



Indoor DWDR 3-Axis Varifocal 700TVL IR Dome Camera Operation Instructions

Model No. ED640

Please read this manual first for correct installation and operation. This manual should be retained for future reference. The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

PRECAUTIONS

1. Do not install the camera near electric or magnetic fields.

Install the camera away from TV/radio transmitters, magnets, electric motors, transformers and audio speakers since the electromagnetic fields generated from these devices may distort the video image or otherwise interfere with camera operation.

2. Never disassemble the camera beyond the recommendations in this manual nor introduce materials other than those recommended herein. Improper disassembly or introduction of corrosive materials may result in equipment failure or other damage.

3. Try to avoid facing the camera toward the sun.

In some circumstances, direct sunlight may cause permanent damage to the sensor and/or internal circuits, as well as creating unbalanced illumination beyond the capability of the camera to compensate.

4. Keep the power cord away from water and other liquids and never touch the power cord with wet hands. Touching a wet power cord with your hands or touching the power cord with wet hands may result in electric shock.

5. Never install the camera in areas exposed to oil, gas or solvents.

Oil, gas or solvents may result in equipment failure, electric shock or, in extreme cases, fire.

6. Cleaning

For cameras with interchangeable lenses, do not touch the surface of the sensor directly with the hands. Use lens tissue or a cotton tipped applicator and ethanol to clean the sensor and the camera lens. Use a damp soft cloth to remove any dirt from the camera body. Please do not use complex solvents, corrosive or abrasive agents for cleaning of any part of the camera.

7. Do not operate the camera beyond the specified temperature, humidity or power source ratings. This camera is suitable for indoor operation only. Use the camera at temperatures within -10° ~ +50° (14°F~122°F) and humidity between 30% and 90%. The input power source is 12VDC. Regulated power supply required.

8. Mounting

Use care in selecting a solid mounting surface which will support the weight of the camera plus any wind, snow, ice or other loading, and securely attach the camera to the mounting surface using screws and anchors which will properly support the camera. If necessary (e.g. when mounting to drop ceilings) use a safety wire to provide additional support for the camera.

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Product Overview

Get superior performance and high resolution images in bright light or *no* light. The EverFocus ED640 uses a Sony Super HAD II Color CCD to produce high quality color images with a minimum of 630 horizontal TV lines of resolution. Combine this with digital day/night, a native low light sensitivity of 0.01 lux, and 24 IR LEDs with a range of 82 feet (depending on scene IR reflectivity), a 3-axis wall or ceiling mount indoor plastic housing and you have a cost effective camera that fits a wide variety of indoor applications. The ED640 comes with a 2.8~12mm VF AI lens that covers a field of view up to 82° wide, or can magnify images for increased detail. With low 12VDC current draw, this is the camera that you have been waiting for to create analog CCTV systems that deliver superior image clarity in a wide range of indoor applications at virtually any light level.

Features

- 1/3" Sony Super HAD II Color CCD with high resolution of 700TVL for high image clarity
- Full OSD with features like DWDR, HLC/BLC, DNR, Anti-Color-Roll and more
- 2.8~12mm VF AI lens covers from wide angle of 82° to moderate telephoto field of view
- 3-Axis camera mount for flexible mounting and positioning
- 24 *smart* IR LEDs with range of 82 feet for long distance coverage
- Smart LEDs avoid over exposure of close in objects
- Digital Day/Night for color in bright light, IR illuminated B/W in low light
- DC12V only 320mA draw

Box Contents

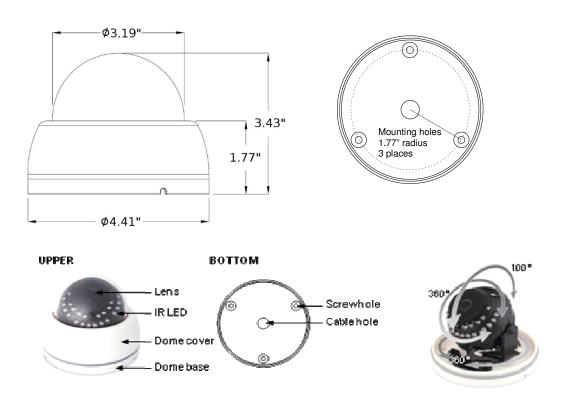
Camera User Guide Mounting Screw (3) Power adaptor pigtail Housing Opener Mounting template Video Test Point Cable

