



# RYD Security Company Ltd

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## USA Technical Partner

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# Analog Camera Series

## High Resolution Camera Installation/Operation Manual

**Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.**

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## Important Safeguards and Warning

### Important Safety Instructions

1. Read Instructions. All the safety and operating instructions should be read before the camera is operated.
2. Retain Instructions. The safety and operating instructions should be retained for future reference.
3. Heed Warnings. All warnings on the camera and in the operating instructions should be adhered to.
4. Follow Instructions. All operating and usage instructions should be followed.
5. Cleaning: Unplug the power unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Water and Moisture: Do not use the camera in any location in which it may be exposed to water or moisture. (For example, dripping, splashing, or liquid near equipment etc.)
7. Accessories: Do not place the camera on an unstable cart, stand, tripod, bracket, or table. The camera may fall, causing serious injury to a child or adult, and serious damage to the camera. Use only with mounting accessories recommended by a qualified professional, or sold with the camera. Any mounting of the camera should result in following the enclosed instructions. The camera must be installed in a location or on a piece of equipment that can withstand three times the total weight of the camera, including the lens, camera, mount, adapter, etc.
8. Any appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
9. Ventilation: The camera should never be placed near or over a radiator or heat register. The camera should not be placed in a built-in enclosed installation, such as a bookcase or rack unless proper ventilation is provided.

## Important Safeguards and Warning

10. Power Sources: The camera should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply for your installation site, consult your local professional or local power company.
11. Power Cord Protection: Power supply cords should be routed so that they are not likely to be walked on or



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pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the camera.

12. **Lightning:** For added protection for the camera during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the camera due to lightning and power line surges.

13. **Overloading:** Do not overload the wall outlet and extension cord, as this can result in a risk of fire or electric shock.

14. **Object and Liquid Entry:** Never push objects of any kind into the camera through openings, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the camera.

15. **Servicing:** Do not attempt to service the camera yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Opening the camera yourself also negates the product warranty. Refer all servicing to qualified service personnel.

16. **Damage Requiring Service:** Unplug the power unit from the wall outlet. Refer servicing to qualified service personnel under the following conditions.

- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled or objects have fallen into the camera.
- c. If the camera has been exposed to rain or water.
- d. If the camera does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the camera to its normal operation.
- e. If the camera has been dropped or the cabinet has been damaged.
- f. When the camera exhibits a distinct change in performance, this can indicate a need for service.

18. **Replacement Parts:** When replacement parts are required, be sure the service technician has used replacement parts specified by factory or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

## Important Safeguards and Warning

19. **Safety Check:** Upon completion of any service or repairs to the camera, ask the service technician to perform safety checks to determine that the camera is in proper operating condition.

## Troubleshooting Tips



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- Ensure that all power cords are attached.
  - Ensure that all power switches are in the ON position.
  - Ensure that all cables are installed in the proper location and are fully seated.

## Important Notices

### Regulatory Notices

**Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation**

### RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits of a Class A digital device, 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.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and television reception.

### Operating Notes:

Connect to DC12V power adapter.

### Operating Conditions

- Avoid viewing very bright objects (ex: light fixtures) for extended periods.
- Avoid operating or storing the unit in the following locations: - Extremely humid, dusty, hot/cold environments where the operating temperature is outside the recommended range of -4°F to 131°F (-20°C to +55°C) - Close to sources of powerful radio or TV transmitters - Close to fluorescent lamps or objects reflecting light - Under unstable light sources (may cause flickering)

## Introduction

# 1. Introduction



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These cameras are ideal for installation in commercial or residential environments.

## 1.1 Before You Begin

Please read this guide carefully before you install the camera. Keep this guide for future reference.

## 1.2 Package Contents

Check that the items received match those listed on the order form and packing slip. These analog camera series packing box normally includes:

- One fully assembled camera
- One CD for installation/operation manual
- One specification sheet
- One Hexagonal wrench
- Four screw anchors
- Four tapping screws

If any parts are missing or damaged, contact RYD Security for replacement parts.

## 1.3 Optional Accessories

12V DC Adapter

Use this Adapter for cable management when the installation requires surface mounted conduit.

## Camera Part Names

## 2. Part Names

### 2.1 Camera main body

**2.2 Sun shield:** Minimize the effects of rain and sunlight on image quality. (Bullet Cameras Only)

**2.3 Alarm IN:** Connect to device that responds to alarm signals (only for some cameras).

**2.4 Alarm Out:** Connect to device that triggers alarm signals (only for some cameras).

**2.5 Power connector:** Connects to the external power source: DC12V.

**2.6 BNC connector:** Connects to the VIDEO IN connector of the Monitor Video Connector

**2.7 Externally adjustable focal length & focus (Varifocal Lens Cameras Only)**

**2.8 OSD menu joystick and UTC option:**



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To use the OSD joystick or UTC control:

- Press the OSD joystick or UTC control straight down to enter the Main menu or a selected item.
- Move the OSD joystick or UTC control UP, DOWN, LEFT and RIGHT to navigate through menus and options.

