technology is used primarily on delimited networks (intranets), as each user needs an uninterrupted data flow and should not rely on network routers.

2.6 How to stream H.264

Deciding on the combination of protocols and methods to use depends on your viewing requirements, and on the properties of your network. Setting the preferred method(s) is done in webpage.

RTP+RTSP

This method (actually RTP over UDP and RTSP over TCP) should be your first consideration for live video, especially when it is important to always have an up-to-date video stream, even if some images are lost due to network problems. This could be configured as multicast or unicast.

RTP/RTSP/Multicasting (Will be supported) provides the most efficient usage of bandwidth, especially when there are large numbers of clients viewing simultaneously. Note however, that a multicast broadcast could not pass a network router unless the router is configured to allow this. For example, It is impossible to multicast over the Internet.



RTP/RTSP/Unicasting should be used for video-on-demand broadcasting, so that there is no video traffic on the network until a client connects and requests the stream. However, as more and more unicast clients get connected, the traffic on the network will increase and may cause congestion. Although there is a maximum of 10 unicast viewers, note that all multicast users combined count as 1 unicast viewer.

RTP/RTSP

This unicast method is RTP tunneled over RTSP. This could be used to exploit the fact that it is relatively simple to configure firewalls to allow RTSP traffic.

3. The Setup

The GANZ PixelPro is configured from the Setup link, which is available on the top left hand side in the web interface. This configuration could be done by:

• Administrators, who have unrestricted access to all settings under the Setup tab.

Accessing the Setup link from a browser

1. Start your web browser and enter the IP address or host name of the camera into the address bar.

2. The Live View page is now displayed. Click on the Setup tap.





4. Analog output

GANZ	Live	Setup	WEB Remote Viewer
► Analog Output	Analog Outpu	it Setup	
□ Video	Analog	Video Format NTS	
Audio	, unalog	indeer ennat inte	
■ FTP			SAVE RESET
Event			
Network	Go to		
System	Setup Video C	<u>Jodec</u>	

4.1 Analog Output Setup

Analog output allows selection of output format of the analog BNC output from the camera. NTSC, PAL: Analog Output is selectable.

5. Video

The following descriptions show examples of some of the features available in the GANZ PixelPro.

5.1 Codec

These are the tools for adjusting the H.264 settings and controlling the video bit rate.

GANZ	Live Setup						WEB Remote Vie
Analog Output	Video Codec						
▶ Codec	Stream	1st		2nd			
Camera	Sizo	1220-720		1220-720	_		
Audio	Frame Rate(FPS)	30		30	• •		
m Live	GOP Size	30	Frames[1~60]	15	Frames[1~60]		
T FTP	Bit-rate Control	CBR	•	CBR			
n Event	Average Bit-rate	8000	kbps	1600	kbps	[512kbps~10000	(bps]
	MJPEG Quality	80		80		[1~100]	
Network							
System	De est Quelltu	055					
	Boost Quality	OFF	•				
	Anti-Flicker Mode	60Hz	•				
	Video Mirroring	FLIP(H+V)	•				
	Bandwidth Limit	OFF	-				
	MAX Bandwidth	5000	kbps [1000kbps	~ 30Mbps	5]		
						SAVE	RESET
	Go to						
	Setup Installation						
	Setup Camera						



11



H.264

This is a video compression standard that makes good use of bandwidth and which could provide high-quality video streams at less than 1 Mbit/s.

The H.264 standard provides scope for a large range of different coding tools for use by various applications in different situations, and the GANZ PixelPro provides certain subsets of these tools.

Using H.264, it is also possible to control the bit rate, which in turn allows the amount of bandwidth usage to be controlled. CBR (Constant Bit Rate) is used to achieve a specific bit rate by varying the quality of the H.264 stream. While using VBR (Variable Bit Rate), the quality of the video stream is kept as constant as possible, at the cost of a varying bit rate.

Motion JPEG

This format uses standard JPEG still images in the video stream. These images then are displayed and updated at a rate sufficient to create a stream that shows constantly updated motion.

The Motion JPEG stream uses considerable amounts of bandwidth, but also provides excellent image quality and access to every individual image contained in the stream. Multiple clients accessing Motion JPEG streams could use different image settings.

Codec

H.264 / MJPEG

Size

Video output resolution. See the next page for the output resolution table.

Frame rate

1~30fps in normal mode (1~15fps for slow shutter mode)

Note: If the slow shutter mode is turned on and the low light condition is met, the frame rate is automatically goes down. In this case, the frame is half of the normal mode.

GOP Size

 $1 \sim 60$ frames

Bit-rate control (CBR or VBR)

When using H.264 compression, if there is only limited bandwidth available, a constant bit rate(CBR) is recommended, although this may compromise image quality. Use a variable bit rate(VBR) for the best possibly image quality.





Average Bit-rate (512Kbps ~ 10Mbps)

Recommended bit rate for D1: 800Kbps ~ 1Mbps Recommended bit rate for 1.3M(720p): 3Mbps ~ 4Mbps Recommended bit rate for 2.0M(1080p): 6Mbps ~ 8Mbps

Anti-Flicker mode (Flicker less mode)

60Hz:NTSC 50Hz:PAL or flicker-free mode(to use the camera in locations lit by fluorescent lighting).

Video Mirroring

Select Video Mirroring mode NONE/ HORIZONTAL / VERTICAL / FLIP(H+V)

Bandwidth Limit

Limit the bandwidth that the GANZ PixelPro can use during a network connection.

Max Bandwidth

Specify the maximum bandwidth that the GANZ PixelPro can use during a network connection.

