

# Ikegami

High Performance Color/Black & White Switchable  
1/2" Digital Processing CCD Color Camera

## ICD-848 [NTSC] / 848P [PAL]

The ICD-848[NTSC]/848P[PAL] is a multi-functional camera that can switchably output color and Black & White images according to changes in illumination. It is ideally suited for uses, such as around-the-clock surveillance in the open air where lighting cannot be installed, and in-hospital monitoring. In addition, the camera employs a high-sensitivity CCD with about 380,000 pixels (NTSC) or about 440,000 pixels (PAL), delivering reduced smear, enhanced sensitivity, and high image quality. It helps achieve surveillance under various conditions, including indoor and traffic monitoring, at a high level of sophistication.



### High Sensitivity and Color/Black & White Switching

The camera can switchably deliver color and black & white video according to changes in the surrounding illumination. It achieves a minimum subject illumination of 0.15 lx/F1.4 in color and 0.015 lx/F1.4 in black & white. The switching mode can be selected from "Auto Mode" for automatic switching according to changes in illumination; "Remote Mode" for switching in response to an extraneous control signal; and "Manual Mode" for manual switching, to meet your needs. It is ideally suited for uses, such as around-the-clock surveillance in the open air where lighting cannot be installed, and in-hospital monitoring.

Conventional Models



Captured in color under dim lighting



In color video(0.15lx)

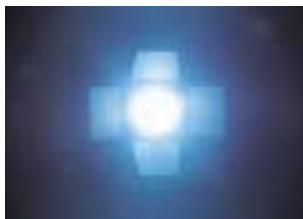
Automatically switching to black & white video when the surrounding becomes darker



In black & white video(0.015 lx)



Conventional Models



ICD-848/848P

### Low Smear

The camera features a high-sensitivity on-chip lens CCD to provide a smear level of -126dB. Appropriate video can be attained even when, for example, a car headlight is directly captured at night.



Spot BLC OFF



Spot BLC ON

### Spot Backlight Compensation

The camera is capable of specifying only a backlight area displayed on the screen and reproducing the backlight scene as an optimal image. Even when, for example, a car's number plate or a person is captured in a backlight situation, its image can be reproduced crisply.

### Auto White Balance

In addition to Auto White Balance (ATW1) of auto-tracking type, the camera also features ATW2 that is compatible with sodium-vapor lamps used for lighting on highways and other purposes. Thus, it can capture optimal video under various conditions, both indoors and outdoors.

### AES (Automatic Electronic Shutter)

The camera boasts AES capability with a sensitivity ratio of about 1:1600 (NTSC) or 1:2000 (PAL). Even with a fixed-aperture lens, the sensitivity can be adjusted appropriately according to changes in illumination of the surveillance area.

\* This feature cannot be used in geographical regions where the line frequency and the camera's vertical frequency are different from each other.

### High Picture Quality

It delivers 480 lines of horizontal resolution. Incorporating state-of-the-art digital process circuitry, the camera can reproduce a rock-solid, sharp image.

\* These photographs for an image example may differ from actual pictures on Monitor.

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## Remote Setup

The pushbutton located on the rear of the camera allows various setups to be customized. With the aid of the RCU-701 Remote Control Unit or RSU-871 (RS-232 control), you can set up the camera installed on the top of the building or at any elevated place by use of the same cable as the video coaxial.

### ● Setup Function

Local Setup(Using 5 buttons and set on OSD(On Screen Display)  
Color/Black & White Mode Select/Level Adjust, Camera ID,  
AES/Electronic Shutter, BLC ON OFF SPOT Level Adjust, GENLOCK  
Phase Adjust, DC Iris Level, INT/LL, Detail Level, AGC ON/OFF,  
White Balance, CROMA Level, PED. Level, HUE, Operation Lock

