Ikegami

GIVING NEW VALUE TO IMAGES

HYPER® DYNAMIC

*Hyper Wide Light Dynamic*

# Color Camera Series

*Hyper Wide Dynamic, Super Cube Color Camera*

## ISD-A10

*Hyper Wide Dynamic, High Sensitivity Color Camera*

## ISD-A20

*Hyper Wide Light Dynamic Range,*
*True Day / Night Color Camera*

## ISD-A21

# Hyper Wide Light Dynamic
# Color Camera Series

***As the newest addition to the Ikegami Hyper Dynamic Camera Series employs an extremely wide light dynamic range enabled by the newest Pixim DPS technology and Ikegami's digital processing technology.***
***It is a Hyper Wide Light Dynamic Range Camera that reproduces a clear and natural image even in locations where there is a significant difference in the intensity of illumination, such as window areas, or in lobby entrances of buildings.***

## Hyper Wide Dynamic range

*The Pixim DPS (Digital Pixel System) sensor combined with Ikegami's original digital processing technology enables a 95dB extremely wide dynamic range. The joining of these two technologies allows for the reproduction of the clearest and most natural images. It also resolves the unnatural Picture Shake that is often seen in Non-DPS wide dynamic range cameras.*

Entrance scene

Conventional type camera

ISD-A Series

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Casino scene

Conventional type camera

ISD-A Series

*

View from inside of ATM

Conventional type camera

ISD-A Series

*

## No Vertical Smear

*Because the camera utilizes a DPS non CCD Sensor, there is no vertical smear., It is capable of capturing an object, without vertical pixel overload, in strong direct light such as vehicle headlights while parked or moving on the road.*

Conventional type camera

ISD-A Series *

## Electronic Sensitivity Control Function

*As the ISD-A Series are equipped with an electronic sensitivity control function of up to 32 times, it covers the scene which requires high sensitivity.*

Conventional type camera

ISD-A Series *

## Additional functions

*It is selectable a monitor display mode which delivers optimum video picture in accordance with a CRT monitor or a LCD monitor. (Not on ISD-A10)*
*The ISD-A10/A20 features functions such as an intelligent back light compensation (BLC) with sensing area control function, various automatic white balance controls including extended coverage of sodium lighting at ATW-ex, Digital noise reducer, Optimum monitor select function for CRT type or Flat display type (Not on ISD-A10), two-way auto-iris control function, and AC line lock or internal lock selection, all essential in monitoring applications.*

*Hyper Wide Light Dynamic, Super Cube Color Camera*

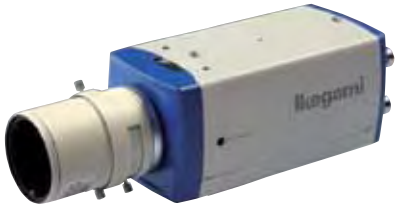
## *ISD-A10*

**Compact body of Super Cube**
The ISD-A10 comes with a compact body of just W2-1/2 X H2-1/2 X D2 inches, giving it the flexibility for a broad array of locations and equipment, such as ATM machines and outdoor housings.

**Superior Picture Quality**
The camera delivers 480 TV lines of horizontal resolution with a signal-to-noise ratio of over 50 dB. It boasts superior picture quality and allows for the reproduction of clear color images.

*Hyper Wide Light Dynamic, High Sensitivity Color Camera*

## *ISD-A20*

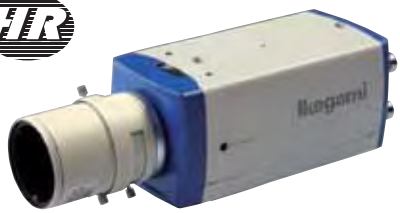


The ISD-A20 delivers 480 TV lines of horizontal resolution with a signal-to-noise ratio of over 50 dB. It boasts superior picture quality and allows for the reproduction of clear color images.

It achieves a minimum object illumination of 0.5lux /F1.4 (0.37lux / F1.2). In addition, the camera is equipped with an electronic sensitivity control function of up to 32 times and it is able to capture an image with a light level as low as 0.015 lux / F1.4 (0.012lux / F1.2).

*Hyper Wide Light Dynamic Range,*
*High Sensitivity and High Performance True Day / Night Color Camera*

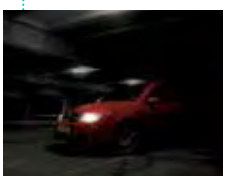
## *ISD-A21*



The ISD-A21 delivers 520TV lines of horizontal resolution with a signal-to-noise ratio of over 50 dB. It boasts superior picture quality and allows for the reproduction of clear color images.