First Stream		Second Stream						
1920x1080	704x480	640x480	640x360	640x352	352x288	352x240	320x240	-
1280x1024	704x480	640x480	640x360	352x288	352x240	320x240	-	-
1024x768	704x480	640x480	640x360	352x288	352x240	320x240	-	-
1280x720	1280x72 0	704x576	704x480	640x480	640x360	352x288	352x240	320x240
704x576	704x576	640x480	640x360	352x288	-	-	-	-
704x480	704x480	640x480	640x360	352x240	-	-	-	-
640x480	640x480	320x240	-	-	-	-	-	-
640x360	640x360	320x240	-	-	-	-	-	-
352x288	352x288	-	-	-	-	-	-	-
352x240	352x240	-	-	-	-	-	-	-
320x240	320x240	-	-	-	-	-	-	-

GANZ

< Output resolution table for PixelPro>



5.2 Camera

GANZ Setup WEB Remote Views s Analog Output m Video Codec + Camera # Live # FTP m Event B Network B System 343.0 221812 Exposure Control White Balance Control Exposure Mode AUTO Y WB Mode Auto ¥ AGC Gain 0 dB [0 ~ 36] MWB Mode INDOOR(2800K) v 1/[4 ~ 2000]Value e-Shutter Speed 200 Image Property Control MAX AGC LOW ¥ Sharpness 8 [1 ~ 15, Def. :8] Slow Shutter OFF × Brightness 15 [0 ~ 30, Def. :15] BLC Control OFF ¥ Contrast 15 [0 ~ 30, Def. :15] Color 15 [0 ~ 30, Def. :15]
 Day / Night Mode
 AUTO
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 Day Mode
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 Anti-Filcker Mode Go to Anti-Filcker setup Video Mirroring Go to Mirroring setup SAVE RESET Go to Lens Adjustment

This section allows you to adjust various camera settings.

5.2.1 Exposure Control

Enable AE (Auto Exposure)

ON: Use this setting for automatic exposure control. OFF: Use these settings to control camera exposure manually.

To compensate for poor lighting conditions, you can adjust the Color level, Brightness, Sharpness, Contrast and Exposure control.

NOTE: When AE is enabled, some of the submenus (AGC Gain, e-Shutter Speed) will be disabled.

Slow shutter mode

For low light conditions, turn on slow shutter mode.

Max AGC Gain

For low light conditions, adjust to a higher value, such as 30dB.



BLC Control (Back Light Compensation)

The BLC adjusts the exposure of scenes with strong backlight in the center-bottom of the image. When the image background is too bright, or the subject too dark, backlight compensation makes the subject appear clearer. The settings for low light behavior determine how the camera behaves sat low light levels. These settings affect video image quality and how much noise is in the images.

5.2.2 Day & Night Control

Day & Night Mode

Auto/Day/Night/Schedule- If set to Auto, the camera will automatically switch according to the current lighting conditions.

Schedule- You can specify the schedule of Day mode. * Schedule is available from FW1333 and later.

5.2.3 White Balance Control

WB Mode

ON: ATW (Automatic White balance) OFF: MWB (Manual White balance)

The White balance adjustment setting is used to make the colors in the image appear consistent, compensating for the different colors present in different light sources.

The GANZ PixelPro camera can be set to automatically identify the light source and compensate for its color temperature. If necessary, the type of light source could be set manually..

5.2.4 Image Property Control

Modify the video signal parameters, such as: Brightness, Sharpness, Contrast, and Color.

Sharpness (Default: 8, Range: 1~15) Brightness (Default: 15, Range: 0~30) Contrast (Default: 15, Range: 0~30) Color (Default: 15, Range: 0~30)

5.2.5 Lens Adjustment

Adjust the lens (Zoom, Focus & Iris) from this window.

One Push Focus : Camera will automatically adjust the focus. Default : Back to initial position (wide end).





6. Audio

GANZ	Live	Setup				WEB Ren	note Viewer
 □ Analog Output □ Video 	Audio Setup						
▶ Audio □ Live		Audio ENABLE Codec G.711 u-	aw 8KHz 💌				
■ FTP ■ Event	MI	C Volume 70	•				
 ■ Network ■ System 	Speake	er Volume 70	•				
					SAVE	RESET	

The GANZ PixelPro camera could transmit audio to other clients, using a connected external microphone and could play audio received from other clients via connected speakers. This section describes how to configure the basic audio settings for the GANZ PixelPro camera, such as setting the communication mode, adjusting the sound levels in the microphone and speakers connected to the camera.

Note: The speakers connected to the audio output must have a built-in amplifier, such as PC speakers.

Audio

ON/OFF : Check this to enable audio in the GANZ PixelPro camera.

Codec

G.711 u-law

MIC Volume

Speaker Volume

Adjust the MIC and Speaker Volume.

Audio Input

Audio from a connected a line source could be connected to the Audio in connector of the GANZ PixelPro camera. If there are problems with the sound input being too low or high, adjust the **input gain** for the microphone connected to the GANZ PixelPro camera.



7. Live

GANZ	Live	Setup		WEB Remote Viewer
■ Analog Output	Viewer Setup			
	Line	View Drotocol DT		
⊞ Audio	Live		Y UNICAST (UDP) ▼ x 1/30sec [0~90: 0 ~ 3sec]	
▶ Live		unening rime u	X 1100000. [0 00. 0 0000.]	
■ FTP				
	Viewer OSD S	etup		
Network		Resolution OF	F	
		Date/Time OF	F	
		Event State OF	F	
				SAVE RESET

7.1 Setup

The GANZ PixelPro could support 10 simultaneous users. In case of multicast, the GANZ PixelPro could support unlimited number of users. If supported on the network, consider using multicasting, as the bandwidth consumption will be much lower.

