

# Ikegami

*Professional for Professionals!*



## Xtreme Starlight Camera

Can you see **COLOR** in the  
dark at 30fps?  
Ikegami can!

### 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 0.00016Lx minimum scene illumination performance in color mode and 0.00004Lx 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)





## 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 **0.00016 lux minimum scene illumination performance in color mode, (0.0004 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.

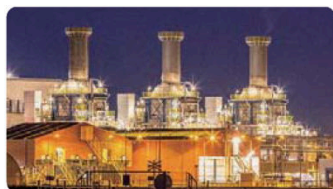
Wide Dynamic Range function in ISD-2500HD provides a clear and high quality pictures even in the dark and bright areas by adjusting exposure settings, therefore achieving a corrected image with clear details results.

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.



For Safety Surveillance\*



For Plant Surveillance\*



For Port Surveillance\*



For Ecology Observation\*



# ISD-2500HD Options

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



### IKH-47244

A 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 of 5.2x4.0x10.7 in (WxHxL) allows for most cameras with large lenses.
- IP66/IP67, Slide extractable body.
- Optional high efficiency cooling system for IP cameras and high environmental temperatures.
- Optional reinforced double heater down to -40°C (-40°F) or triple down to -58°C (-72.5°F).

- Available accessories:
- Heater
- Camera power supply
- Wiper and washer pump

### IKH-52300

Robust aluminum housing designed to simplify the installation and service with guarantee total protection from the environmental conditions.

- Interior usable area of 6.1x5.4x20.4 in (WxHxL) allows for most cameras with large motorized lenses.
- Base constructed from aluminum and top part of the body in robust ABD material.
- IP66/IP67, 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: Optional Washer Pump



### IKH-WIPER

- 24VAC wiper for the IKH-47244 housing



### IK-WBLA Wall Mount

- Solid Anticorodal Aluminum
- Color: Beige
- Load Rating: 154lbs (70kg)
- Unit Weight: 14.5lbs (6.6kg)
- Length: 18.7" (457.5mm)
- Ship. Wt.: 15.4lbs (7kg)
- Ship. Dim.: 10.5" x 7"



### IKH-DBHWGC Pole Mount Adaptor

- Steel construction
- For pole diameter: 8.3" ~ 8.6" (210mm~225mm)
- Load rating: 55lbs (25kg)

## Choice of lenses available:

### Varifocal Lenses, DC

- 12.5mm-75mm
- F1.6 to 9.6mm-240mm, F1.9



### Motorized Zoom Lenses:

- 9.6mm-140mm, F1.9
- 25mm-1,550mm, F7.0



### IKB-7500

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



# 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.

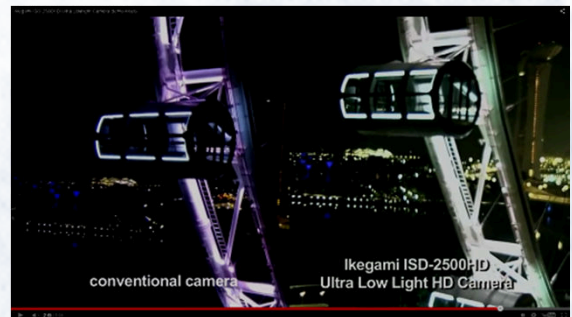
No cooling system required leads to easy temperature management which helps not only convenient installation but also selecting camera housing. Since power consumption is much lower than conventional models, it makes it economical and eco-friendly.

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



**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\\_frame26.html](http://www.ikegami.com/cb/products/cctv_frame26.html) click on ISD-2500HD, choose video clip #2.



# Specifications

<b>Image Sensor</b>	2/3" CMOS Sensor
<b>Effective Pixels</b>	1280(H) x 720(V)
<b>Synchronization</b>	Internal
<b>Video Output</b>	HD: HD-SDI 1080 (59.94i / 50i / 30p / 29.97p / 2Sp), 720 (60p / 59.94p / 50p / 30p / 29.97p / 25p) SD : VBS NTSC/PAL
<b>Horizontal Resolution</b>	SD: 650TV lines or more
<b>Minimum Illumination</b>	In color mode: 0.00016lux at F1.2 50% / in monochrome mode: 0.00004lux at F1.2 50% *Theoretical value.
<b>AGC (Auto Gain Control)</b>	ON (AGC/Hyper-AGC) / OFF (LOW / MIDDLE/ HIGH)
<b>Electrical Shutter</b>	OFF, 1/301/10000, Variable
<b>Slow Shutter</b>	X1, x2, x4, x6, x8, x12, x16, x24, x32, x64, OFF / AUTO (S/N, STD, MOVE) / MANUAL
<b>Backlight Compensation</b>	ON/OFF/SPOT
<b>White Balance</b>	ATW1, ATW2, AWC, Manual
<b>WDR (Wide Dynamic Range)</b>	OFF/ON
<b>De-fog</b>	OFF/ON
<b>Noise Reduction</b>	OFF/LOW/HIGH
<b>Electrical Zoom</b>	x1, x2, x3, x4, x5, x6, x7, x8, x9, x10 (Maximum)
<b>Auto Focus Function</b>	Available
<b>PCS-7500HD OPTIONS</b>	
<b>Focal Length (Lens part)</b>	9.6mm-240mm 1:1.9 (various range lenses available)
<b>PTZ Mechanism</b>	Pan: 360°Endless / Tilt: +20°(Up) ~ -70° (Down)
<b>Communication Command</b>	Pelco D, I-LAN (Ikegami protocol)
<b>Power Consumption</b>	
<b>ISD-2500HD</b>	approx. 7W
<b>PCS-7500HD</b>	approx. 230W
<b>Operating Temperature</b>	
<b>ISD-2500HD</b>	-10 to 50 degrees C
<b>PCS-7500HD</b>	-20 to 50 degrees C
<b>Operating Humidity</b>	30 to 90% (non-condensing)
<b>Dimension</b>	
<b>ISD-2500HD</b>	78 (W) x 58 (H) x140 (D) mm (without projections)
<b>PCS-7500HD</b>	314(W) x 444(H)x 495(D) mm
<b>Weight</b>	
<b>ISD-2500HD</b>	Approx. 650g or less
<b>PCS-7500HD</b>	Approx. 21kg

Design and specifications are subject to typo errors and change without notice.



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