

OWNER'S MANUAL

IR Bullet Camera

Please read this manual carefully before operating your set and retain it for future reference.

MODEL

LCU5300R-BN LCU5300R-BP LCU5300R Series



MFI 67417414



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

 A suitable conduit entries, knock-outs or glands shall be provided in the cable entries of this product in the end user.

- Caution: Danger of explosion if battery is incorrectly replaced. Replaced only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.
- Holes in metal, through which insulated wires pass, shall have smooth well rounded surfaces or shall be provided with brushings.

This Class A digital apparatus complies with Canadian ICFS-003

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Warning: Do not install this equipment in a confined space such as a bookcase or similar unit.

Warning: Wiring methods shall be in accordance with the National Electric Code, ANSI/NFPA 70.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warning: To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.

Caution: This installation should be made by a qualified service person and should conform to all local codes.

Caution: To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Caution: The apparatus shall not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Note:

Please make sure the product is installed appropriate places where secured from flood, such as under the eaves, to operate properly. This product is certified as IP66 standard. However, if there is any flood concerns, it is highly recommended to use an outdoor Housing When you install the camera inside an outdoor Housing, please use one of the following methods:

- Remove the front glass of Housing before installing the camera.
- To keep the front glass of Housing, remove the front cover, and then put the camera close to the front glass.

To disconnect power from mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

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.
- 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.

EEE Compliance with Directive. (for Turkey only)



LG Electronics hereby declares that this/ these product(s) is/are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/ EC, 2006/95/EC, and 2009/125/EC.

European Standards Centre:

Krijgsman 1, 1186 DM Amstelveen The Netherlands

Important Safety Instructions

- 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 dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table 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.



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

Cautions for Safe Operation

Power Supply

This camera must always be operated a DC 12 V or AC 24 V Certified/Listed, class 2 power supply only.

Handling of the unit

Be careful not to spill water or other liquids on the unit. Be cautions not to get combustible or metallic material inside the body. If used with foreign matter inside, the camera is liable to fail or to get cause of fire or electric shock.

- Remove dust or dirt on the surface of the lens with a blower
- Use a dry soft cloth to clean the body. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent then wipe dry.
- Avoid the use of volatile solvents such as thinners, alcohol, benzene and insecticides. They may damage the surface finish and/or impair the operation of the camera.

Operating and storage location

Avoid viewing a very bright object (such as light fittings) during an extended period. Avoid operating or storing the unit in the following locations.

- Extremely hot or cold places (operating temperature -10 °C to 50 °C, however, we recommend that the unit be used within a temperature range of 0 °C to 45 °C)
- Damp or dust place
- Places exposed to rain
- Places subject to strong vibration
- Close to generators of powerful electromagnetic radiation such as radio or TV transmitters.

Contents

Features 8
Accessories8
Part Names and Functions9
Connections 10
Precautions10
Connecting Display device10
Connecting RS-485 Device11
Connecting power source11
Menu Operation 12
OSD Menu control buttons12
OSD Menu Overview13
General Operation15
Exposure Settings15
White Balance settings19
Day/Night Setting20
SmartIR Setting21
Motion Detection Setting21
3D-DNR Setting22

Specifi	cation	. 3
SY	STEM Setting	.2
Sp	pecial Menu Settings	.2
Pri	ivacy Mask Setting	.2

Features

This IR Bullet Camera is designed for installation in a video surveillance system.

This manual contains instructions on how to install and manage the IR Bullet Camera in your video surveillance system.

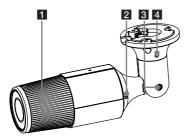
Should you require any technical assistance, please contact authorized service center.

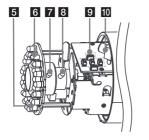
- High resolution and high sensitivity with a 6 mm (1/3 Type) CCD.
- Day & Night function.
- · HSBLC/BLC covers various light conditions.
- Weather Proof: IP66 Rating.

Accessories

Sunshield and Fixing screw	
Installation sticker	right
Wrench	
Fixing screws	

Part Names and Functions





- 1 Lens Cover
- 2 Angle adjuster
 Adjust the camera angle.
- 3 Tilt adjuster

Adjust the tilt position.

- 4 Pan adjuster
 Adjust the pan position.
- 5 IR LED
- 6 IR Sensor
- **Focus lock lever**Fixes the focus position after adjusting.
- 8 Zoom lock lever
 Fixes the zoom position after adjusting.
- 9 OSD menu control buttons
- 10 Video Out connector (BNC type)

Use this jack for checking the picture with portable monitor when install the camera.