Viewer Setup

LiveView Protocol RTP Unicast (UDP) / RTP Multicast (UDP) / RTP over RTSP (TCP)

Buffering Time (frame based) Determines (0 ~ 90) x 1/30 sec (0 ~ 3sec)

Viewer OSD Setup

Date : Determines whether the date is displayed.Resolution : Determines whether the camera title is displayed.Event State : Determines whether the event state is shown on display window.



7.2 Privacy Masking



This uses masking to hide sections that you do not want to appear in the shooting screen. A maximum of 2 locations can be set.

Mask Area

All View : Shows the masking area both Area 1 and 2.

Click the Masking Area 1 or 2 to make a masking.

Mask color

Sets the mask color

Black, White, Light Gray, Dark Gray, Yellow, Red, Blue, Green

Mask Creation Procedure

- 1. Click Privacy Mask in the Live menu.
- 2. Select Area1 or 2 to activate a setup window.
- 3. Set the Mask Color in the drop-down list.
- 4. Click the Masking window, and select an area that you want to specify the masking area.
- 5. Click Save.

Note: When the Privacy Masking is set, analogue output will be changed to off state automatically.

* Privacy masking is available from FW1227 and later.



8. SD Card

GANZ	Live	Setup	WEB Remote Viewer
Install	SD Card Con	figuration	
■ Video	01	powriting Fachle	
a Audio	SI	D Status CHE	ECK
■ Live	SD Safety	Remove MOUNT	IT UNMOUNT
SD Card	Erase Ima	ge Files ERAS	ASE
▶ Config			
Event			SAVE RESET
Periodical			
■ FTP	Go to:		
	Setup Video	<u>Dodec</u>	
Network			

8.1 Configuration

SD Card Configuration

This configuration page allows you to save still images to the Micro SD (SDHC) card.

Overwriting

The system will overwrite the oldest data on the SD card to continually record the newest data.

SD Status

Shows present SD card status. It also shows whether the SD card is present and the capacity left on it in kilobytes (KB).

Mount / Unmount The Mount button notifies the system after the SD card is inserted. The **Unmount** button is to notify the system before the SD card is removed. This is a similar function to the 'remove the hardware safely before taking out the USB' in the Windows OS.

NOTE: The user can download the images from the SD card using the FTP function. Turn FTP server on and connect to the camera. See Chapter 9.1 for details.

8.2 Event

GANZ	Live	Setup		WEB Remote Viewer
▣ Install ▣ Video	Event SD Wr	iting		
la Audio la Live	Ĭ	O Disable		
		Directory event	ex) alm	
▶ Event Periodical	SD Write	Mapping 🗆 Alarm In		
FTP Event Network	Effecti	ve Period Always		
∎ System			- 00 💌 00 💌	
				SAVE

Event SD Writing

You can configure the camera to store still images based on events such as Alarm In and Motion detection.

SD Writing

SD Writing will Enable / Disable event recording to the SD card. When Disabled, all remaining menus will be deactivated.

Directory

The name of the sub-directory where the still images will be stored when an Event occurs.

File Prefix

You may add a file name prefix to the stored image file name.

Example: If the file prefix is 'alm', the still image would be saved as alm_date_time.jpg.

SD Write Mapping

Choose which types of events will be recorded to the SD card by checking the desired event.

Effective Period lets you decide whether to save all the events that are happening at all hours of the day, or only the events that occur within during specific times of the day. The Schedule method is used to save events on the SD card during a specific time range. The start time and the end time can be set using the dropdown list.



8.3 Periodical

GANZ	Live	Setup	WEB Remote Vie	ewer
ː⊞ Install ːː: Video ː:: Audio ː:: Live	Periodical SD	Writing O Writing O Enable O Disable		
 □ SD Card Config Event ▶ Periodical 	F	Directory periodical ile Prefix Interval 10 sec	ex) per_	
 ■ FTP ■ Event ■ Network ■ System 	Effectiv	re Period ⊙ Always ○ Schedule 00 ♥ 00 ♥ -	- 00 💌 00 💌	
			SAVE RESET	

Periodical SD Writing

It is setting page to save the still images in the Micro SD card periodically.

The **Directory** and **File Prefix** fields are same as on the SD Card > Event page.

Interval allows for saving still images based on frequency (1 image every 10 sec, for example).

Use the drop-down control to set from 10 seconds to 1 hour.

Effective Period is also configured the same as on the SD card > Event page. Periodically, it saves the still image during a specific time range only.



9. FTP 9.1 FTP > Config

GANZ	Live	Setup	WEB Remote Viewe
 □ Analog Output □ Video □ Audio 	Server Config	uration P Sverver Disable	*
□ Live □ FTP	External Serv	er Configuration	
Event	u	Server IP 0.0.0.0 Port 21	[Def. :21, 1025~65535]
Event Network	l Se	Password end Mode Active	▼
			SAVE
	Go to	Codeo	

Server Configuration (This function is N/A on this model)

External Server Configuration

It is setting page to transmit the still shot to remote sites, using the FTP server. Specify the external FTP server information such as IP address, port number, Username and password.

Note :

When the first stream is set to 1920x1080, please set the 2nd stream to MJPEG or H.264 with resolution less than 352x288. If 2nd stream is set to H.264 greater than 640x352, 30fps streaming is not guaranteed due to performance limitation.

9.2 FTP > Event

GANZ	Live	Setup	WEB Remote Viewer
 Analog Output Video Audio Live FTP Config 	Event FTP Se	nding ^o Sending ^o Disable Directory event	
• Event Periodical Event Network System	FTP Send	File Prefix Mapping Alarm In Motion ve Period Always Schedule	ex) alm_
	Go to <u>Setup Video (</u>	00 ⊻ 00	- 00 - 00 - SAVE RESET

GANZ

Event FTP Sending

It enables FTP transmission triggered by event.