It achieves a minimum object illumination of 1lux /F1.4 (0.75lux / F1.2) in color and 0.1lux/F1.4 (0.75lux/F1.2) in monochrome. In addition, the camera is equipped with an electronic sensitivity control function of up to 32 times and it is able to capture an image with a light intensity as low as 0.03 lux / F1.4 (0.023lux / F1.2) in color and 0.003lux/F1.4 (0.0023lux/F1.2) in monochrome.

Not only does the ISD-A21 produce a high quality daytime color image, but also a clear night time monochrome image is delivered due to the True Day/Night change-over system by which it changes to a monochrome mode automatically in low light conditions. It also can be controlled by a switch through external sensors, etc.

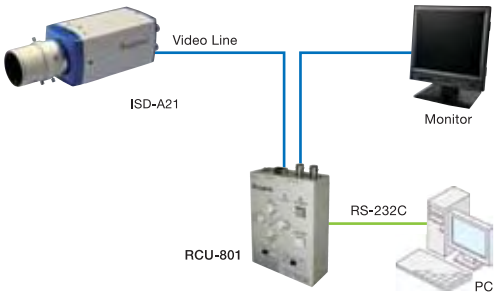


Color mode

Monochrome mode *

## *New Remote Control Unit, RCU-801*
## *Coax Remote or RS-232C Remote*

This unit is a control box for camera setups for various parameters using OSD, On-Screen-Display. And not only conventional Video coax cable connection controls, but also the provision for RS-232C link application is on. This DC12V or AA Battery operated control box makes camera setup and adjustment work very easy and effort-less even in difficult places for camera installation.




HYPER DYNAMIC **Dome Type Color Camera Series**

Model ISD-A30 is the dome camera of the same Hyper Wide Light Dynamic Color Camera Series. The polycarbonate vandal resistant type is available as ISD-A31.