Connections

Precautions

- Be sure to switch off the unit before installation and connection.
- The installation should be made by qualified service personnel or system installers.
- Do not expose the power and connection cables to moisture, which may cause damage to the unit.

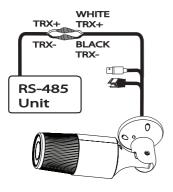
Connecting Display device

The video signal connection between the camera and the monitor.



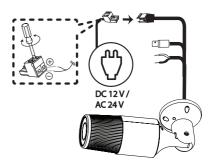
Connecting RS-485 Device

Use these ports to connect an external device of RS-485 format.



Connecting power source

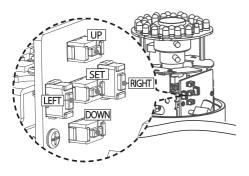
Connect a power source to the input terminal with \oplus and \ominus aligned correctly, and then connect a power source to the power input terminal as shown below.



Menu Operation

OSD Menu control buttons

This camera utilizes an on-screen user MENU. To set items on the menu, use the following buttons.



BUTTON	Description		
UP	Used to move upper direction on the menu screen. Use this button to select an item or adjust the parameters.		
DOWN	Used to move lower direction on the menu screen. Use this button to select an item or adjust the parameters.		
RIGHT	Moves the cursor to the right. Used to increment value selected in the menu. The parameter changeach time this button is pressed.		
LEFT	Moves the cursor to the left. Used to decrement the value selected in the menu. The parameter changes each time this button is pressed.		
SET	Executes selections and displays a submenu for an item with the Mark.		

OSD Menu Overview

The following table shows the list of menu items and options. You can adapt the camera to your requirements by setting up the respective items in these menus.

Main Menu	Sub Menu	Contents		
		BACKLIGHT	OFF/BLC/HSBLC	
		BRIGHTNESS 0 to 100		
		AGC	OFF/LOW/MIDDLE/HIGH	
EXPOSURE	ALC /ELC	SHUTTER	x512,, x2, AUTO, OFF, A.FLK, 1/160,, 1/120 000	
		SENS-UP	OFF / AUTO	
		EXIT	RET/TOP / END	
	ATW	-		
	AUTO	-		
WHITE BAL	AWC → SET KET	-		
	MANUAL	RED	-100 to 100	
	MANUAL	BLUE	-100 to 100	
	EXIT	RET/TOP / END		

DAY/	AUTO	BURST	ST ON/OFF			
		LEVEL	LOW/ MIDDLE/ HIGH/USER			
		DWELL TIME 3 SEC to 60 SEC		60 SEC		
NIGHT	DAY	-				
	NIGHT	BURST ON/OFF				
	EXIT		RET/TOP/END			
	POSITION ←→		1 to 7			
SMART	POSITION ↑ ↓		1 to 7			
IR	SIZE ←→		2 to 8			
	SIZE ↑↓	2 to 8				
	EXIT	RET/ TOP / END				
	OFF	-				
	ON	AREA SETUP	AREA SELECTION	1 to 8		
			STATE	ON / OFF		
			POSITION	0 to 7		
MOTION			POSITION ↑ ↓	0 to 5		
MOTION			SIZE ←→	1 to 8		
DLI			SIZE ↑ ↓	1 to 6		
		SENSITIVITY	0 to 10	00		
		DISPLAY	OFF / OUTLINE / MASK1 / MASK2			
		ALARM OUT	OFF / MES	SAGE		
		EXIT	RET/TOP / END			

3D-DNR	0 to 100	-		
	OFF			
			MASK SELECTION	1 to 8
			DISPLAY	OFF / MOSAIC / COLOR1 to COLOR8
		RECTANGLE	POSITION ←→	2 to 98
			POSITION ↑ ↓	2 to 98
			SIZE ←→	4 to 100
			SIZE ↑↓	4 to 100
	ON	CIRCLE	MASK SELECTION	1 to 4
PRIVACY MASK			DISPLAY	OFF /MOSAIC / COLOR1 to COLOR8
			POSITION ←→	0 to 100
			POSITION ↑ ↓	0 to 100
			SIZE ←→	1 to 15
			SIZE ↑ ↓	1 to 15
			RADIUS	0 to 100
		POLYGON	MASK SELECTION	1 to 2
			DISPLAY	OFF /MOSAIC / COLOR1 to COLOR8
			SHAPE	-
			POSITION	-
	EXIT	RET/TOP / END		