Directory : This folder will be created into external FTP server automatically. File Prefix : The file name will start from this prefix. Mapping : You can specify event mapping for Event FTP. Effective Period : You can specify "Always" or "Schedule"

9.3 FTP > Periodical

GANZ	Live	Setup			WEB Remote View
	Periodical FT	P Sending P sending	9 e		
Config Event ▶ Periodical		Directory periodical File Prefix Interval 10 sec	ex) per_		
 □ Event □ Network □ System 	Effect	ive Period ● Alway ○ Scheo 00 ▼ : 0	s ule 0 • - 00 • : 00 •		
	Go to	Condes.		SAVE	RESET

Periodical FTP Sending

It enables FTP transmission periodically.

Directory : This folder will be created into external FTP server automatically. File Prefix : The file name will start from this prefix. Interval : You can specify interval time for uploading to FTP. Effective Period : You can specify "Always" or "Schedule"



10. Event10.1 Event > Alarm Port

GANZ	Live	Setup				WEB Remote Viewe
	Alarm Input					
Audio		Type N/O	• •			
		Text ALARM 1				
■ FTP						
Event	Alarm Output					
► Alarm Port	Alarm Output	L				
Motion		Operation OFF	•			
Mapping		Mode SYNC	•			
Network		Duration 5 Sec	*			
					SAVE	RESET

- Alarm Input Used for connecting external alarm devices and triggering images for specific alarm-based events. The input is typically connected to a motion detector or any other external security device, and images could be uploaded whenever the detector is activated. Maximum 5VDC is allowed on the input.
- Output This could drive a maximum load of 0.5A 125VAC / 1A 30VDC directly or heavier loads by connecting additional relay circuitry. If the output is used with an external relay, a diode must be connected in parallel with the load for protection against any voltage transients.
- **Duration -** This parameter sets the minimum tampering period, that is, an alarm will not be triggered until this period has lapsed, even if the tampering conditions are otherwise met. This could help to prevent false alarms for known conditions that affect the image.
- Caution! Connecting AC to the inputs/outputs will damage the unit.



10.2 Event > Motion



Motion Detection

Motion detection is used to generate an alarm whenever movement either occurs or stops in the video image. A maximum of 4 windows could be configured.

Area Sensitivity : $1(low) \sim 10(High) - The higher the number is, the higher the sensitivity level becomes.$

Configuring Motion Detection

- 1. Click Motion Detection in the Event Config menu.
- 2. Select an Area from Area1 to 4 to activate a Motion setup window.
- 3. Click the Motion window, and select an area that you want to specify the Motion area.
- Select sensitivity value (1 ~ 10) in the drop-down list. Any detected motion within an active window is then indicated by red shade onto the **Activity** window.
- 5. Click Save.

Note: Using the motion detection feature may decrease the camera's overall performance.



10.3 Event > Mapping

GANZ	Live	Setup		WEB Rem	10te Viewei
	Event Mappin	g			
	Ala	rm Sensor	Alarm Out	E-mail	
a Audio	/	Narm In			
■ Live		Motion			
 FTP Event Alarm Port Motion Mapping Network System 	Go to <u>Setup E-mail</u> <u>Alarm Port</u> <u>Motion</u>			SAVE RESET	l

It is possible to define conditions that would cause the camera to respond with certain actions. A triggered event happens as a result of a trigger, which could be motion detection or an external alarm input.

For example,

Alarm out events could be triggered by video motion detection or alarm in. E-mail could be sent by video motion detection or alarm in.



11. Network 11.1 Network > IP Setup

GANZ	Live Set	tup			WEB Remote Viewer
⊞ Analog Output ⊡ Video ⊞ Audio ⊞ Live	IP Address Get IP address from Use the following IP a	DHCP server address	PING TEST		
FTP Event Network IP Setup Service Port	Subnet Mask Default Gateway 1st DNS 2nd DNS	152.100.130 255.255.255.0 192.168.1.1 192.168.1.1			
RTP E-mail DDNS UPnP B System				SAVE	RESET

Network Settings

Click the **Setup > Network > IP Setup** to see the current network settings.

IP Address Configuration -

The GANZ PixelPro supports both IP version 4 and IP version 6 (IPv6 will be supported in V3.00). Both versions may be enabled simultaneously, and at least one version should be always enabled.

When using IPv4, the IP address could be set automatically via DHCP, or a static IP address could be set manually. If IPv6 is enabled, your camera receives an IP address according to the configuration in the network router.

There are also options for setting up notification of changes in the IP address, and for using the Internet Dynamic DNS Service.

Notes: • To receive notification whenever the camera's IP address changes (via e.g. DHCP), configure the options for notification of IP address change. See Services below. • If your DHCP server could update a DNS server, you could access the GANZ PixelPro by a host name which is always the same, regardless of the IP address.

DNS Configuration

DNS (Domain Name Service) provides the translation of host names to IP addresses on your network.

1st DNS server

Enter the IP address of the primary DNS server for your network.

2nd DNS server

Enter the IP of the Secondary DNS, which is used if the Primary DNS server is unavailable.



How to assign IP address

Default setting is set to "DHCP" and "UPnP" function is set to ON. If your netwo rk has DHCP server and UPnP function is enabled on your PC, you can find t he network camera in "My network".

If DHCP server is not available in your network, please assign IP address as following process.

