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.

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.

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)

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

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

SD Camera
SD Zoom Lens
HD Camera (ISD-2500HD)
HD 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.

**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**

<table>
<thead>
<tr>
<th>Sensor / Device</th>
<th>Newly developed high sensitivity CMOS (ISD-2500HD)</th>
<th>EM-CCD</th>
<th>Image intensifier</th>
<th>HARP Tube</th>
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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**: 1/3" CMOS sensor
- **Effective Pixels**: 1296 (H) x 720 (V)
- **Synchronization**: Internal and external
- **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% a theoretical value
- **Day/Night Function**: AUTO / REMOTE / MANUAL switchable
- **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**: 110V (±10%) / 220V (±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, 1/8000, 1/10000, Variable
- **Automatic Electronic Shutter**: OFF / ON
- **Slow Shutter**: x1, x2, x4, x8, x16, x24, 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 BLACK STRETCH
- **De-fog**: OFF / ON
- **Gamma Correction**: 0.45 / 0.75 / 1
- **Noise Reduction**: Available
- **Electronic Zoom**: x1, x2, x4, x8, x16, x32, x64, OFF / AUTO (S/N, STD, MOVE) / MANUAL
- **Focus Assist**: Available (FOCUS EZ)
- **Camera ID**: Available, maximum 24 characters
- **Image Flip**: Normal / Flip / Mirror / Flip & Mirror

**Ultra Low Light Color HD Camera ISD-2500HD | Ninja eyes**

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**External view**

in mm

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*Not actual image*