		_	1		
		OFF	-		
	D-ZOOM		ZOOM	x 1.0 to x 16.0	
	D-200W	ON	PAN	-100 to 100	
			TILT	-100 to 100	
	D-EFFECT	OFF / MIRROR / V-FLIP / ROTATE			
SPECIAL	SHARPNESS		0	to 100	
SPECIAL	COLOR		0	to 100	
	SYNC		IN	NT / LL	
	USER TITLE	ON / OFF			
	LANGUAGE	ENG/CHN/KOR/JAP/FRE/ITA/SPA/POR/			
	LANGUAGE	DUT/GER/POL/RUS/TUR/ARA/HEB			
	EXIT	RET/TOP / END			
	FACTORY RESET	-			
		CAMERA ID		OFF / 1 to 255	
		PRC	TOCOL	LG / PELCO-D / PELCO-P	
SYSTEM	COMMUNICATION	BAU	JDRATE	2400 bps, 4800 bps, 9600 bps	
		SAVE 8	& REBOOT	-	
	EXIT	RET/TOP / END			
EXIT		RET/TOP / END			
TUU-EN M	N Model support only INT(INTERNAL) in SYNC				

+00-EN Model support only INT(INTERNAL) in SYNC.

General Operation

Press [SET] button.
 The Main OSD menu screen appears on the monitor.



- Use [UP] or [DOWN] button to select an option then press [SET] button.Submenu appears on the monitor.
- Use [UP] or [DOWN] button to select a submenu option.
- 4. Use [LEFT] or [RIGHT] button to select a value.
- Select [EXIT] option then press [SET] to exit the setup menu. In the submenu, use [UP] or [DOWN] button to select the [RETURN] then press [SET] to return to the previous setup menu.
 - · RETURN: Return to the previous.

Exposure Settings

You can set the exposure options using the EXPOSURE menu.

- Select [EXPOSURE] option on the [CAMERA SETTING] menu.
- Use [LEFT] or [RIGHT] button to select a mode.
- 3. Press [SET] button and the EXPOSURE menu appears.

Backlight setting

Use Backlight option to view the object clearly in backlight conditions.



- Select [Backlight] option.
- Use [LEFT] or [RIGHT] button to select a mode then press [SET].
 - BLC: Camera's backlight compensation feature helps alleviate issues of visibility in high contrast areas. Set the BLC limit.

Note:

If the [DAY/NIGHT] option is set to [NIGHT] mode, the BLC mode of the [EXPOSURE] function is not available and [---] mark is displayed.

- HSBLC: Use for masking brightness of the specific area to view the subject more clearly. The HSBLC mode is automatically activated only in low luminance scene.
 - > AREA SETTING: Use [LEFT] or [RIGHT] button to select a area then use [UP] or [DOWN] button to select a [ON] or [OFF]. Press [SET] to exit the Area setting menu.
 - SGRAY SCALE: Use [LEFT] or [RIGHT] button to select a gray scale. (GRAY, D.GRAY, BLACK)
 - > USER SCALE: Use [LEFT] or [RIGHT] button to select a bright level. (5 level)
 - MASK: Use [LEFT] or [RIGHT] button to select [ON] or [OFF]. If you set the MASK to ON, the mask function is activate only when the HSBLC is automatically activated in low luminance scene.
- OFF: Not used.

BRIGHTNESS setting

You can increase the brightness of the darkened video. If you set the brightness to lower value, the image is darkened. If you set the brightness to higher value, the image gets bright.



- Select [BRIGHTNESS] option.
- 2. Use [LEFT] or [RIGHT] button to set the bright level.

AGC (Automatic Gain Control) setting

If the images are too dark, change the maximum [AGC] value to make the images brighter. But noise is increase.



- 1. Select [AGC] option.
- 2. Use [LEFT] or [RIGHT] button to select a mode.

SHUTTER (Shutter Speed) setting

Select the desired shutter speed for camera exposure. You can change the shutter speed to higher speed to capture fast-moving subjects, though the image becomes darker.

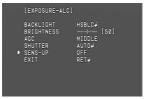
- Select [SHUTTER] option.
- Use [LEFT] or [RIGHT] button to set shutter speed.

Note:

When the SHUTTER is set to AUTO, the picture may become unstable if the camera faces a bright fluorescent light directly. Therefore, take care when installing.

SENS-UP setting

If pictures are not clear due to darkness, this SENS-UP operation would increase the sensitivity of picture.