	I MAC Address I	Type	IP Address	HTTP Port	Model	SW Ver.	Status	
READY	00-1C-88-30-0A-2E	DHCP	192 168 1 25	80	ZN-DT2MA	7N2C0 2 1985 32	0 Connected	
READY	00:1C:B8:30:2D:44	STATIC	192.168.1.115	80	ZN-DT2MAP	ZN2C0.2.1985.32	0.Connected	
CEAD T	00:1C:86:30:2E:A6	DHCP	192.108.1.7	80	ZIN-DZMAP	ZN2C0.2.2023.32	0.Connected	
READY	00:1C:B8:30:00:55	STATIC	192.168.1.113	80	ZN-C2M	ZN2C0.2.1985.32	O.Connected	
READY	00:1C:B8:30:45:6E	STATIC	192.168.1.173	80	ZN-D1A	ZN2C0.2.2023.32	0.Connected	
READY	00:1C:B8:30:37:65	STATIC	192.168.1.13	80	ZN-B2MAP	ZN2C0.2.1985.32	0.Connected	
READY	00:11:5F:0B:51:25	DHCP	192.168.1.8	80	ZN-D2MTP-IR	ZN2C0.2.1149.32	0.Connected	
							F	
IP information: Address:	192 . 168 . 1 . 1	.15 I	< SEARCH > D ADMIN	_	<upgrade></upgrade>			
ubnet Mask:	255 . 255 . 255 .	0 P	Password ****		File Open Upgrade All STOP			
ateway:	192 . 168 . 1 .	1	Search every 60 s	seconas				
NS1:	192 . 168 . 1 .	1			F/W Ver	sion: Unknown		
		_ r	192 · 168 · 10	1	E Buckton	hu barranda - E		
DNS2: 0 . 0 . 0 . 0 . 1 192 . 108 . 10 . 1				• •	Pronibit S	vv Downgrade V	Backup Camera Contigs	
n de la compañía		80	192 . 168 .	10 . 255	Scheduled	l Upgrade		
etwork Type			1	1	5 💌	Unit(s) simultaneous	sly	
Change IP address Search							7 Countral	
4 ch	ange IP address						/ Searched	

- 1) Execute "MultiUpgradeTool.exe", it will search the camera on the network.
- 2) After the camera is listed in camera list, select the camera.
- 3) Type in the all network information.
- 4) Click "Change IP address" button to set network settings to the camera.

When you double-click the camera within the list, the default web browser (Internet Explorer or compatible equivalent) will open and automatically connect to the camera.



11.2 Network > Service Port

GANZ	Live	Setup				WEB Remote Viewer
	Service Port					
	F	TTP Port 80		[Def : 80, 1~65535]		
Audio	F	TSP Port 554		[Def : 554 1~65535]		
				[]		
■ FTP						
Event	Port Forwardi	ng				
Network	Port F	orwarding AUT	O DEL.			
IP Setup	E	xternal IP				
► Service Port						
RTP					SAV/E	DESET
E-mail					SAVE	RESET
DDNS						
UPnP						

Service Port

- **HTTP port-** The default HTTP port number **(80)** could be changed to any port within the range 1-65535. This is useful for simple port mapping.
- **RTSP port-** The RTSP protocol allows a connecting client to start an H.264 stream. Enter the RTSP port number to use. The default setting is **554**.

NOTE: After changing the default port numbers, the user can use the "MultiUpgradeTool.exe" to search and connect automatically.

11.3 Network > RTP

GANZ	Live Set	tup		WEB Remote Viewer
Analog Output	RTP Port Range			
	Start Port	50000	[1024~65524]	
Audio	End Port	60000	[1035~65535]	
Event	Multicast Setup			
Network	1st Stream IP	239.11.116.80		
IP Setup	Video Port	0	[0, 1024~65534: even value only]	
Service Port	Audio Port	0	[0, 1024~65534: even value only]	
▶ RTP	TTL	5	[1~255]	
E-mail				
DDNS	2st Stream IP	224.11.116.80		
UPnP	Video Port	0	[0, 1024~65534: even value only]	
	Audio Port	0	[0, 1024~65534: even value only]	
	TTL	5	[1~255]	
			SAVE	RESET

RTP port range , Multicast Setup

These settings are the IP address, port number, and Time-To-Live value to use for the video stream(s) in multicast H.264 format.

Only certain IP addresses and port numbers should be used for multicast streams.



11.4 Network > E-mail

Live Se	tup	WEB Remote Viewer
E-mail Setup		
Notification		
Frequency	5 Min	
	amte incom com	
Server	25	
Port		
Security	0N 💌	
User	user@ipcam.com	
Password	•••••	
From	user@ipcam.com	
	SAVE	
Go to:		
Setup To enable Addre	355	
Setup Event Mapping		
	Live Se E-mail Setup Notification Frequency Server Port Security User Password From Go to: Setup To enable Addres Setup Event Mapping	Live Setup Fenail Setup Notification ON Frequency 5 Min Server mtp.ipcam.com Port 25 Security ON User user@ipcam.com Password From user@ipcam.com From user@ipcam.com

You must turn Notification to 'On' and then enter the host names or addresses for your mail servers in the fields provided, to enable the sending of event and error email messages from the camera to predefined addresses via SMTP.

Note1)

Frequency : Mail server may register the sender to SPAM list when frequency is set to "1 Min". It may be better to set "5 Min" for safe side.

Note2)

From : Specify the name who sent e-mail notification. It may be better to use e-mail format like as <u>aaa@bbbb.com</u>. Some e-mail server will refuses it.

11.5 Network > DDNS

GANZ	Live Setup	WEB Remote Viewer
 Analog Output Video Audio Live FTP Event Network IP Setup Service Port RTP E-mail DDNS UPnP System 	DDNS Setup DDNS ON User Set URL http:	/ .dvrlink.net

GANZ

How to setup the DDNS:

1) DDNS set to ON.

"mac address.dvrlink.net" is registered to the DDNS server.

User can connect to the camera with: "http://mac address.dvrlink.net".

2) DDNS set to ON and user inputs "user-defined name".

"*mac address*.dvrlink.net" and "*user-defined name*.dvrlink.net" are both registered together.

User can connect to the camera using either:

"http://mac address.dvrlink.net" or "http://user-defined name.dvrlink.net".