**2.9 Mount bracket:** Connects to the Mount.

## Installation

### 3. Installation

#### 3.1 Mounting the Bracket (optional)

1. Drill mounting holes using the supplied Guide Pattern to drill four mounting holes.
2. Insert the supplied anchors into the holes.

#### 3.2 Cable Connection

1. Pass all the signal cables through the mounting bracket.
2. Connect the camera power/video cable and external power/video cable together. The mounting bracket also has a cable relief if the mounting surface cannot be penetrated.

**Note:** For static electricity protection, ensure that the rubber pad is placed inside the mounting bracket base.

#### 3.3 Modify the Camera Position (Bullet Cameras Only)

1. Loosen the two screws (left and right) first (just rotate slightly one circle or the screws will fall down).
2. Rotate the retaining ring, then you will be able to hold the camera and adjust its angle.
3. Fasten the screws and retaining ring, to ensure the desired angle.

#### 3.4 Camera Adjustment

The camera can be adjusted once the screw is fully loosened. After adjustment, be sure to lock it tightly.

**Note:** 1. Please be careful when adjusting Near/Far, so as to avoid damage to the lens (varifocal lens cameras only).

## OSD Setup Menu

### 4. OSD Menu (EE and EP series only)



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Set up menu	Default set	Menu
Lens	AUTO	Auto / Manual
Shutter / AGC	Option	Auto (High Luminance, Low Luminance)
White / Bal	ATW	ATW, PUSH, USER1, USER2, MANUAL, PUSH LOCK
HLC / BLC	Option	OFF / BLC / HLC
Pic Adjust	Option	Flip, Contrast, Sharpness, Chroma, Blemish Det, Negative
WDR(EP series only)	Full WDR	OFF / Full WDR / Light WDR (Contrast)
自适应阶再现		
Motion Det.	off	Off/on ( )
Next		
Exit		
Save All		
Privacy	option	Off/on
Day/Night	Color	Color/Auto/Mono
NR	Option	
Camera ID	OFF	OFF/ON
SYNC( Synchronize)	INT	INT
Language	English	ENGLISH / SPANISH / GERMAN / FRENCH / JAPANESE or PORTUGUESE
Camera Reset		
Back		
Exit		
Save All		

## OSD Setup Menu

### 5 OSD Menu (EG Series Only)



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1. Images		2. DAY/NIGHT
3D DNR	ON/OFF	Auto
WDR	ON/OFF	IR
Expose Mode	CENTER/overall/backlight /front light	
image enhancement	Sharpen/contrast/ saturation	
Mirror Image	ON/OFF	
rotating	ON/OFF	
Luminance	70~250	
DZOOM	50~100	
3. White Balance Control		4. Privacy
AWB	TEMPORAL	Color set
AWB	AI	Area set: 0~7
AWB	SZ	
AWB	GW	
AWB	CCT	
AWB	PRO	
5. Motion Det.		6. Language
sensitivity	High/middle/low/weak	Chinese
Area set	0~3	English
7. Default		8. Save & Exit
Default		Save All

## Menu Setting

### 6. OSD Menu Settings

#### 6.1 Entering OSD Menu





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Hold down on the joystick to open the Main menu. Use the UP/DOWN functions of the joystick to move the cursor to the item you want to modify. A selected menu item will be highlighted.



**Press UP:** Press to move the cursor up.

**Press Down:** Press to move the cursor down.

**Enter button:** Hold down on the joystick to enter the selected item or change the settings of the selected item.

**Press Right:** Press it to change the settings of the selected item.

**Press Left:** Press it to change the settings of the selected item.

**Note:** When an item is selected, it will be highlighted.

After all the settings have been satisfied, move the cursor to the "Save All" item and press the enter button. Then move the cursor to the "EXIT" item and press the enter button to exit OSD setup menu.