- 1. Use [UP] or [DOWN] button to select [SENS-UP] option.
- 2. Use [LEFT] or [RIGHT] button to select mode.
 - AUTO: Adjust the sensitivity of the picture automatically.
 - > SENS-UP LIMIT: Use [LEFT] or [RIGHT] button to set the SENS-UP limit.
 - OFF: Not used.

Note:

If you set to one of the SHUTTER options except AUTO on the [SHUTTER] menu, the [SENS-UP] setting is not available and [---] mark is displayed.

White Balance settings

Select the method by which the camera shifts its output colors to compensate for the color of a light source.



- Select [WHITE BAL] option.
- Use [LEFT] or [RIGHT] button to select a mode then press [SET].
 - ATW (Auto-Tracing White Balance): Use [LEFT] or [RIGHT] button to select the ATW then press [SET] button.

- MANUAL: You can set the white balance options manually.
 - > RED: Obtains the optimum amount of red gain.
 - > BLUE: Obtains the optimum amount of blue gain.
- AWC→SET KEY: If you select the AWC→SET KEY mode, you will be able to set up the White Balance automatically using [SET] button.
- AUTO: Use [LEFT] or [RIGHT] button to select the AUTO then press [SET] button.

Day/Night Setting

```
[CAMERA SETTING]

EXPOSURE ALC#
UHITE BALANCE ATW
DAY/NIGHT AUTO#
SMARTIR#
MOIION DET OFF
30-ONE [50]
PRIVACY MASK ON#
SYSTEM#
EXIT#
```

- 1. Select [DAY/NIGHT] option.
- Use [LEFT] or [RIGHT] button to select mode for Day/Night function.
 - AUTO: You will be able to change the Day/Night mode automatically.

Note:

If you set the AGC to [OFF] on the [EXPOSURE] menu, the AUTO mode of the DAY/NIGHT function is not available and [---] mark is displayed.

- > BURST: Use [LEFT] or [RIGHT] button to select [ON] or [OFF].
- > LEVEL: Use [LEFT] or [RIGHT] button to select

- > DWELL TIME: Use [LEFT] or [RIGHT] button to select a dwell time.
- DAY: Color mode enabled.
- NIGHT: Black-and-white mode enabled.
 - > BURST: Use [LEFT] or [RIGHT] button to select [ON] or [OFF].

SmartIR Setting

SmartIR function improve the sensitivity in the low luminance. SmartIR analyze the image of the screen, when the subject is close. Then SmartIR reduce the IR LED brightness and gain to prevent saturation of the closed subject.

- Select [SmartIR] option.
- Use [UP] or [DOWN] to select an option then use [LEFT] or [RIGHT] button to adjust the option.

 - POSITION *: Moves vertical position of the prevent saturation zone.
 - SIZE ←→: Enlarge or decrease the horizontal size of the prevent saturation zone.

 SIZE ↑↓: Enlarge or decrease the vertical size of the prevent saturation zone.

Motion Detection Setting

The motion detection detects the moving objects in the scene by monitoring changes in brightness level. You can select the level of sensitivity for motion detection to 8 zone.



- Select [MOTION DET] option.
- Use [LEFT] or [RIGHT] button to select a [ON] and press [SET]. The MOTION DETECTION menu appears.
- Select [AREA SETUP] option.
 - Use [LEFT] or [RIGHT] button to select a area (1/8 to 8/8) on the [AREA SELECTION].

- Use [LEFT] or [RIGHT] button to set up the ON or OFF on the STATE.
- Use [UP] or [DOWN] to select an option then use [LEFT] or [RIGHT] button to adjust the option.
 - > POSITION ←→: Moves horizontal position of the mask.
 - > POSITION ★↓: Moves vertical position of the mask.
 - > SIZE ←→: Enlarge or decrease the horizontal size of the mask.
 - > SIZE ★↓: Enlarge or decrease the vertical size of the mask.
- 4. Use [SENSITIVITY] option to obtain the optimum detection level
- Use [LEFT] or [RIGHT] button to select the DISPLAY option.
- Use [LEFT] or [RIGHT] button to select the ALARM OUT option.

3D-DNR Setting

```
[CAMERA SETTING]

EXPOSURE ALC#
WHITE BALANCE ATU
DAY/MIGHT AUTO#
SHBETLE#
MOTION DET OFF
3D-DNR
PRIVACY MASK
SPECIAL#
SYSTEM#
EXIT#
```

- Select [3D-DNR] option.
 If pictures are not clear due to brightness, this option would reduce the noise of picture.
- 2. Use [LEFT] or [RIGHT] button to select a value.

