

Ikegami

Xtreme × STARLIGHT , Get HD Colors in Ultra Low Light

The New developed CMOS 2/3-inch sensor equipped in ISD-2500HD is excellent in ultra-low light Sensitivity and Wide Dynamic Range especially with Color reproduction. Its outstanding performances provide clear images even in darkness so that it is effective at the environment where lights are not allowed or limited. That's exactly like "Xtreme Starlight".

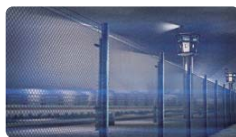
HD
High Definition

Ultra Low Light Color HD Camera **ISD-2500HD**

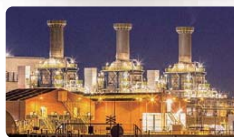


0.00016 lx
in Color

0.00004 lx
in B/W



For Safety Surveillance *



For Plant Surveillance *



For Port Surveillance *



For Ecology Observation *

Ultra-High Sensitivity [0.00016 lx]

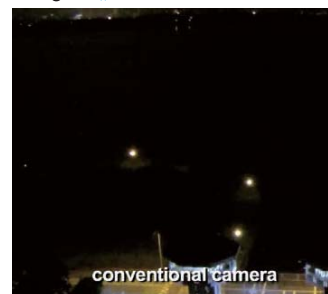
Without using a slow shutter function, it enables acquisition of clear images under ultra low light conditions down to an amazing 0.00016 lx minimum scene illumination performance in color mode. (0.00004 lx minimum scene illumination performance in B&W)



ISD-2500HD's
video sample



The video is captured by cameras equipped on a flying drone.



conventional camera



ISD-2500HD

Very Low Noise & Natural Moving Image

Since ISD-2500HD is free from the weakness of imaging accumulation, much less noise is generated and it also helps to capture moving objects such as vehicles, and motorcycles in real time 30 FPS in the dark.



ISD-2500HD

No Cooling System required & ECO-friendly

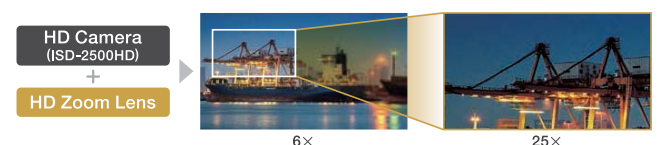
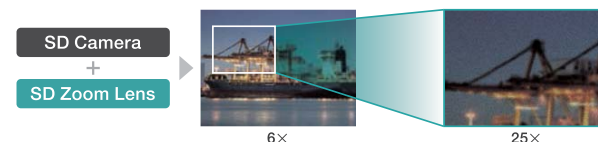
This leads to easy temperature management which helps not only convenient installation but also selecting camera housing. Since power consumption(6W) is much lower than conventional models, it is economical and eco-friendly.

Superior Color Reproduction & High Definition video in Day/Night

The color reproduction is produced with 921,600 pixels and is excellent for getting true color scenes. HD-SDI output provides high quality and high resolution images without image compression.

*1080/59.94i and 1080/50i are available.

Powerful Combination with Zoom Lens*



Wide Dynamic Range [WDR]

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



OFF



ON

De-fog Function

De-fog Function equipped in ISD-2500HD corrects distortion images caused by bad weather so that clear images can be acquired under any weather conditions.

