## Specifications

| | |
|---|---|
| Image Sensor | 2/3"CMOS Sensor |
| Effective Pixels | 1280(H) x 720(V) |
| Synchronization | Internal |
| Video Output | HD: HD-SDI 1080 (59.94i/30p/29.97p), 720 (60p / 59.94p / 30p / 29.97p) |
| Horizontal Resolution | 650TV lines or more |
| Minimum Illumination | In color mode: 0.0006lux at F1.950% Theoretical value / in monochrome mode: 0.00015lux at F1.950% Theoretical value. |
| **PCS-7500HD OPTIONS** | |
| Focal Length (Lens part) | 9.6mm-240mm 1:1.9 (various range lenses available) |
| PTZ Mechanism | Pan: 360°Endless / Tilt: +20°(Up) ~ -70° (Down) |
| Communication Command | Pelco D, I-LAN (Ikegami protocol) |
| AGC (Auto Gain Control) | ON (AGC/Hyper-AGC) / OFF (LOW / MIDDLE/ HIGH) |
| Electrical Shutter | OFF, 1/301/10000, Variable |
| Slow Shutter | X1, x2, x4, x6, x8, x12, x16, x24, x32, x64, OFF / AUTO (S/N,STD,MOVE) / MANUAL |
| Backlight Compensation | ON/OFF/SPOT |
| White Balance | ATW1, ATW2, AWC, Manual |
| WDR (Wide Dynamic Range) | OFF/ON |
| De-fog | OFF/ON |
| Noise Reduction | OFF/LOW/HIGH |
| Electrical Zoom | x1, x2, x3, x4, x5, x6, x7, x8, x9, x10 (Maximum) |
| Auto Focus Function | Available |
| **Power Consumption** | |
| ISD-2500HD | approx. 7W |
| PCS-7500HD | approx. 230W |
| **Operating Temperature** | |
| ISD-2500HD | -10 to 50 degrees C |
| PCS-7500HD | -20 to 50 degrees C |
| Operating Humidity | 30 to 90% (non-condensing) |
| **Dimension** | |
| ISD-2500HD | 78 (W) x 58 (H) x140 (D) mm (without projections) |
| PCS-7500HD | 314(W) x 444(H)x 495(D) mm |
| **Weight** | |
| ISD-2500HD | Approx. 650g or less |
| PCS-7500HD | Approx. 21kg |

# Ikegami
*Professional for Professionals!*



## Ikegami Electronics (U.S.A.), Inc.

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Distributed By:

# Ikegami
**HD** *High Definition*

## 2/3" Xtreme Starlight Camera

## Can you see COLOR in the dark at 30fps?

**BENEFITS**

Our newly developed 2/3" format CMOS sensor comes to be a big differentiator factor when it comes to Signal-to-noise ratio to other similar cameras. This CMOS sensor enables acquisition of clear images under ultra-low light conditions, at 30fps real time, down to an amazing 0.0006Lx minimum scene illumination performance in color mode and 0.00015Lx minimum scene illumination performance in monochrome.

**FEATURES**

- Very Low noise & Natural Moving Image
- Capture moving objects in real time at 30fps
- No Cooling System required
- Built-in De-fog Function
- Wide Dynamic Range (WDR)

*Professional for Professionals!*

# IKEGAMI ISD-2500HD

The recently developed 2/3", 1.47 Megapixel CMOS sensor in ISD-2500HD is excellent in ultra-low light sensitivity and wide dynamic range especially with Color reproduction, pushes the state-of-the-art in end to end digital, HDTV Camera.

The sensors include significant circuitry within the sensor itself, resulting in a digital video interface between sensor and Ikegami camera DSP, all in a very small device with low power consumption. HD-SDI (59.94i, 50i, 30p, 25p) and NTSC or PAL (4:3) can be output simultaneously. RS-485 also available.

Without using a slow shutter function, it enables acquisition of clear images under ultra low light conditions down to an amazing *0.0006 lux minimum scene illumination performance in color mode*, (*0.00015 lux minimum scene illumination in B&W*).

The ULL camera CMOS sensor was built to the highest quality standards and latest technology development to be able to deliver real-time images in color in scenes with limited illumination. The CMOS sensor is free from the weakness of imaging accumulation, much less noise is generated and it also helps to capture moving objects in real time at *30fps* in the dark.

Wide Dynamic Range function in ISD-2500HD provides a clear and high quality pictures even in the dark and bright areas by adjusting exposure settings, therefore achieving a corrected image with clear details results.

Integrated *De-fog Function* corrects distortion images caused by bad weather so that clear images can be acquired improved under harsh weather conditions.