Specifications

TV System		NTSC			
Image Sensor		1/3" Sony Super HAD II Color CCD			
Effective Pixels		768Hx494V			
Resolution		700 TV Lines			
Lens		2.8~12mm VF AI			
Scanning System		525Lines, 2:1Interlace			
Scanning Frequency		15.734KHz(H),59.94Hz			
Auto Shutter Speed		1/60 to 1/100,000sec.			
Sync. System		Internal			
S/N Raito		More than 52dB (AGC off)			
OSD		5 Button Navigation. Multiple options			
OSD Language		English, Spanish, French, Portuguese, German, Polish, Japanese, Chinese			
Day & Night	Auto/Color Black & White; Digital Day/Night with programmable switch levels and delays				
Min. Illumination	0.01 lux nominal; 0 lux with IR LEDs on				
IR LEDs	24 <i>smart</i> LEDs, 850nm				
IR Range	82 feet (depends on scene IR reflectivity)				
Smart IR Control	Off/On with programmable area of interest and gain				
Auto Gain Control	Off, Low, Middle, High				
DWDR		Off/On with adjustable weight			
BLC/HLC	BLC	Off/On for two areas with programmable area of interest and gain			
	HLC	Off/Night Only/Always with adjustable level			
Gamma Correction	0.45; Display compensation option for CRT or LCD with adjustable levels				
DNR	2D DNR Off/On				
Lens Shading Compensation	Off/On, adjustable for level and image center				
Mirror	Off/On				
Negative Image	Off/On				
White Balance		AWB (2,100°k ~ 9,100°k)			
Digital Pixel Correction	Man	ual operation; programmable threshold and area			

Motion Detection	On screen indication; up to 4 programmable areas
Privacy Zones	Up to 8areas programmable for location and color
Video Output	NTSC CVBS, 1Vp-p, 75Ω
Power Supply	DC 12V±10%
Power Consumption	160mA Nominal / 320mA IR ON
Operating Temperature	14ºF ~ 122ºF ; -10℃~50℃
Storage Temperature	-4ºF ~ 140ºF ; -20℃~60℃
Operating Humidity	to 90% RH max.
Dimension	4.41"/112mm diameter, 3.43"/87mm high
Weight	7.2oz/205g
Certifications	CE/FCC

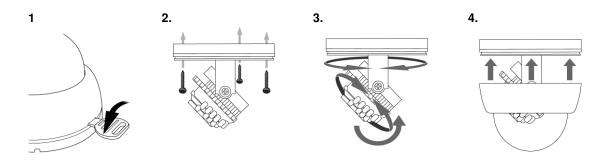
Dimensions



Installation

Warning: To prevent electrical shock, turn off the electrical power before making electrical connections. OBSERVE POLARITY when connecting 12VDC power to the camera.

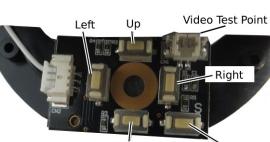
- 1. Select mounting location. Open cover using tool provided.
- 2. Place template and drill holes (5/8" minimum for wires, ~1/4" for hollow wall anchors; ~3/32" pilot hole for screws alone). Insert wall anchors if used.
- 3. Mount camera to ceiling with 3 screws and adjust camera direction.
- 4. Replace dome cover on base (snaps on).



OSD Menu Controls and Video Test Point

Press the Menu/Enter button to bring up the OSD menu. Navigate the menu with the direction keys. Select RETURN to move back to the previous level menu. When exiting the main menu, choose SAVE, NOT SAVE or RESET (factory defaults) as desired.

Use adapter cable supplied to connect test monitor to video test point.





