

■ BX-391A

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## 1 Cautions:

1. To reduce the risk of electric shock, do not open the camera or perform internal maintenance by yourself. Please consult a professional service person if needed.
2. To prevent fire or electrical shock hazard, make sure that the input voltage, current, polarity and operating temperature meet the requirements of the camera.
3. Please note the operating temperature and environmental limits of the camera. Do not install in higher/lower temperatures than  $-20^{\circ}\text{C}\sim+50^{\circ}\text{C}$  ( $-4^{\circ}\text{F}\sim122^{\circ}\text{F}$ ). These cameras are not waterproof! Minimize dust and moisture erosion, otherwise camera would be damaged.
4. Avoid directing the camera to sunlight while powered on, otherwise the sensor will be damaged.
5. Do not touch the sensor surface. If any foreign objects exists use a cotton swab or lens paper to clean. if it is difficult to remove, use a neutral detergent diluted with water.

6. In order to ensure smooth and satisfactory image, the power and video cables shouldn't be too long. Please follow general AHD/Analog specifications for cables types and lengths.
7. In order to prevent the camera from falling, please install the camera on a stable surface.
8. The camera should not be placed near a radiator or heating resistor.

## 2 Product Introduction

### 2.1 Camera Introduction

PROVISION-ISR's new series of cameras have adopted a high performance CMOS image sensor which provides HD resolution and supports high resolution video output. The cameras support video transmission distance of around 400M base on Rg59 standard coaxial cable. This series can support AHD/TVI/CVI/CVBS 960H analog output.

### 2.2 Product Features

- Coaxial Cable with BNC Connector
- DIP Switch
- Auto Day/Night (ICR)
- Auto Defog, HBLC
- Digital WDR, 2D/3D NR
- Motion Detection, Privacy Mask
- AHD/TVI/CVI/CVBS Signal Selectable (by OSD)

## 3 Menu Setup

**AHD/TVI:** Click on “Iris+” button from the DVR's PTZ interface to call the OSD Menu. Use the PTZ interface to scroll through the menu and “Iris+” to confirm.

**CVI:** Click “▶” button from the DVR's PTZ interface, then click “” and press “Enter” to call the OSD Menu.

## 4 Product Installation

### 4.1 General Notes

1. Make sure the unit is powered off before installation.
2. Check that power supply voltage complies with the camera requirement to prevent damage to the camera.
3. The installation and maintenance of this product should be done by a professional. Please do not remove or modify the camera in any way.

## 4.2 Installation Tools and Information:

Prepare the required tools and instructions. Before installation please prepare the following tools:

A straight or a Phillips-head screwdriver, multi-meter, cutter, needle nose pliers, measuring tape, pencil.

## 4.3 Installation Method:

1. Check the camera for any external damage.
2. Mount the bracket or base:
  - ① For cement wall, install the expansion screws, and then mount the bracket/base.
  - ② For wooden wall use self-tapping screws to mount.

## 4.4 Setting the video output type:

The camera supports AHD/TVI/CVI/CBVS video output, And PAL/NTSC system is switabale by OSD menu

## 4.5. Setting the camera:

### a. Dome Camera

Adjust the lens position so it aims at the main monitoring point and gives a clear picture.

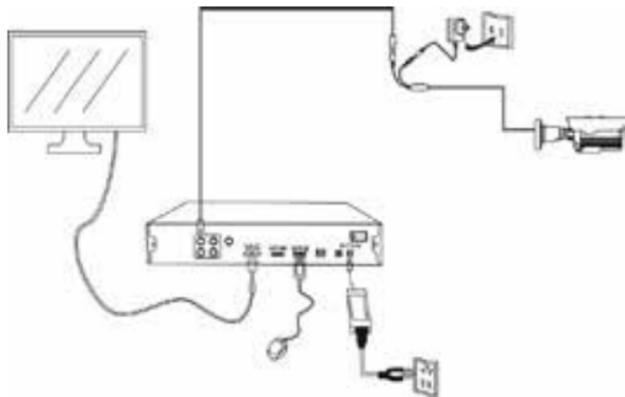
### b. Bullet Camera

Adjust the body so that the lens aims at the main monitoring point and gives a clear picture. Tighten the screws to ensure that it does not move.