### ● Remote Setup Function

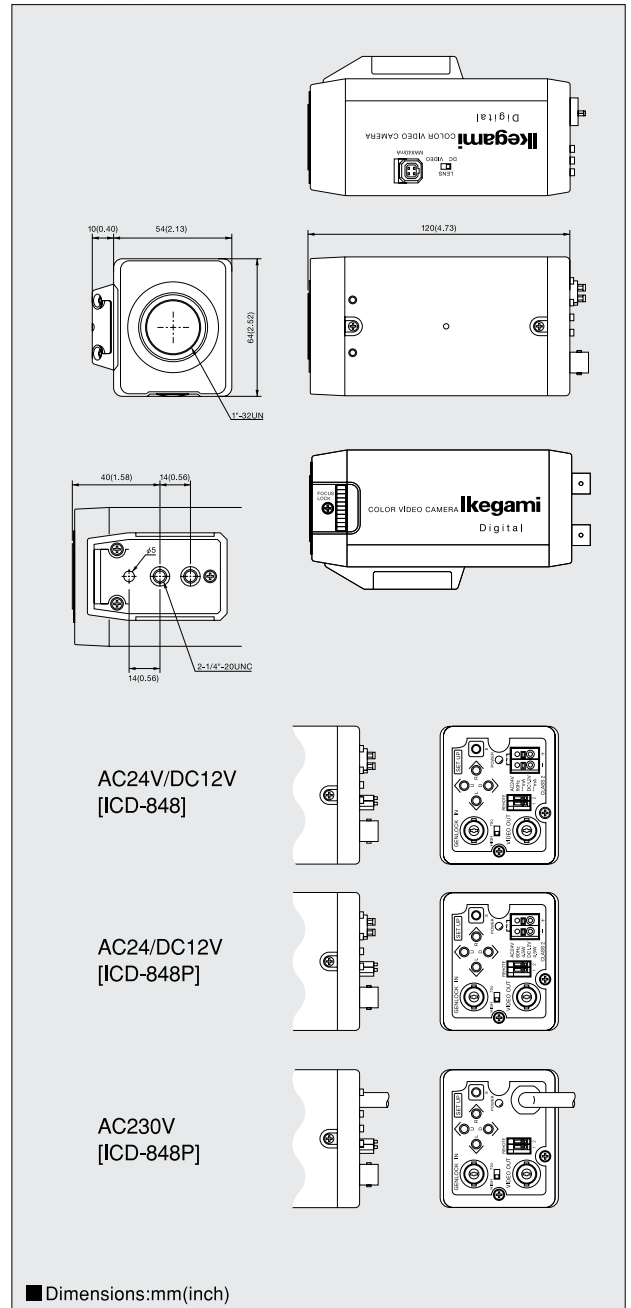
With Using RCU-701 or RSU-871(Multiplex transmission system),  
All Local Setup Functions are available.



RCU-701

## [ Specifications ]

Pickup Device	1/2" Interline Transfer CCD
Picture Elements	NTSC:768(H)×494(V), 380,000 pixels approx. PAL :752(H)×582(V), 440,000 pixels approx.
Sync System	Internal:Crystal lock or Line-Lock(AC type) External:GENLOCK
GENLOCK Input	VBS or VS 1.0Vp-p/75Ω (High impedance Switchable) BBS0.45Vp-p/75Ω (High impedance Switchable)
Video Output	VBS 1.0Vp-p/75Ω
Horizontal Resolution	480TV Line
S/N Ratio	52dB(p-p/rms) or more (Under luminance, Standard Illumination, Detail off, Weight on)
Minimum Illumination	0.15 lx/F1.4(AGC ON) [Color Mode] 0.015 lx/F1.4(AGC ON)[Black & White Mode]
Color/Black & White Select	AUTO/REMOTE/MANUAL Selectable
AGC	ON(AGC, Hyper AGC)/OFF(LOW, MID, HIGH)Switchable
White Balance	ATW/ATW2/AWC/MAN. Selectable, Adjustable
Detail Compression	Built in(Level Adjustable)
Back Light compensation	ON/OFF/SPOT Switchable
Automatic Electronic Shutter	ON/OFF Switchable AES Range NTSC :1:1600 PAL :1:2000 (Unable to work when power frequency does not meet vertical frequency of the camera)
Electronic Shutter	OFF, 1/100(1/60:PAL), 1/125, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 VARIABLE VARIABLE:1/60(1/50:PAL)~1/100,000
Auto Iris Function	Video Iris/DC Iris Switchable
Camera ID	Built in 1 line ,16 characters
Lens Mount CS	Mount(C mount Adaptor can be used)
Flange Back	Built in(Adjustment Mechanism)
Power Requirement	AC24V±10% 60Hz/DC12V(10.5V~28V) (NTSC) AC230V±15% 50Hz (PAL) AC24V±10% 50Hz/DC12V(10.5V~28V) (PAL)
Power Consumption	Less than 5W
Ambient Temperature	-10°C~+50°C(13.6°F~122.0°F)
Camera Mount	1/4"-20UNC(Upper bottom select)
Dimensions	W64×H54×D120mm(W2.52×H2.13×D4.73 inches)
Weight	AC24V/DC12V: 580g Approx.(1.28 lbs) AC230V:810g Approx.(1.79 lbs)
Input/Output Connector	VBS Output:BNC GENLOCK Input:BNC LENS:4P(E4-191J-100) Color/Black & White Switchable Input: 2P push in terminal AC24V/DC12V Input:2P push in terminal
Accessories	Operation Manual C Mount Adaptor Auto Iris Connector (E4-191J-100 or Equivalent)



Design and specifications are subject to change without notice.

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