	S (Derault value)	s shown in parenthese		(Rev. 1.1)		
MENU	SUB	MENU AND FACTOR	Y SETTING PAR	AMETERS		
	DC	BRIGHTNESS	0 ~ 255	(50)		
LENS (DC)	DC	IRIS SPEED	0 ~ 15	(5)		
	MANUAL	BRIGHTNESS	0 ~ 255	(50)		
EXPOSURE	SHUTTER	AUTO, 1/60(50), FLK, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/5000, 1/10000, 1/100000 (1/60)				
	AGC	OFF, LOW, MIDDLE	E, HIGH	(MIDDLE)		
	DWDR (OFF)	LEVEL	0 ~63	(32)		
WHITE BAL (ATW1)	ATW1					
	ATW2					
	AWC→SET					
	ANTI.CRL					
		COLOR TEMP	MANUAL, IND	OOR, OUTDOOR		
	MANUAL	BLUE (MANUAL)	0 ~ 255	(65)		
		RED (MANUAL)	0 ~ 255	(26)		
	(OFF)					
		AREA SEL.	AREA1, AREA2			
		AREA STATE	ON, OFF			
		GAIN	0 ~ 255	(128)		
	BLC	HEIGHT	0 ~ 10	(005)		
BACKLIGHT		WIDTH	0 ~ 10	(005)		
(OFF)		LEFT/RIGHT	0 ~ 15	(005)		
		TOP/BOTTOM	0 ~ 15	(005)		
		D=>N LEVEL	0 ~ 255	(177)		
	HLC	MODE	NIGHT ONLY, ALL DAY (NIGH ⁻ ONLY)			
		MASK SKIP	OFF, ON	(OFF)		
		D=>N LEVEL	160~255	(192)		
	AUTO	D→N DELAY N=> D LEVEL	1 ~ 30 0 ~ 64	(1) SEC		
		N=>D LEVEL N→D DELAY	0 ~ 84	(032) (5) SEC		
	COLOR					
		BURST	ON,OFF	(OFF)		
DAYNIGHT (AUTO)			ON, OFF	(ON)		
				0~255 (122)		
	B/W	IR SMART	HEIGHT WIDTH	0 ~ 015 (006) 0 ~ 015 (010)		
	D/ 44		LEFT/RIGHT	0~015 (010) 0~015 (002)		
			TOP/DOWN	0 ~ 015 (007)		
		IR LEVEL	HIGH, LOW	(HIGH)		

Menu Setting (Default values shown in parentheses).

MENU			SUB MEN	U AND DEFAUI	LT SETTING	
DAYNIGHT			D=>N DELAY	0 ~ 30	(1)	
(AUTO)	EXT		N=>D DELAY	0 ~ 30	(1)	
	START (Cover the lens then press enter key) → Proce			• •		
		VIEW	OFF, ON (OFF)			
				•	•	
	LS VA		0 ~ 63 (015)			
DPC	DIFF.		0 ~ 63		10)	
	AREA	A HS	0 ~ 255	(0)21)	
	AREA	A HE	0 ~ 255	(2	255)	
	AREA	A VS	0 ~ 255	(0	08)	
	AREA	A VE	0 ~ 255	(1	18)	
	CAM	TITLE	OFF, ON	(ON)	
			AREA	1~4	(AREA1)	
			AREA STATE	ON,OFF	(OFF)	
			HEIGHT	0~15	(4)	
	MOTI		WIDTH	0~15	(4)	
	(OFF)	(OFF)	LEFT/RIGHT	0~15	(3)	
			TOP/BOTTOM	0~15	(2)	
SPECIAL			DEGREE	0~255	(32)	
			VIEW	ON,OFF	(ON)	
			AREA	1~8	(1)	
	PRIVACY (OFF)		AREA STATE	ON,OFF	(ON)	
			HEIGHT	0 ~ 125	(032)	
			WIDTH	0 ~ 215	(032)	
	PR	IVACY	LEFT/RIGHT	0 ~ 220	(032)	
SPECIAL			TOP/BOTTOM	0 ~ 105	(016)	
			COLOR	0~15	(014)	
				LEVEL	0~255 (157)	
			LENS SHAD. (OFF)	H-CENTER	0~255 (074)	
		IMAGE ADJ.		V-CENTER	0~255 (053)	
					()	
			2DNR	ON, OFF	(ON)	
			MIRROR	ON, OFF	(OFF)	
			FONT COLOR	FONT	0~15 (003)	
				ID & TITLE	0~15 (003)	
			CONTRAST	0 ~ 255	(137)	
			SHARPNESS	0 ~ 31	(016)	