Privacy Mask Setting

This function is aiming at the protection of personal privacy, selecting a screen part black not to be displayed in the screen. Up to 8 zones can be registered.

- 1. Select [PRIVACY] option.
- Use [LEFT] or [RIGHT] button to select a [ON] and press [SET]. The PRIVACY SETUP menu appears.
 - RECTANGLE:
 - > Use [LEFT] or [RIGHT] button to select a mask (MASK1 to MASK8) on the [MASK SELECTION].
 - Use [LEFT] or [RIGHT] button to set up the OFF, MOSAIC, COLOR 1 to COLOR 8 on the DISPLAY option.
 - > Use [UP] or [DOWN] to select an option then

use [LEFT] or [RIGHT] button to adjust the option.

- POSITION←→: Moves horizontal position of the mask.
- POSITION ★↓: Moves vertical position of the mask.
- SIZE ←→: Enlarge or decrease the horizontal size of the mask.
- SIZE ★↓: Enlarge or decrease the vertical size of the mask.

CIRCLE:

- > Use [LEFT] or [RIGHT] button to select a mask (MASK1 to MASK4) on the [MASK SELECTION].
- > Use [LEFT] or [RIGHT] button to set up the OFF, MOSAIC, COLOR 1 to COLOR 8 on the DISPLAY option.
- > Use [UP] or [DOWN] to select an option then use [LEFT] or [RIGHT] button to adjust the option.
 - POSITION ←→: Moves horizontal position of the mask.
 - POSITION ★↓: Moves vertical position of the mask.

- SIZE ←→: Enlarge or decrease the horizontal size of the mask.
- SIZE **↑ !**: Enlarge or decrease the vertical size of the mask.
- RADIUS SIZE: You can adjust the RADIUS SIZE (0 to 100).

POLYGON:

- > Use [LEFT] or [RIGHT] button to select a mask (MASK1 to MASK2) on the [MASK SELECTION].
- Use [LEFT] or [RIGHT] button to set up the OFF, MOSAIC, COLOR 1 to COLOR 8 on the DISPLAY option.
- > Use the [LEFT], [RIGHT], [UP], [DOWN], [SET] button to draw the polygon on the [SHAPE].
- > Use the [LEFT], [RIGHT], [UP], [DOWN], [SET] button to move the polygon on the [POSITION].

Note:

You can adjust the mask color manually except for color 8.

Special Menu Settings

This menu lets you adjust and set up D-ZOOM, D-EFFECT, SHARPNESS, COLOR, SYNC, USER TITLE, LANGUAGE function by yourself in the SPECIAL menu.



- Select [SPECIAL] option.
- 2. Press [SET] button and the SPECIAL menu appears.

D-ZOOM (Digital Zoom) Setting

You can select the digital zoom level.



- Select [D-ZOOM] option on the [SPECIAL] menu.
- Use [LEFT] or [RIGHT] button to select a [ON] then press [SET] the DIGITAL ZOOM menu appears. When you set to ON, the displayed image can be shaking.
- Use [UP] or [DOWN] to select a option then use [LEFT] or [RIGHT] button to select a level.
 - ZOOM: Use [LEFT] or [RIGHT] button to enlarge the screen.
 - PAN: Use [LEFT] or [RIGHT] button to move the screen

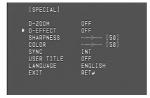
TILT: Use [LEFT] or [RIGHT] button to move the screen.

Note:

If you set the [D-ZOOM] to ON, the ZOOM level is set to [x1.0] automatically.

D-EFFECT (Digital effect) Setting

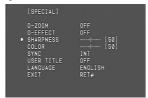
You can select the digital effect.



- Select [D-EFFECT] option on the [SPECIAL] menu.
- Use [LEFT] or [RIGHT] button to select a digital effect.
 - V-FLIP: Flip the picture vertically.
 - ROTATE: Rotate the picture. (180°)
 - MIRROR: Turn on the mirror effect.
 - OFF: Turn off the digital effect.

SHARPNESS Setting

The degree to which the boundary of the two portions is clearly distinguished.



- 1. Select [SHARPNESS] option on the [SPECIAL] menu.
- Use [LEFT] or [RIGHT] button to change a adjust the option. If you set the sharpness value to higher, the image outline becomes sharp. If you set to lower value, the image outline becomes dim.