If "*user-defined name*" is already registered, an error message is shown, try a different name.

11.5 Network > UPnP

GANZ	Live	Setup	WEB Remote Viewer
⊞ Analog Output ⊞ Video ⊞ Audio ⊞ Live	UPnP Setup	UPnP on	
E FTP E Event Network IP Setup Service Port RTP E-mail DDNS • UPnP E System			SAVE RESET

Universal Plug & Play (UPnP) allows you to find the IP camera automatically on your network.

My Network Places					
<u>File Edit View Favorites</u>	Tools	Help			<u></u>
🔾 Back + 🕥 + 🏂	Øs	earch 🜔 Folders 🛄 🕇			
Address 🗐 My Network Places					💌 ラ Go
	~	Name 🔺	Comments	Computer	Network Location
Network Tasks	۲	SharedDocs on Iit-lfov0vetec IP-CAMERA IP-CAMERA	\\IIT-LFOV0VETECJ\SharedDocs Network Camrea Box Type Network Camrea Box Type	Iit-lfov0vetecj IP-CAMERA IP-CAMERA	The Internet Local Network Local Network

In order to be able to detect the camera automatically, you must enable the UPnP function on both the camera and on your PC.

06-2014-A

Camera : Set UPnP to "ON"

PC : Open "Control Panel" >"Network Connection" Select "Advanced" >"Optional Networking Components..."



Select "Network Services" and click "Details".

Vindows Optional Networking Components Wizard Networking Services Windows Components 1 You can add or remove components of Windows XF To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details. To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details. Subcomponents of Networking Services: 🗹 🚚 Internet Gateway Device Discovery and Control Client 0.0 MB Peer-to-Peer 0.0 MB 0.0 MB Components: Simple TCP/IP Services 0.0 MB Banagement and Monitoring Tools 2.0 MB Networking Services Services Services 0.3 MB 0.0 MB Description: Displays icons in My Network Places for UPnP devices detected on the network. Also, opens the required Windows Firewall ports. Description: Contains a variety of specialized, network-related services and protocols 0.0 MB Total disk space required: Total disk space required: Space available on disk: 0.0 MB Space available on disk: 225781.6 MB Details.. 225781.6 MB <Back Next> Cancel

Then select "UPnP user Interface"

12. System

12.1 System > User

GANZ	Live	Setup				WEB Remo	ote Viewer
Analog Output	User Manager	nent					
⊡ Video	Del/Add	User ID	Password	Group	E-mail	Notification	
🗉 Audio		ADMIN	••••	Admin 👻			
	Del	User1	••••	User			
□ FTP	Add						
Event							
Network							
→ User							
Date / Time					SAVE	RESET	
Maintenance							
Information	Go to <u>Setup E-mail</u>						

Access the camera and the Configure Root Password dialog appears.

Enter the User name: **ADMIN** and password is 1234. To changed password or add a user click SETUP > SYSTEM > USER. Fill the User ID, Password and E-mail server. Select Group. Then press ADD button and click SAVE.

Note: The default administrator user name **ADMIN** is permanent and could not be deleted or altered.



12.2 System > Date & Time

GANZ	Live	Setup				WEB Remote Viewer
Analog Output	Date / Time Setur	р				
	Current Se	erver Time 20	13/02/19 15 : 08 : 48			
	D	ate format	(YY/MM/DD ▼			
	Ti	ime format 24	Hour			
■ FTP						
Event						
Network	N	ITP server PO	DOL.NTP.ORG			
		a Us ocal Time	er set manually			
User			013 /02 /19 15 :08 :40	PC Sync7 SAVE	<u></u>	
► Date / Time						
Maintenance	1	Time Zone GI	MT-05:00 America/EST	•		
Information		D.S.T OF	FF 💌			
					041/5	DEOLET
					SAVE	RESET

Date & Time Format - specify the formats for the date and time (12h or 24h) displayed in the Live View video streams. Use the predefined formats or use your own custom date and time formats.

Network Time Server - the camera will obtain the time from an NTP server every 60 minutes. Specify the **NTP server**'s IP address or host name.

Time zone setup – Select your time zone from the drop-down list.

D.S.T (Daylight Saving Time) - ON/OFF



12.3 System > Maintenance

GANZ	Live	Setup	WEB Remote Viewer
⊞ Analog Output ⊞ Video ⊞ Audio	Maintenance	System Name	GANZ
 □ Live □ FTP □ Event 		System Reboot	ОК
■ Network ■ System User	Freible F	Factory Default	OK
Date / Time Maintenance		Firmware Updates	UK
Information			
	< Note > Before upgrading fi	mware, please pre	ess Enable Firmware Upgrade button.

System Name

Choose a system name to identify the camera when using e-mail notifications.

System Reboot

Reboot the camera.

Factory Default

To reset the camera settings to the original factory default settings.

Enable Firmware Upgrade / Firmware Updates

To upgrade Firmware of the camera, follow the instruction below.

NOTE: Preconfigured and customized settings should be saved before the firmware is upgraded.

- 1) Enable Firmware Upgrade mode with clicking "OK" of Enable Firmware Upgrade menu.
- 2) The camera automatically switches to Firmware Upgrade mode.

Changing to Firmware Update Mode...







3) When Firmware upgrade menu is displayed, browse to the desired firmware file on your computer. Click OK.

GANZ	Setup	WEB Remote Viewer
☑ Network☑ SystemMaintenance	Firmware upgrade mode!! This camera is working in Firmware upgrade mode. To use normal functions, please reboot system.	
Information	Maintenance System Name GANZ System Reboot OK	
	Factory Default OK Firmware Updates Browse	
	OK SAVE	RESET

NOTE: Do not disconnect power to the unit during the upgrade. The unit will restart automatically after the upgrade has completed. (1~5 minutes)

System Reset (Factory Default Reset)

There are two ways to reset the camera back to factory default. holding down about 10-20 sec the reset button on the Network cable

Using the web browser:

- 1. Go to SETUP > System > Maintenance.
- 2. Click Factory Default Button and wait 1 minute for camera to reboot.