MENU			SUB MENU AND DEFAULT SETTING					
				CRT	PED LEVEL	0~63 (028)		
					COLOR GAIN	0~255 (192)		
			DISPLAY	LAY	GAMMA	0.3~1.0 (0.55)		
					PED LEVEL	0~63 (028)		
					COLOR GAIN	0~255 (192)		
	IMAGE ADJ.	DISPLAY		GAMMA	0.3~1.0 (0.45)			
			USER	PED LEVEL	0~63 (028)			
SPECIAL				COLOR GAIN	0~255 (176)			
			NEG.IMAGE	ON, OFF		(OFF)		
	-	GUAGE LISH)	ENGLISH,CHINESE1, ESPANOL, POLISH, DEUTSCH, PORTU FRANCAIS,JAPANESE					
	VERS	SION	00 00 00					
EXIT	SAVE, NOT SAVE, RESET							

*Depending on setting of sub menu, the default value may be changed.

EverFocus Electronics Corp.

Corporate Headquarters:

12F, No.79 Sec. 1 Shin-Tai Wu Road, Hsi-Chih, Taipei, Taiwan TEL: +886-2-26982334 FAX: +886-2-26982380 www.everfocus.com.tw marketing@everfocus.com.tw

U.S.A - California Office:

1801 Highland Avenue Units A & B Duarte, CA 91010 TEL: +1-626-844-8888 FAX: +1-626-844-8838 www.everfocus.com sales@everfocus.com

Europe - Germany Office:

Albert-Einstein-Strasse 1, D-46446 Emmerich, Germany TEL: +49-2822-93940 FAX: +49-2822-939495 www.everfocus.de info@everfocus.de

India Office:

Suite 803, Housefin Bhavan, C-21, Bandra Kurla Complex, Bandra (East), Mumbai 400051. India. TEL: +91-222-444-8791 FAX: +91-222-444-8790 www.everfocus.in

China Office:

Room 609, Technology Trade Building, Shangdi Information Industry Base, Haidian District, Beijing, China 100085 TEL: +86-10-62973336~39 FAX: +86-10-62971423 www.everfocus.com.cn marketing@everfocus.com.cn

U.S.A - New York Office:

415 Oser Avenue Unit S Happauge, NY 11788 TEL: +1-631-436-5070 FAX: +1-631-436-5027 www.everfocus.com sales@everfocus.com

Japan Office:

5F Kinshicho city Building, 2-13-4 Koto-Bashi, Sumida-Ku, Tokyo, 130-0022 Japan TEL: +81-3-5625-8188 FAX: +81-3-5625-8189 www.everfocus.co.jp info@everfocus.co.jp

UK Office:

Unit 12 Spitfire Business Park Hawker Road Croydon, CR0 4WD London: 0845 430 9999 Telford: 0845 430 8888 Fax: 020 8649 9907 uk.support@EverFocus.com



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Ihr EverFocus Produkt wurde entwickelt und hergestellt mit qualitativ hochwertigen Materialien und Komponenten, die recycelt und wieder verwendet werden können.

Dieses Symbol bedeutet, dass elektrische und elektronische Geräte am Ende ihrer Nutzungsdauer vom Hausmüll getrennt entsorgt werden sollen.

Bitte entsorgen Sie dieses Gerät bei Ihrer örtlichen kommunalen Sammelstelle oder im Recycling Centre