**Note:**  
**The wall needs to bear at least 3 times the weight of the camera.**

## 4.6 Connection

Connection as shown in the figure below:



## 4.7 OSD Control

The OSD control is available by CoC (Control over Coax). If your AHD/TVI/CVI DVR supports this function\*, use the DVR's PTZ interface to press on "Iris+" or " " to open the OSD menu.

Navigate through the OSD menu using the PTZ direction arrows.

\* Notice: CoC function works no more than 200M by Rg59 coaxial cable

\* All of Provision-ISR's DVRs support CoC Starting from version 3.4.4

## OSD Menu List

Main Menu		Second Menu		Third Menu	
LENS	DC	Indoor			
		Outdoor	↓	MIN_SHU	MAX_SHU
EXPOSURE	↓	SHUTTER	AUTO 1/25s- 1/5000s X2-X30		
		AGC	0-15		
		SENS-UP	AUTO/OFF		
		BRIGHTNESS	1-100		
		D-DWR	OFF		
			AUTO ON		
BACKLIGHT	OFF				
	BLC	LEVEL			
		AREA			
		DEFAULT			
	HSBLC	SELECT	AREA1-4		
		DISPLAY	OFF		
			ON	POS/SIZE	
		BLACK MASK	ON/OFF		
LEVEL		1-100			
MODE		ALL DAY			
	NIGHT	AGC LEVEL	0-255		
DEFAULT					

WHITE BAL	ATW			
	AWB			
	MANUAL	BLUE	1-100	
		RED	1-100	
	OUTDOOR			
	INDOOR			
AWC-SET				
DAY/NIGHT	AUTO			
	COLOR			
	B/W			
	EXT	↓	D-N(DELAY)	0-60
			N-D(DELAY)	0-60
NR	↓	2DNR	LOW/MID/ HIGH	
		3DNR	LOW/MID/ HIGH	

SPECIAL	↓	CAM TITLE				
		D-EFFECT	↓		FREEZE	
					MIRROR	OFF
						ROTATION
						V-FLIP
						MIRROR
				NEG IMAGE	ON/OFF	
		MOTION			ON/OFF	
		PRIVACY		SELECT	AREA1-4	
				DISPLAY	COLOR	W/R/B/G
				COLOR	WHITE	
				TRANS	1.00	
				DEFAULT		
		LANGUAGE			12 choices	
		DEFECT	↓		LIVE DPC	ON/OFF
	WHITE DPC			ON/OFF		
	BLACK DPC			ON/OFF		
		DEFAULT				
RS485						
ADJUST	↓	MONITOR OUT	↓	THD/AHD/CHD/CVBS		
		SHARPNESS	↓	AUTO		
		MONITOR	↓	CRT/LCD and LSC		
		LSC		OFF		
		VIDEO OUT		PAL/NTSC		
EXIT		SAVE&END				

## 5 Specifications:

### 4 in 1 Pro camera (1080P)

BX-391A

Model	BX-391A
Image Sensor	1/2.8" 2MP CMOS Sensor
Effective Pixels	1984(H)×1225(V)
Scanning System	Progressive
Resolution	Digital:1920×1080P, Analog:960H
Min. Illumination	0.001Lux
Day & Night	EXT, Color, B&W, AUTO
IR LED	N/A
OSD Menu	Available
CoC Support	Yes
Backlight Compensation	OFF/BLC/HSBLC
S/N Ratio	≥80dB (AGC Off)
White Balance	AWB, ATW, AWC (Push), Indoor, Outdoor, Manual
Noise Reduce	3D-DNR (For Analog HD), 2D-DNR (For Analog)
Video Output	AHD/TVI/CVI/CVBS (Signal Selectable by OSD)
System Format	PAL/NTSC
Defog	Off/On
Privacy Mask	Off/On (4 Areas)
Motion Detection	Off/On (4 Areas)
D-Effect	Freeze, Mirror, Negative Image
Lens	2.8-13.5mm
Power	DC12V±10%, ~70mA
Operation temp.	-20°C~+50°C (-4°F~122°F)
Dimension	139*68*62mm
Net Weight	338g