You can also restore the settings to factory default by moving the cursor to the "CAMERA RESET" item and then pressing the Enter button. Then move the cursor to the "Save All" item and press the Enter button

Use the OSD menu to set up the camera for optimum performance

SETUP MENU 1/3		SETUP MENU 2/3		SETUP MENU 3/3	
LENS	AUTO	PRIVACY		EZOOM	
SHUTTER/AGC		DAY/NIGHT	AUTO	DIS	OFF
WHITE BAL	ATW	NR		FOCUS ADJ	
HLC/BLC		CAMERA ID	OFF	ALARM	
PICT ADJUST		SYNC	INT	REMOTE	
WDR	FULL WDR	LANGUAGE	ENGLISH	BACK	
MOTION DET	OFF	CAMERA RESET		EXIT	SAVE ALL
NEXT		BACK	NEXT		
EXIT	SAVE ALL	EXIT	SAVE ALL		

## 6.2 SHUTTER/AGC

You can set the SHUTTER/AGC to AUTO or MANUAL. The default setting is AUTO. You can select HIGH LUMINANCE MODE OR LOW LUMINANCE MODE and adjust the BRIGHTNESS. The brightness level ranges from 0~255. The IRIS level will be controlled by camera brightness.



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### SUGGESTED USE:

**DC Lens:** When using DC lens, it is recommended to set SHUTTER/AGC to AUTO mode. Enter the AUTO submenu as shown in the figure. Move the joystick control UP or DOWN to adjust HIGH LUMINANCE MODE to AUTO IRIS.

**Manual Lens:** When using MANUAL lens, it is recommended to set SHUTTER/AGC to AUTO mode. Enter the AUTO submenu as shown in the figure. Move the joystick control UP or DOWN to adjust HIGH LUMINANCE MODE and LOW LUMINANCE setting

The shutter speed is variable from 1/50(1/60) sec to the 1/10Ksec and the AGC is selectable depending on your environment condition.

## 6.3 WHITE BALANCE

WHITE BALANCE controls color on the screen. Options include ATW (Auto White Balance), PUSH, USER1, USER2, MANUAL or PUSH LOCK mode. The default is ATW. The color temperature range is 2500°K ~ 9500°K. Enter the **ATW** submenu as shown in the figure. Select ATW when the scene illumination varies between indoor scenes and outdoor scene lighting. The SPEED and DELAY CNT have 000~255 levels to select respectively. You can set ATW FRAME as x0.5, 1.0, 1.5, 2.0 or MAX.

In **Environment** submenu, you can choose the standard, indoor or outdoor according to your shooting environment

ATW SETUP	
SPEED	016
DELAY CNT	016
ATW FRAME	x1.0
ENVIRONMENT	STANDARD
RETURN	

**Note:** When setting different value of ATW FRAME and application environment, the color temperature range of white balance will be changed. The color temperature range of x0.5 of ATW FRAME will be smaller than x2.0.

If selected MANUAL mode shown as follow figure, you can adjust LEVEL by push enter or preset the configuration.

MANUAL WB	
LEVEL UP	PUSH ENTER
LEVEL DOWN	PUSH ENTER
PRESET	
RETURN	



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If selected USER1 or USER2 mode shown as follow figures, you can adjust B-GAIN and R-GAIN value from 000 to 255

USER1 WB	
B-GAIN	029
R-GAIN	050
RETURN	

USER2 WB	
B-GAIN	045
R-GAIN	038
RETURN	

If selected PUSH mode in the appropriate position, whole area will perform white balance.

If selected PUSH LOCK mode in the appropriate position, WHITE BALANCE will perform once.

If selected Anti CR mode in the appropriate position, whole area will effectively restrain color cast.

## 6.4 HLC/BLC

Set **BLC** (Backlight compensation) function and **HLC** (Highlight compensation) function. BLC and HLC Compensation are the functions that achieve the brightness of a selected area to an optimum image level. Due to the intense light coming from the back of objects in the area expected to view, the auto iris lens tends to close and areas desired to see become dark and invisible.

Available options include OFF, ON or AUTO mode. The default is OFF.

If HLC is selected, HLC is activated automatically when the camera detects high-luminance. When selected ON, the function controls the light level to overcome severe backlighting conditions. The clip level ranges from 000 to 255 and scale has 15 levels

HLC/BLC	
HLC	OFF
CLIP LEVEL	000
SCALE	010
BLC	-
RETURN	

## 6.5 PICTURE ADJUST

PICTURE ADJUST allows you to adjust picture settings for optimal image. In the PICT ADJUST submenu, you can adjust picture Flip, Contrast, Sharpness, Chroma, Blemish detection, or Negative. The options: OFF, V-FLIP, H-FLIP, HV-FLIP are selectable in Flip line.



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PICTURE ADJUST allows you to adjust picture settings for optimal image. In the PICT ADJUST submenu, you can adjust picture Flip, Contrast, Sharpness, Chroma, Blemish detection, or Negative. The options: OFF, V-FLIP, H-FLIP, HV-FLIP are selectable in Flip line.

Contrast could be selected from 000 to 063, Sharpness is 000~015, and Chroma is 000~008.

