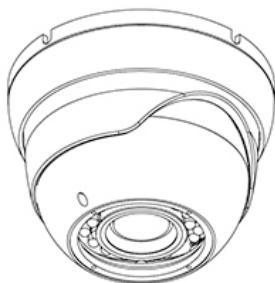




TV8ID28-8VFW
TV8ID28-8VFB

HD TVI 1080P ICR OSD 28 IR Dome Camera



USER MANUAL

FEATURES

- HD TVI - 1920 x 1080 @ 30fps
- 1/2.8" Sony CMOS, 2.0 Megapixel
- 2.8~12mm Vari-focal Lens
- 28 IR LED; IR distance 80ft / 25m
- 0.02 Lux (F1.2 , AGC ON) / 0 Lux IR on
- 12V DC; 385mA
- IP66 Rating



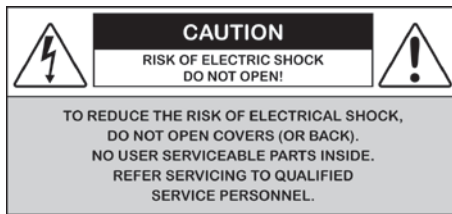
Please read Manual before attempting to use this product.

Specifications and appearance are subject to change without notice.

RoHS FC CE

TVI-11_TV1-12

R201502-V23



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems.)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Never point the camera toward the sun

Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.

2. Handle this camera with care

Avoid any shock or bumping of the camera. Improper handling could damage the camera.

3. Requires a proper operating environment

This camera is designed for indoor or outdoor use. The allowable temperature range for operation of this camera is between 14°F ~ 122°F / -10°C ~ 50°C.

4. Clean the front face or lens

It is recommended that the surface be cleaned every 3–6 months. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

5. Check the power source voltage

The power source voltage should be within the specified range. (Camera must meet the specifications). Camera must be connected to a surge protector at all times.

6. Objects and liquid entry

Never push objects of any kind into this camera as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.

7. Servicing

Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

8. Damage requiring service

Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the video product.
- If the video product has been exposed to rain or water.
- If the video product has been dropped or the cabinet has been damaged.
- When the video product exhibits a distinct change in performance.

LIMITED WARRANTY

OKINA USA products are covered under warranty for one (1) year from the date of purchase. The warranty will automatically be voided if any of the following occurs:

1. Camera sticker is removed

If the camera sticker is removed, we will not be able to confirm any information regarding when and where the product was purchased. We have no other way to verify the purchase record without the serial number on the camera sticker; therefore, it should not be removed.

2. Camera is modified in any way

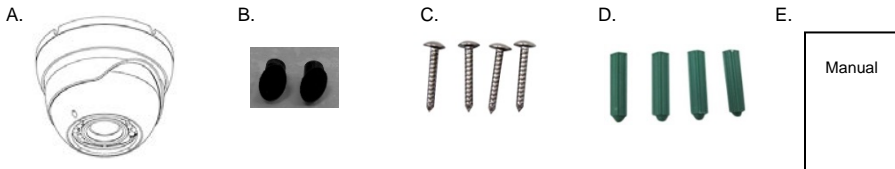
If the camera is scratched, damaged, or modified in a manner not described in this manual, the warranty will be voided immediately. It is the customer's responsibility to keep the camera in good condition.

3. Video or power cable is cut

The video cable and the power cable should not be tampered with. Cutting or modifying of the cables will result in termination of the warranty.

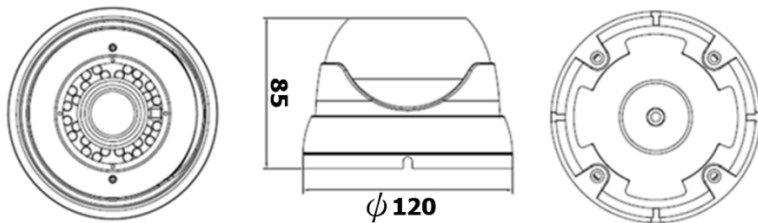
PACKAGE CONTENTS

- A. One (1) HD TVI 28 IR Dome Camera with power/video cable
- B. Two (2) Earplugs
- C. Four (4) Mounting Screws
- D. Four (4) Wall Anchors
- E. One (1) User Manual