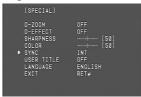
COLOR Setting

You can switch the displayed picture to gray scale or color.



- 1. Select [COLOR] option on the [SPECIAL] menu.
- Use [LEFT] or [RIGHT] button to change a adjust the option.

SYNC Setting



- Select [SYNC] option on the [SPECIAL] menu.
- 2. The [SYNC] option is set to [INT] automatically.

Note:

LCU5300-EN Model support only INT(INTERNAL) in SYNC.

USER TITLE Setting

You can use the camera identification to assign a number and character to the camera. To disappear the user title, select [OFF].

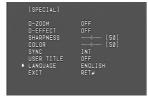
- 1. Select [USER TITLE] option on the [SPECIAL] menu.
- Use [LEFT] or [RIGHT] button to select a [ON] then press [SET]. The USER TITLE menu appears.



- Use [UP], [DOWN], [LEFT] or [RIGHT] button to select a character or number then press [SET] button.
 - CLR: Clear all entered characters and numbers.
 - POS: Move the USER TITLE position on the screen using the arrow buttons.
 - END: Confirm your selection or exit the setting
 - 1 (Blank): Inserts a space at the cursor position.
 - ✓ / →: Moves cursor to left or right.

LANGUAGE Setting

Select the viewer language for the camera setup menu and OSD information display.



- Select [LANGUAGE] option on the [SPECIAL] screen.
- 2. Press [LEFT] or [RIGHT] button to select a language.

SYSTEM Setting



- 1. Select the [SYSTEM] menu.
- Press [SET] button and the SYSTEM menu appears.
- 3. Use [UP] or [DOWN] button to select the option.
 - FACTORY RESET: To reset the camera setting to factory setting, select the [FACTORY RESET] option.
 - COMMUNICATION
 - CAMERA ID: You can use the camera identification [CAMERA ID] to assign a number to the camera. Use [LEFT] or [RIGHT] to select a CAMERA ID.
 - > PROTOCOL: Select a protocol for RS-485 communication.
 - BAUD RATE: Set the speed of communication between the camera and the RS-485 unit.

- > SAVE & REBOOT: To confirm the communication settings.
- 4. Press [SET] button to confirm your selection.

Notes:

- You need to set up [Save & Report] for save [Camera ID], [Protocol], [Baud & Rate] changes.
- The menu screen is move to top menu, after set up [Factory Reset].

Specification

ltem		LCU5300R-BN	LCU5300R-BP	
Signal System		NTSC	PAL	
Image	Sensor	6 mm (1/3 Type) CCD		
Le	ns	Vari-focal lens (f=2.8 mm to 11 mm /F1.2)		
Horizontal	Color	650 T\	/ Lines	
Resolution	B/W	700 T\	/ Lines	
Day &	Night	AUTO / DA	AY / NIGHT	
Sens-up OFF / AUTO		OFF / AUTO)(x2, x512)	
Minimum	Color	0. 03 lx @ Sen	s-up OFF, F1.2	
Illumination (30 IRE)	B/W	0 lx @ IR LED ON		
S/N Ratio		50	50 dB	
Digital	al Zoom X16		16	
Sync. S	Sync. System Internal / Line Lock		Line Lock	
Video (Dutput	1 Vp-p Composite (75 Ω)		
Electroni	c Shutter	1/60 to 1/120 000	1/50 to 1/120 000	
Motion Detection		ON / OFF		
IR LED		IR LED 32 EA, 50 M Distance, SmartIR		

Ite	em	LCU5300R-BN	LCU5300R-BP
Commu	nication	RS-485, Coaxial Communication	
RS-	485	LG, Pelco-	D, Pelco-P
Backlight Co	mpensation	BLC / HSE	BLC / OFF
Privacy	Masking	OFF / ON (Rectang	le, Polygon, Circle)
3D-	DNR	0 to	100
Prote	ction	IP66	
Power	Source	DC 12 V / AC 24 V	
Power	DC 12 V	490 mA	
Consumption	Consumption AC 24 V 390 m.		mA
Operating Tempe	erating Temperature/ Humidity -10 °C to 50 °C / 0 % RH to 80 % RH) % RH to 80 % RH
Storage Temperature/ Humidity		-20 °C to 60 °C / 0 % RH to 90 % RH	
Dimension (W x H x D)		84 mm x 83.5 mm x 320 mm	
Wei	ight	1.3 kg	