PICT ADJUST	
FLIP	OFF
CONTRAST	038
SHARPNESS	008
CHROMA	002
BLEMISH DET	SET
NEGATIVE	OFF
RETURN	

## 6.6 WDR (EP series and EG series only)

Set WDR (Wide Dynamic Range) function. The Wide Dynamic Range (WDR) function is intended to provide clear images even under back light circumstances where intensity of illumination can vary excessively.

The default setting is FULL WDR; it also has options of OFF and LIGHT WDR. In WDR SETUP submenu, you can set CONTRAST as MID, MIDHIGH, HIGH, LOW or MIDLOW to optimize the image. The submenu of Light WDR is same with WDR SETUP submenu. Or you can select OFF to close WDR function.

WDR SETUP	
CONTRAST	MID
RETURN	

## 6.7 MOTION DETECT

MOTION DET allows detecting moving objects on the screen. The default is OFF. If selecting ON, you will enter the MOTION DET submenu. You can set 4 motion areas to detect moving objectives and adjusts the motion detection sensitivity. The value of sensitivity is from 000 to 127



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### MONITOR AREA

DETECT SENSE	111
AREA SEL	1/4
MODE	ON
TOP	002
BOTTOM	003
LEFT	004
RIGHT	005

RETURN

## 6.8 PRIVACY

PRIVACY function masks up to 8 privacy areas on the screen from video monitoring. The default setting is OFF. If selecting ON, you will enter the PRIVACY submenu. You can configure up to 8 privacy areas and set color and transparency of the privacy zones. In addition, you can enable MOSAIC function for the privacy zone.

### PRIVACY

AREA SEL	1/15
MODE	OFF
POSITION	-
COLOR	-
TRANSP	-
MOSAIC	-

RETURN

**Note:** When TRANSP is 1.00, Mosaic function is not available

## 6.9 DAY/NIGHT

Set DAY/NIGHT function. The default setting is AUTO. Move the joystick control LEFT or RIGHT to select the AUTO, COLOR, MONO mode. Enter the AUTO submenu as shown in the figure. Move the joystick control UP or DOWN to turn BURST ON/OFF and set the time before the camera switches to DAY-> NIGHT mode or NIGHT->DAY mode. The Delay CNT has a range from 000 to 255 and both two switch mode are 20 levels selectable

### DAY/NIGHT SETUP

BURST	OFF
DELAY CNT	015
DAY->NIGHT	008
NIGHT->DAY	012

RETURN



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When select DAY->NIGHT levels are set up, switchover point of brightness from COLOR mode to MONO mode under different Lux levels.

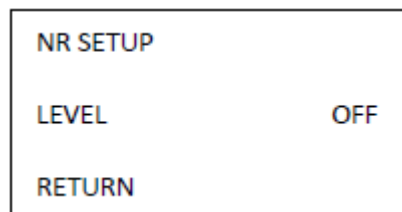
When select NIGHT->DAY levels are set up, switchover point of brightness from MONO mode to COLOR mode under different Lux levels.

If selected COLOR mode, you can force the camera to stay in DAY (COLOR) mode.

If selected MONO mode, you can force the camera to stay in MONO (NIGHT) mode.

## 6.10 Noise Reduction

Noise Reduction (NR) allows you to configure the DNR (Digital Noise Reduction) settings to reduce noise on the screen. In the NR submenu, you can adjust NR LEVEL. When you enable the NR MODE, you can choose LOW, MIDLOW, MID, MIDHIGH, HIGH LEVEL depending on your environment condition.



## 6.11 CAMERA ID

CAMERA ID displays ON or OFF. The default setting is OFF. You can set the ON mode to add a camera title up to 26 characters with 1 line appears on the top of monitor screen.

## 6.12 SYNC

The default setting is INT. This has no adjustment

## 6.13 LANGUAGE

OSD supports 5 built in multi languages. The default setting is English. Options include ENGLISH / SPANISH / GERMAN / FRENCH / JAPANESE or PORTUGUESE etc.

## 6.14 CAMERA RESET

Move to the CAMERA RESET mode then Press the ENTER key to recall factory settings.



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## 6.15 DZOOM (EG series only)

Enter DZOOM SETUP submenu shown as the follow figure. Move the joystick control LEFT or RIGHT to select PAN /TILT value for zoom in or zoom out the image. PAN range is 0~100, TILT range is 000~5110.

EZOOM SETUP	
MAG	000
PAN	512
TILT	256
RETURN	

## 6.16 ALARM

With this function, you can set a series of general parameters of the ALARM. Press joystick control to enter ALARM SETUP submenu shown as figure shows below.

ALARM SETUP	
DEFOCUS TXT	
ALARM OUT	
TRIGGER	AUX
NORMAL OUT	OPEN
RETURN	

## 6.17 SAVE ALL

Save all settings and exit.