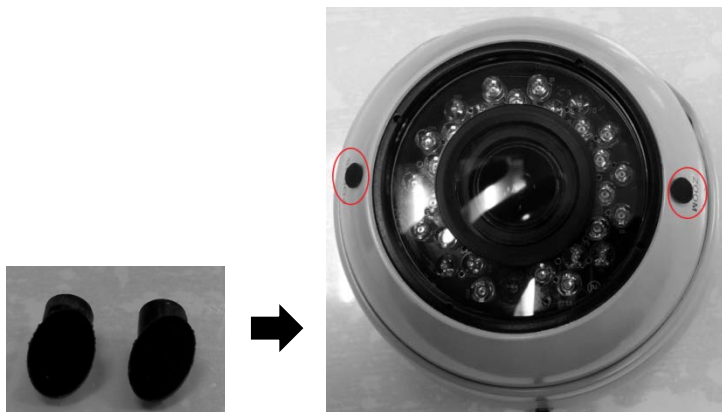
* For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

DIMENSIONS (Unit: mm)



Caution:

After adjusting the Zoom and Focus, we recommend to plug the two rubber earplugs into these two holes to avoid water from going into the camera.



MAIN MENU		
1. LENS		MANUAL
2. EXPOSURE		↓
3. BACKLIGHT		OFF
4. WHITE BAL		ATW
5. DAY&NIGHT		EXT
6. NR		↓
7. SPECIAL		↓
8. ADJUST		↓
9. RESET		↓
10. EXIT		↓

1. LENS

LENS	DC	INDOOR OUTDOOR
	Manual (Default)	N/A

Fixed or Vari-Focal lens can be installed on this camera.
 Manual – Iris is adjusted manually
 DC – Iris is adjusted automatically by the camera according to light conditions.

NOTE: A high quality megapixel lens is recommended in order to get the best picture quality result.

2. EXPOSURE

EXPOSURE		
SHUTTER		AUTO
AGC		11
SENS-UP		AUTO
BRIGHTNESS		36
D-WDR		OFF
DEFOG		OFF
RETURN		RET

EXPOSURE			
SHUTTER	AUTO, 1/60, FLK, 1/240, 1/480, 1/1000, 1/2000, 1/5000, 1/10000, 1/50000, X2, X4, X6, X8, X10, X15, X20, X25, X30 (AUTO)		
AGC	0~15 (11)		
SENS-UP	AUTO (Default)	SENS-UP	X2, X4, X6, X8, X10, X15, X20, X25, X30 (X2)
	OFF	RETURN	RET / END
BRIGHTNESS	0~100 (36)		
D-WDR	OFF / ON (OFF)		
DEFOG	OFF (Default)		
	ON	POS / SIZE	SIZE, RET, AGAIN
		GRADATION	OFF / LOW / MIDDLE / HIGH (LOW)
		DEFAULT	
	RETURN	RET / END	
RETURN	RET / END		

SHUTTER

AES (auto electronic shutter) - the camera automatically sets the optimum shutter speed.
 FL - flicker less mode avoids interference from light sources (recommended for video-iris or DC-iris lenses only).
 FIXED - forces a fixed shutter speed.

AGC

Regulate the gain or amplification of the video signal, mainly used in low-light conditions with the iris fully open.
 Can be used only when DAY&NIGHT is not set to AUTO.

SENSE UP

Allow user selectable digital show shutter speed in order to allow extra light into a camera thereby providing higher sensitivity in low light conditions.

ACCE (D-WDR)

Stands for Adaptive Contrast and Color Enhancement which is equivalent to dynamic range reduction technique.

The contrast ratio of the image can be effectively expressed and the edge information can be improved in order to enhance the overall visibility of the image.

DEFOG

Improves the clarity of images taken in poor conditions such as fog, smoke, rain or snow. Applied to live or recorded color video, it provides real time results and displays visual details that would normally have been difficult to distinguish.