Using the Reset Button:

1. Holding down 15-20 sec the reset button on the Network cable.

2. Release your finger on the reset button, waiting about 1 minute for camera reboot

NOTE: The unit will now have the default IP address from a DHCP server. Use the "MultiUpgradeTool.exe" to discover and connect to the camera.





12.4 System > Information

GANZ	Live	Setup			WEB Remo	ote Vie
Analog Output	System Infor	nation				
Audio		S/W Versio	n ZN2C0.2.1149.32			
Live		Model Nam	e ZN-DT2MTP-IR			
m FTP		MAC Addres	s 00:11:5F:0B:74:50			
m Event		IP Addres	s 192.168.1.30			
		Subnet Mas	k 255.255.255.0			
		Default Gatewa	y 192.168.10.1			
System		1st DN	S 192.168.1.1			
User		2nd DN	S 0000			
Date / Time		DDNC Corry				
Maintenance		DDNS Serve	DVRLINK.NET			
▶ Information						

System Information

You can confirm the system information if the camera here.



13. Dimensions

13-1. Without Mount Bracket





13-2. With Mount Bracket



GANZ



14. Specifications

		H.264 / MJPEG Network Camera		
		Dual Stream		
		Motion Triggered Alarm/ External Alarm In		
		Multi Language GUI support		
		ONVIF Compliant		
-		Dual Power: 24VAC, PoE(802.3af)		
		SONY CMOS Sensor IMX122		
		On The Fly supported @ GOP/Bitrate/FPS stetting		
Product Features		2D DNR. (Depends on CODEC configuration) - 3D TBD		
		DPC(Defective Pixel Correction) on the fly		
		42 IR LEDs		
		Motorized Zoom, Focus and P-iris		
		True Day & Night		
		Analog Hybrid Output(Installation Only)		
		Micro SD card slot		
		Heater		
		Fan		
		Privacy Masking		
	Image Sensor	1/2.8" Sony IMX122 CMOS Sensor		
	Max. Resolution	1920 x 1080; (2MTP), 1280 x 1024; (1MTP)		
	Effective Pixels	1984(H) x 1225(V)		
	Effective Image Size	5.56mm(H) x 3.43mm(V), 6.53mm(Diagonal)		
	White Balance	ATW / MANUAL(PRESET)		
	Electronic Zoom	2 ~ 10x(Client Software)		
	AGC	Yes		
	BLC	Yes		
	Iris	Motorized Iris / MANUAL / AES		
CAMERA	Shutter Speed	1/4, 1/10, 1/12.5, 1/15, 1/20, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/240, 1/480, 1/960, 1/1024, 1/2000s		
	Slow Shutter	2x, 4x, 8x		
	Lens	Motorized Zoom and Focus lens f=3~9mm, F1.2~2.1		
	Angle of View	Horizontal ; f=3mm(Wide) 104.2°,f=9mm(Tele) 35.5°		
	Day & Night	Removable IR Cut Filter		
	S/N ratio	48.8 dB or more		
	Min. illumination	0 lux with IR LED ON		
	Video Signal	NTSC / PAL selectable		
ANALOG	Monitor Output	Composite Output(BNC), 75 ohm 1Vpp		
(Installation Only)	Coonsing Freedom	NTSC: (H) 15.734 kHz, (V) 59.94 Hz		
	Scanning Frequency	PAL: (H) 15.625 kHz, (V) 50 Hz		
		Line in, Line out		
AUDIO	in/Out	External Amplifier is needed		
	CODEC	G.711 / 8K sampling		



Network		10BASE-T, 100BASE-TX, RJ45		
	Image Compression	H.264		
	inage compression	MJPEG : Image quality: 100 Steps(Q value)		
		1920 x 1080(Full HD; B2MTP), 1280 x 1024(SXGA),		
	Becalution	1024x768(XGA), 1280 x 720(720p)		
	Resolution	640 x 480(VGA), 640 x 360(HVGAW), 320 x 240(QVGA)		
		704x480/576(4CIF), 352x240/288(CIF)		
		IPv4, HTTP, SMTP, UPnP, DNS,		
	Protocol	RTSP, DDNS, RTP, TCP, UDP, RTCP,		
		DHCP, ARP, IGMP, ICMP, NTP		
	Frame Rate	1 fps ~ 25 fps / 1 fps ~ 30 fps		
NETWORK		Internet Explorer 7.0 or above		
	Web Dreweer	Firefox		
	web Browser	Chrome		
		PDA / Smart phone		
	Security	Password Protection		
		HTTP based API		
		ONVIF Profile S		
	VMD	User set 4 ROI(Region Of Interest)		
		10 Step Sensitivity		
	Alarm Trigger	VMD, External Alarm Input		
	Alarm Event	E-mail notification(Snapshot), FTP transfer(Snapshot), SD Card(Snapshot), Jpeg image streaming with alarm		
	Power Consumption	1.63A @ AC24V, 10.3W (Heater OFF)		
POWER		220mA @ DC48V(PoE), 10.6W (Heater OFF)		
	Heater	5W (AC24V is required)		
		SDHC card compatible		
	Micro SD Card	SanDisk, Transcend, Kingstone, Toshiba:		
		2G, 4G, 8G, 16G and 32GB		
	External I/O	Alarm In x1: NO/NC Dry contact Alarm Out x1: Relay output		
	Terminais	Audio In x1, Audio Out x1		
	IR Number	42 IR LEDs		
	FAN Number	1		
OTHER	Ambient	-10°C ~ 50°C(14°F~122°F)		
SPECIFICATIONS	Temperature (Not Include Cold Start)	With Heater -40°C ~ 50°C(-40°F~122°F)		
	Ambient Humidity	less than 90%, Non-condensing		
	Materials	Aluminum Diecasting		
	Weight	2.0 kg		
	Dimensions(W x H x D)	Φ145 X 330(H) mm		
	IP Rating	IP66		

* The specifications and/or appearance of the product may change without a prior notice.