Comparison of High Sensitivity Cameras

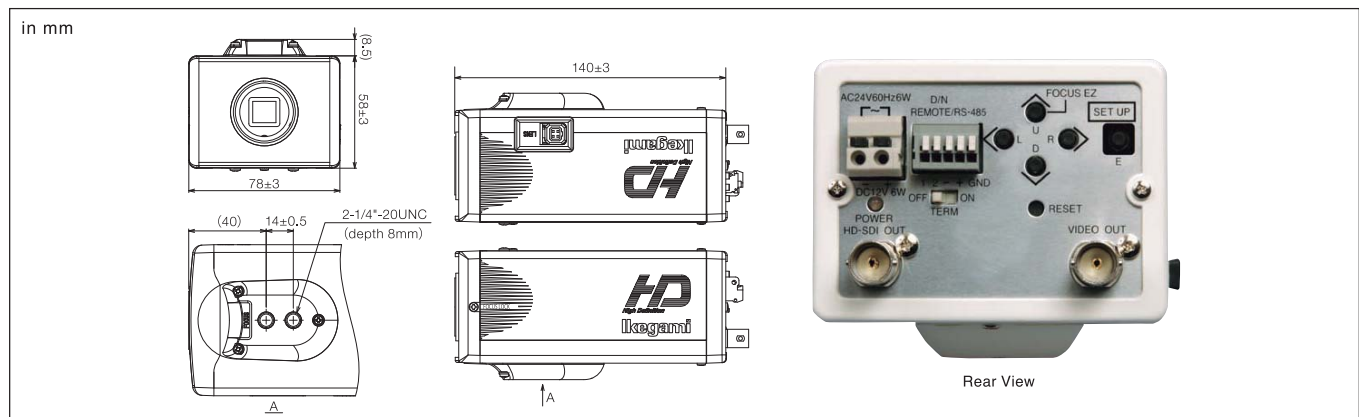
Sensor / Device	Newly developed high sensitivity CMOS (ISD-2500HD)	EM-CCD	Image intensifier	HARP Tube
Sensitivity	○	○	○	△
Resolution	○	△	△	○
Stability	○ (Low voltage)	× (Multiplying, cooling)	× (High voltage, electron multiplying)	× (High voltage, electron multiplying)
Power consumption	○	○	△	△
Outlook	Small	Small	Middle	Big
Cost	Low	Middle	High	High

EM-CCD(Electron Multiplying CCD:) is a CCD which multiplies the signals applying the high voltage onto the electron multiplying registers.

Specifications & Functions

Image Sensor	2/3" CMOS sensor
Effective Pixels	1280 (H) x 720 (V)
Synchronization	Internal
Video Output	HD : HD-SDI 1080 (59.94i / 50i / 30p / 29.97p / 25p), 720 (60p / 59.94p / 50p / 30p / 29.97p / 25p) SD : VBS NTSC/PAL
External Control	RS-485
Horizontal Resolution	650 TV lines or more
Sensitivity	F22 at 2000 lx
Minimum Illumination	in color mode: 0.00016 lx at F1.2 50% / in monochrome mode: 0.00004 lx at F1.2 50% ※ theoretical value
Day/Night Function	AUTO / REMOTE / MANUAL switcable
Lens Mount	CS mount (C mount adaptor can be used)
Lens Flange Back	Available with adjustment mechanism
Auto Iris	DC iris
Operating Temperature	-10°C to 50°C
Operating Humidity	30% to 90% (non-condensing)
Power Requirement	DC+12V (±10%) / AC+24V (±10% 50/60Hz)
Power Consumption	6W
Dimensions	78 (W) x 58 (H) x 140 (D) mm (without projections)
Weight	approx. 650g or less
AGC (Auto Gain Control)	ON (AGC / Hyper-AGC) / OFF (LOW / MIDDLE / HIGH)
Electronic Shutter	OFF, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, Variable
Automatic Electronic Shutter	ON / OFF
Slow Shutter	x1, x2, x4, x6, x8, x12, x16, x24, x32, x64, OFF / AUTO (S/N, STD, MOVE) / MANUAL
Backlight Compensation	ON / OFF / STOP
White Balance	ATW1, ATW2, AWC, Manual
WDR (Wide Dynamic Range)	OFF / WDR / AUTO KNEE / AUTO BLACK STRETCH
De-fog	OFF / ON
Gamma Correction	0.45 / 0.75 / 1
Noise Reduction	Available
Electronic Zoom	x1, x2, x3, x4, x5, x6, x7, x8, x9, x10
Privacy Mask	Available, maximum 8 areas (GRAY / WHITE / BLACK)
Focus Assist	Available (FOCUS EZ)
Camera ID	Available, maximum 24 characters
Image Flip	Normal / Flip / Mirror / Flip&Mirror

External view



★ --- Not actual image

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