3. BACKLIGHT

BACKLIGHT	OFF (default)					
	WDR	GAIN	MIDDLE, HIGH, LOW (LOW)			
		WDR OFFSET	0~60 (0)			
		RETURN	RET / END			
	BLC	GAIN	MIDDLE, HIGH, LOW, (MIDDLE)			
		AREA	POSITION	SIZE,RET,AGAIN		
		DEFAULT				
		RETRUN	RET / END			
	HBLC	SELECT	AREA1, AREA2, AREA3, AREA4			
		DISPLAY	ON (Default)	POSITION	SIZE,RET,AGAIN	
			OFF			
		LEVEL	0~100 (20)			
		MODE	ALL DAY, NIGHT (ALL DAY)			
		BLACK MASK	ON, OFF (ON)			
		DEFAULT				
		RETURN	RET / END			

4. WHITE BAL

WHITE BAL		
ATW (Default)		
AWC --> SET		
INDOOR		
OUTDOOR		
MANUAL	BLUE	0~100 (47)
	RED	0~100 (44)
	RETURN	RET / END
AWB		

5. DAY&NIGHT

DAY&NIGHT						
EXT (Default)						
AUTO	DELAY	0~60 (5)				
	D-N (AGC)	0~100 (60)				
	N-D (AGC)	0~100 (30)				
	RETURN	RET / END				
COLOR						
B/W	BURST	ON,OFF (OFF)				
	IR SMART	OFF (OFF)				
		ON	LEVEL	0~15 (5)		
			AREA	POSITION	SIZE,RET,AGAIN	
	RETURN	RET / END				
	IR LED	ON, OFF (ON)				
IR PWM	0~100 (0)					
RETURN	RET / END					
RETURN	RET / END					

6. NR

NR				
2DNR	OFF, ON (ON)			
3DNR	OFF			
	ON (ON)	SMART NR	OFF (OFF)	
		ON	SENSITIVITY	0~100 (50)
			RETURN	RET / END
		LEVEL	0!100 (85)	
		START AGC	0~100 (0)	
END AGC	0~100 (0)			
RETURN	RET / END			

SMART NR

Avoid over exposure problem when the camera is focused on a wall area.

7. SPECIAL

SPECIAL					
CAM TITLE	OFF (default)				
	ON	0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z → ← ↑ ↓ () _ _ _ □ / = & ; ~ , . ← → CLR POS END			
		D-EFFECT	FREEZE OFF, ON (OFF)		
			MIRROR OFF, MIRROR, V-FLIP, ROTATE (OFF)		
			D-ZOOM OFF (default)		
			ON	D-ZOOM	x1.0, x1.1, x1.2, x1.3, x1.4, x1.5, x1.6, x1.7, x1.8, x1.9, x2.0, x2.1, x2.2, x2.3, x2.4, x2.5, x2.6, x2.7, x2.8, x2.9, x3.0, x3.1, x3.2, x3.3, x3.4, x3.5, x3.6, x3.7, x3.8, x3.9, x4.0 ~ x62.0 (x2.0)
				PAN & TILT	D-ZOOM ←, ↑, →, ↓
				DEFAULT	
				RETURN	RET / END
			SMART D-ZOOM	OFF (default)	
			ON	SELECT	AREA1, AREA2
		DISPLAY	ON (default) POSITION ←, ↑, →, ↓		
			OFF		
		SENSITIVITY	0~60 (30)		
		D-ZOOM	x1.0, x1.1, x1.2, x1.3, x1.4, x1.5, x1.6, x1.7, x1.8, x1.9, x2.0, x2.1, x2.2, x2.3, x2.4, x2.5, x2.6, x2.7, x2.8, x2.9, x3.0, x3.1, x3.2, x3.3, x3.4, x3.5, x3.6, x3.7, x3.8, x3.9, x4.0 ~ x62.0 (x2.0)		
		TIME	0~15 (3)		
		DEFAULT			
		RETURN	RET / END		
	NEG. IMAGE	OFF, ON (OFF)			
	DIS	OFF, ON (OFF)			
	RETURN	RET / END			
MOTION	OFF (Default)				
	ON	SELECT	AREA1, AREA2, AREA3, AREA4		
		DISPLAY	OFF		
			ON (default) POSITION SIZE, RET, AGAIN		
		SENSITIVITY	0~60 (30)		
		MOTION VIEW	OFF, ON (ON)		