Ikegami's ISD-2500HD Ultra-low Light Camera comes with various choices of lenses to choose from and a variety of housings including an exterior IP66 with integral PTZ as to fit the requirements for the tasks it will undertake.

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## ISD-2500HD Options

Broadening the scope of your surveillance needs Ikegami offers options to facilitate your surveillance implementations with our PCS-7500HD.

**Choice of Housings:**

**IKH-47244**
sturdy and large slide extractable aluminum unit designed to fit combinations of 1/2 inch 1/3 inch and 1/4 inch cameras and with optics of various types
- Interior usable area 5.2x4.0x10.7 in (WxHxL) Allows for most cameras with large lenses (see data sheet for further details).
- IP66/1P67, Slide extractable body
- Optional, high efficiency cooling system for IP cameras and high environmental temperature.
- Optional reinforced double heater down to -40°C (-40°F) or triple down to -58°C (-72.5°F).
- Available accessories:
    o Heater
    o camera power supply
    o Wiper and washer pump

**IKH-WIPER**
- 24VAC wiper for the HEG housing

**IK-DBHWGC Pole Mount Adaptor**
- Steel Construction
- For Pole Diameter: 8.3" ~ 8.6" (210~225mm)
- Load Rating: 55lbs (25kg)

**IKH-52300**
Robust aluminum housing designed to simplify the installation and service and guarantee total protection against all environmental conditions.
- Interior usable area 6.1x5.4x20.4 in (WxHxL) Allows for most cameras with large motorized zoom lenses (see data sheet for further details).
- Base constructed from aluminum and top part of the body in robust ABS material.
- IP66/1P67, removable top body with safety cord.
- Equipped as standard with camera power supply, reinforced triple heater with two continuous duty fans and wiper.
- Available accessories:
    o Optional washer pump.

**IK-WBLA Wall Mount**
- Solid Anticorodal Aluminum Construction
- Color: Beige
- Load Rating: 154lbs (70kg)
- Unit Weight: 14.5lbs. (6.6kg)
- Length: 18.7" (457.5mm)
- Shipping Weight: 15.4lbs (7kg)
- Shipping Dimensions: 10.5" x 7" x 19" (27x18x49cm)

**Choice of lenses available:**

**Varifocal Lenses, DC**
- 12.5mm-75mm.
- F1.6 to 9.6mm-240mm, F1.9.

**Motorized Zoom Lenses:**
- 9.6mm to 140mm, F1.9
- 25mm to 1,550mm, F7.0

**IKB-7500**
- Select cameras and monitors
- Operates Auxiliaries
- Programming and Control of PCS-7500HD
- Acknowledge Alarms

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## PCS-7500HD

The most impressive performance in ultra low illumination in a PTZ exterior housing is delivered by our PCS-7500HD PTZ Color Camera.

Its outstanding performance provides clear images even in darkness so that it is effective at the environment where lights are not allowed or limited.
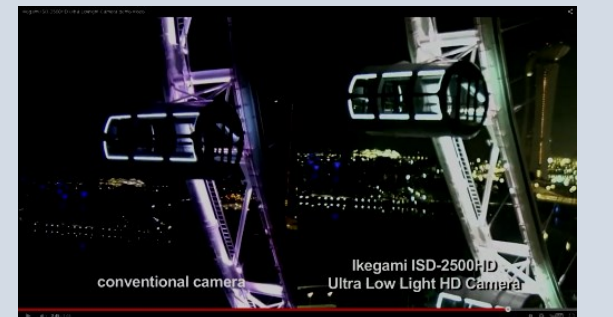
No cooling system required leads to easy temperature management which helps not only convenient installation but also selecting camera housing. Since power consumption is much lower than conventional models, it makes it economical and eco-friendly.

Wide Dynamic Range function in The Core provides a clear and high quality pictures even in the dark and bright areas by adjusting exposure settings, therefore achieving a corrected image with clear details results.

Integrated De-fog Function corrects distortion images caused by bad weather so that clear images can be acquired under harsh weather conditions

### Performance that Shows

conventional camera

Ikegami ISD-2500HD Ultra Low Light HD Camera

conventional camera

Ikegami ISD-2500HD Ultra Low Light HD Camera

**Ultra low light camera video sample**

Feel free to watch our short video by scanning the QR barcode above with your smartphone. It will demonstrate our ultra-low light camera performing side by side with a conventional low light camera in a drone flight at night.

Or visit our web site:

http://www.ikegami.com/cb/products/cctv_frame22.html and click on the video clip shown on the web page.