

High-Sensitivity 1/2" CCD **ICD-42A**

Black & White Video Camera (EIA)



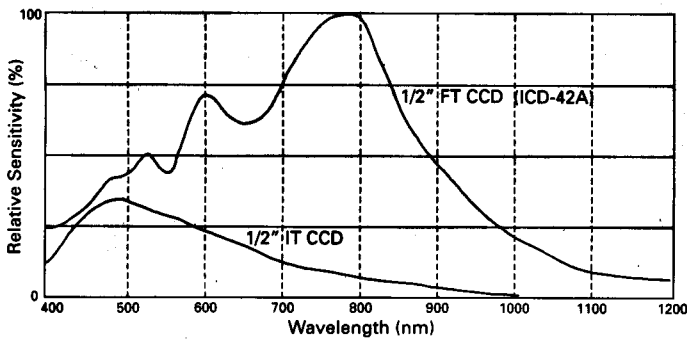
- **1/2" B/W FT CCD pickup device with a high resolution of 570 TV lines.**
- **Minimum illumination of 0.08 lux/F1.4 (0.06 lux/F1.2, 0.025 lux/F0.8)**
- **Sensitive to near-infrared light (about 800nm), so it can capture scenes under near-infrared light, which is invisible to human eyes.**
- **H. DETAIL function assures a sharp picture.**
- **Employs Auto Black Level Correction circuit to automatically compensate for decrease in visual contrast under near-infrared light conditions.**
- **BLC Backlight Compensation Circuit**
- **Accepts both DC and Video-type auto-iris lenses.**
- **Built-in Linelock (AC type), Crystallock (DC type) or GENLOCK function (option).**

The ICD-42A is a high-sensitivity, high-resolution B/W surveillance camera developed with 1/2" Frame Transfer CCD imaging and state-of-the-art video technology, specifically designed to provide an excellent response when used with Infrared lighting. It delivers a sharp picture under poor illumination conditions, as low as about 0.06 lux at F1.2 and also supports near-infrared light imaging, so it unleashes outstanding performance, especially for surveillance during night-time or other low light applications. The ICD-42A is packed with a host of performance features all built into its compact body, including Auto Black Level Correction to automatically compensate for a decrease in picture contrast when operating under near-infrared light conditions; H. DETAIL function to enhance resolution; and Backlight Compensation to effectively compensate for extreme background lighting conditions.

ICD-42A High-Sensitivity 1/2" CCD Black & White Video Camera (EIA)

Specifications

Pickup Device	1/2" Frame Transfer CCD
Picture Element	756(H) x 484(V) (Effective)
Scanning System	2:1 interlaced, 525 lines/60Hz
Sync System	Internal: Line-lock, vertical phase adjustable (AC type)/ Crystal lock (DC type)
	External: Genlock (option)
Frequency	15.734kHz (H)/59.94Hz(V)
Video Output	VS1.0Vp-p/ 75Ω
H. Resolution	570 lines
S/N	46dB(p-p/rms) under the condition at 3 lux/F1.4, Detail OFF
Illumination (Object)	Full video 2.5 lux/F1.4 Usable video 0.08 lux/F1.4, 0.06 lux/F1.2 *Measurement condition: Colour Temperature 2856° K, AGC ON, Lens F1.4, without IR cutfilter, 75% reflectance object
AGC	Built-in, ON/OFF switchable at rear panel
GAMMA	approx. 0.45 (fixed)
Peak White Clipper	approx. 120IRE (fixed)
Backlight Compensation	Built-in, ON/OFF switchable and level adjustable
Auto Iris Function	VIDEO iris/DC iris switchable
Power Requirement	AC120V±10%, 60Hz (AC120V type) AC24V±10%, 60Hz (AC24V type) DC12V±1V (DC12V type)
Power Consumption	AC120V type: 4.5W(40mA) AC24V type: 5W(330mA) DC12V type: 5.5W(450mA)
Ambient Temperature	14°F~122°F (-10°C~+50°C)
Lens Mount	CS/C mount (C Mount Adaptor included)
Connector	Video output: BNC Genlock input: BNC (option) LENS: 4P (applicable Plug: E4-191J-100)
Dimensions(WHD)	AC120V type: 2.75 x 2.36 x 6.29 inches (70 x 60 x 160mm) AC24V/DC12V type: 2.75 x 2.36 x 5.51 inches (70 x 60 x 140mm)
Weight	AC120V type: 2.18 lbs.(990g) AC24V/DC12V type: 1.72 lbs.(780g)
Accessories	Connector Plug for Auto iris lenses (E4-191J-100).....1 pce. Instruction manual.....1 set