English Disposal of your old appliance

- When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/ EC.
- All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- 4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Français/French Élimination de votre ancien appareil

- Ce symbole, représentant une poubelle sur roulettes barrée d'une croix, signifie que le produit est couvert par la directive européenne 2002/96/EC.
- Tous les produits électriques et électroniques doivent être éliminés séparément de la chaîne de collecte municipale des ordures, par l' intermédiaire des installations de collecte prescrites et désignées par le gouvernement ou les autorités locales.
- Une élimination conforme aux instructions aidera à réduire les conséquences négatives et risques éventuels pour l'environnement et la santé humaine.
- 4. Pour plus d'informations concernant l'élimination de votre ancien appareil, veuillez contacter votre mairie, le service des ordures ménagères ou encore le magasin où vous avez acheté ce produit.

Deutsch/German Entsorgung von Altgeräten

- Wenn dieses Symbol eines durchgestrichenen Abfalleimers auf einem Produkt angebracht ist, unterliegt dieses Produkt der europäischen Richtlinie 2002/96/EC.
- Alle Elektro- und Elektronik-Altgeräte müssen getrennt vom Hausmüll über die dafür staatlich vorgesehenen Stellen entsorgt werden.
- Mit der ordnungsgemäßen Entsorgung des alten Geräts vermeiden Sie Umweltschäden und eine Gefährdung der persönlichen Gesundheit.
- Weitere Informationen zur Entsorgung des alten Geräts erhalten Sie bei der Stadtverwaltung, beim Entsorgungsamt oder in dem Geschäft, wo Sie das Produkt erworben haben.





Italiano/Italian RAEE: SMALTIMENTO DELLE VOSTRE VECCHIE APPARECCHIATURE

- Quando il simbolo del "Cassonetto Barrato" è apposto su un prodotto, significa che lo stesso può ricadere nei termini previsti dalla Direttiva Europea nr. 2002/96/EC in funzione dell'attuazione definita dalla Legislazione dei singoli stati membri dell'Unione Europea.
- Tutti i prodotti elettrici ed elettronici dovrebbero essere smaltiti separatamente dai rifiuti municipali, tramite appositi contenitori, approvati dall'Amministrazione Comunale o dalle Autorità Locali.
- Il corretto smaltimento delle vostre vecchie apparecchiature, contribuirà a prevenire possibili conseguenze di impatto negativo sull' ambiente e per la salute dell'uomo.
- 4. Per maggiori informazioni circa lo smaltimento delle vostre vecchie apparecchiature, siete pregati di contattare l'ufficio municipale della vostra città, il servizio di smaltimento rifiuti o il punto vendita nel quale avete acquistato il prodotto.

Polski/Polish Utylizacja starych urządzeń

- Kiedy do produktu dołączony jest niniejszy przekreślony symbol kołowego pojemnika na śmieci, oznacza to, że produkt jest objęty europejską dyrektywą 2002/96/EC.
- Wszystkie elektryczne i elektroniczne produkty powinny być utylizowane niezależnie od odpadów miejskich, z wykorzystaniem przeznaczonych do tego miejsc składowania wskazanych przez rząd lub miejscowe władze.
- Właściwy sposób utylizacji starego urządzenia pomoże zapobiec potencjalnie negatywnemu wpływowi na zdrowie i środowisko.
- 4. Aby uzyskać więcej informacji o sposobach utylizacji starych urządzeń, należy skontaktować się z władzami lokalnymi, przedsiębiorstwem zajmującym się utylizacją odpadów lub sklepem, w którym produkt został kupiony.

Português/Portuguese

Eliminação do seu antigo aparelho

- Quando este símbolo de latão cruzado estiver afixado a um produto, significa que o produto é abrangido pela Directiva Europeia 2002/96/ EC.
- Todos os produtos eléctricos e electrónicos devem ser eliminados separadamente da coleta de lixo municipal através de pontos de recolha designados, facilitados pelo governo ou autoridades locais.
- A eliminação correcta do seu aparelho antigo ajuda a evitar potenciais consequências negativas para o ambiente e para a saúde humana.
- Para obter informaçõs mais detalhadas acerca da eliminação do seu aparelho antigo, contacte as autoridades locais, um serviço de eliminação de resíduos ou a loja onde comprou o produto.

Español/Spanish Cómo deshacerse de aparatos eléctricos y electrónicos viejos

- Si en un producto aparece el símbolo de un contenedor de basura tachado, significa que éste se acoge a la Directiva 2002/96/EC.
- Todos los aparatos eléctricos o electrónicos se deben desechar de forma distinta del servicio municipal de recogida de basura, a través de puntos de recogida designados por el gobierno o las autoridades locales.
- La correcta recogida y tratamiento de los dispositivos inservibles contribuye a evitar riesgos potenciales para el medio ambiente y la salud pública.
- 4. Para obtener más información sobre cómo deshacerse de sus aparatos eléctricos y electrónicos viejos, póngase en contacto con su ayuntamiento, el servicio de recogida de basuras o el establecimiento donde adquirió el producto.



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Revision History

REV#	DATE(M/D/Y)	Comments
06-2014-A	06/17/2014	Added revision# to each pages. Minor update on Specification
		Added schedule on Day & Night menu