ISD-A30

ISD-A31

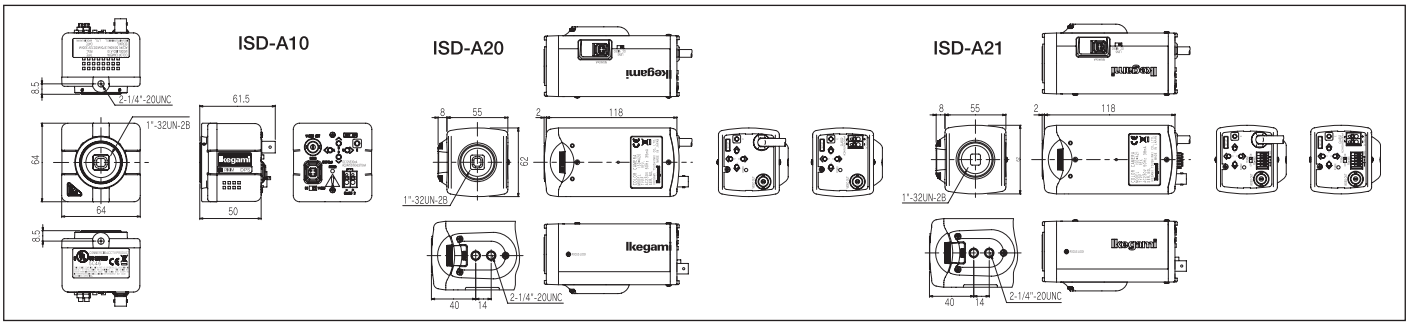
* No Actual Image

# *Hyper Wide Light Dynamic* Color Camera Series

## ■ Specifications

| | ISD-A10 | ISD-A20 | ISD-A21 |
|---|---|---|---|
| Image Sensor Device | 1/3 inch PIXIM DPS sensor | | |
| Pixel Numbers | 720(H) X 540(V), 390,0000 pixels, approx | | |
| Scanning System | NTSC: 525 lines at 60Hz, 2:1 interlace, PAL: 625 lines at 50Hz, 2:1 interlace | | |
| Sync System | Crystal controlled internal Lock or AC line lock, Selectable | | |
| Video Output | VBS 1.0Vp-p / 75 Ω | | |
| Horizontal Resolution | 480 TV Lines or better | | 520 TV Lines or better |
| S/N Ratio | 50dB or better (On Ych. Standard Illumination, Detail OFF, AGC Off) | | |
| Minimum Illumination | 1 lux /F1.4, 0.75Lux/F1.2<br>Hyper AGC ON[50IRE] | 0.5 lux, at F1.4, 0.37 lux, at F1.2<br>Hyper AGC ON[50IRE] | Color:1 lux at F1.4, 0.75 lux/F1.2, AGC ON [50IRE]<br>Monochrome:0.1 lux at F1.4, 0.75 lux/F1.2<br>AGC ON [25IRE] |
| | Electronic Sensitivity Control On,<br>Max. 32 times multiplication<br>0.03 lux/F1.4, 0.022Lux/F1.2<br>[50IRE] | Electronic Sensitivity Control On,<br>Max. 32 times multiplication<br>0.015lux/F1.4, 0.012lux/F1.2<br>[50IRE] | Electronic Sensitivity Control On,<br>Max. 32 times multiplication<br>Color:0.03 lux, at F1.4 (0.023 lux/F1.2) [50IRE]<br>Monochrome:0.003 lux at F1.4 (0.0023 lux/F1.2) [25IRE] |
| White Balance control | Built-in, ATW/ ATW-ex / AWC / Manual, Selectable | | |
| Hyper Wide Light Dynamic Range control | Built-in, 36 Steps Level Adjustment | | |
| AGC | Built-in , ON(AGC, HYPER AGC)/ OFF(LOW,MID, HIGH Selectable) | | |
| Electronic Sensitivity Control | Built-in, Max. 32 times Multiplication | | |
| Digital Noise Reduction | Built-in | Built-in, On or Off Selectable | |
| Monitor Output Selection | — | Built-in for either CRT type or LCD type | |
| Day/Night Change over | — | | Built-in, Auto/Manual Selectable |
| Iris level | Built-in, Level Adjustment | | |
| Auto Iris Function | Video Iris or DC Iris Switchable | | |
| Camera ID Function | Built in (1 line 24 Alfa numeric characters) | | |
| Lens Mount | CS Mount (C mount Adaptor as option) | | |
| Lens Flange Back | Built in and Adjustable | | |
| Power Requirement | AC24V±10% (50Hz/60Hz), DC12V (10.5V~15V) | | |
| Power Consumption | AC24V±10% (50Hz/60Hz), DC12V (10.5V~15V)<br>AC24V:5.2Wapprox. | DC12V:3.0W approx.<br>AC24V:3.2W approx. | DC12V:3.5W approx.<br>AC24V:3.7W approx. |
| Operating Temperature | -10°C ~ +50°C (No condensation) | | |
| Camera Mount | 1/4"-20UNC x2, (Upper or Bottom, Selectable) | | |
| Dimension | W64 X H64 X D61.5 mm(W2.52 xH2.52 x D2.42 inches) | W62 x H55 x D122 mm (W2.44 x H2.16 x D4.80 inches) | |
| Weight | 350g approx.(0.77 lbs) | AC24VDC12V:420g approx. (0.92 lbs) | AC24V/DC12V:420g approx. (0.92 lbs.) |
| Input/Output Connector | VIDEO OUT: BNC<br>Lens Iris Control : 4P (applicable plug:E4-191J-150 type or equivalent)<br>AC24V/DC12 Input: 2P push-in type terminal<br>RS-485 Input/Output: 5P terminal | | VIDEO OUT: BNC<br>Lens Iris Control : 4P (applicable plug:E4-191J-150 type or equivalent)<br>AC24V/DC12 Input: 2P push-in type terminal<br>RS-485 Input/Output: 5P terminal |
| Accessories | Instruction Manual | | |

## ■ Dimensions




**Local Setup**
Camera ID, AGC On and Off , LL/INT Sync selection and phase adjustment, Auto white balance for ATW/ATWex/AWC/Manual Selection and adjustment, Hyper wide dynamic range level, Iris level, Electronic Sensitivity control On and off, BLC Spot area setting, Detail level management, Chromatic level control and Day/Night mode selection (only ISD-A21) and thresh-hold control can be made on OSD at rear panel.

**Remote Setup Function( only ISD-A21)**
Remotely controlled via I-LAN over RS-485 link on OSD.
It is available to set up by optional remote set up unit RCU-801(RS-232C is also available) and RCU-701.

* This product is made of ECO friendly components based upon the Company policy and Corporate Social Responsibility to help Global Environmental solution for energy conservation and environmental sustainability, and all the components used in this product are Non-hazardous, Toxic Free, Non-Lead materials and parts conforming with Japan's Green Product Regulation, EU's RoHS Direction, and other environmental and hazardous chemical substances related regulations and laws.

* Design and specifications are subject to change without notice.

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