		DEFAULT		
		RETURN	RET / END	
PRIVACY	OFF (default)			
	ON	SELECT	AREA1~AREA8	
		DISPLAY	COLOR (default)	POSITION
			INV.	
			MOASTIC	
		OFF	TOP, LEFT, TOP RIGHT, BOTTOM LEFT, BOTTOM RIGHT, RET, AGAIN	
		COLOR	0~15 (2)	
		TRANS	0~3 (3)	
	DEFAULT			
	RETURN	RET / END		
LANGUAGE	ENG / JPN / CHN1 / CHN2 / KOR / GER / FRA / ITA / SPA / POL / RUS / POR / NED / TUR / HEB / ARB			
DEFECT	LIVE DPC	OFF		
		ON	LEVEL	
			RETURN	
			0~100 (21)	RET / END
		AUTO (default)		
	STATIC DPC	OFF		
		ON (default)	START	
			LEVEL	0~60 (5)
SENS-UP			X2, X4, X6, X8, X10, X15, X20, X25, X30 (x8)	
AGC			0~8 (0)	
	RETURN	RET / END		
RS485	CAM ID	0~255 (1)		
	ID	OFF (OFF)		
	DISPLAY	ON	CAM 001~CAM 255	
	BAUD RATE	2400,4800,9600,19200,38400 (9600)		
	RETURN	RET / END		
VERSION	140930			
RETURN	RET	RET / END		

8. ADJUST

ADJUST			
SHARPNESS	SHARPNESS	0~15 (10)	
MONITOR	LCD (default)	GAMMA	USER+Y,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00,AUTO,USER (USER+Y)
			ADAPT LEVEL
		BLUE GAIN	0~100 (55)
		RED GAIN	0~100 (55)
		RETURN	RET / END
	CRT	BALCK LEVEL	-30~0~+30 (+0)
		BLUE GAIN	-50~0~+50 (+0)
		RED GAIN	-50~0~+50 (+0)
	RETURN	RET / END	
LSC	ON,OFF (OFF)		
NTSC / PAL	NTSC, PAL		
RETURN	RET / END		

9. RESET

RESET	
FACTORY	RESET / CHANGE
RETURN	RET / END

10. EXIT

SPECIFICATIONS

Model	TV8ID28-8VFW	TV8ID28-8VFB
Color	White	Black
Image Sensor	1/2.8" Sony CMOS : 2.0 Megapixel	
Resolution	1920(H) x 1080(V) @ 25/30 FPS	
Synchronizing System	Internal	
Scanning System	2:1 Interlace	
Video Output	HD TVI	
Electronic Shutter	Auto 1/60 (1/50) ~ 1/50,000 sec / Fik	
Minimum Illumination	0.02Lux (F1.2 , AGC ON)	
IR LED	28 IR LED	
IR Distance	Up to 80ft / 25m	
Lens	2.8~12mm Vari-focal Lens	
Coaxial Cable Transmission Distance	1000ft / 300m (3C) ; 1600ft / 500m (5C)	
Twisted Cable Transmission Distance	300ft / 100m ; 65ft / 200m (TVI Balun) (Cat5e standard)	
Mechanical IR Cut	Yes	
Power Source	12V DC \pm 10% / 1A	
Power Consumption	4.62W Max. ; 385mA Max.	
IP Rating	IP66	
Operating Temperature	14°F ~ 122°F / -10°C ~ 50°C	
Storage Temperature	-4°F ~ 158°F / -20°C ~ 70°C	
Dimension	Ø4.72 x 3.35(H) inches / Ø120 x85(H) mm	
Net Weight	1.68 lbs / 0.76 kg	

**Specifications are subject to change without notice.*

PAL Version also available.