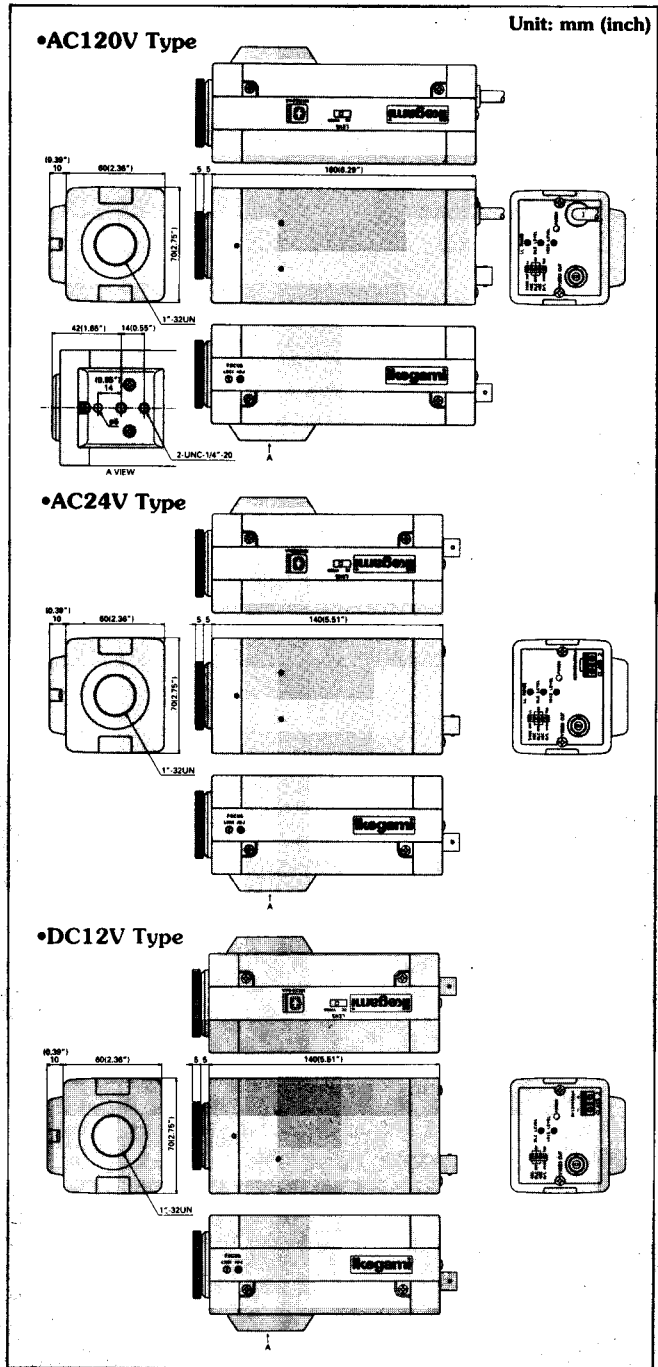


■ 1/2" FT CCD (ICD-42A)
Spectral Sensitivity Characteristics

Ikegami Comparative figure (when mounting the camera)

Lighting Condition (CCD Device face)
1.5μ W/cm²
Without: IR CUTFILTER

Dimensions



Safety agency approval: Underwriters Laboratories Inc.®

Ikegami IKEGAMI ELECTRONICS (U.S.A.), INC.

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