

# Professional Low Light Cameras

## Series *LunaVision*

**ernitec**

### Description

The Series *LunaVision* consists of 1/2" and 1/3" professional Low Light Colour or Monochrome cameras.

To obtain the extreme Low Light Performance, these cameras are based on Sony ExView HAD CCD-sensors, Premium Grade Quality, from which only the very best are hand-picked for the *LunaVision* cameras.

To further improve the signal/noise ratio, and thereby the low-light performance, the sensor is cooled by a *Twin-Fan Conducted Heat Removal* system, and special low-noise video amplifiers have been used.

The cameras are very robust and have been shock and vibration tested.



*LunaVision*

### Main Features

- Genuine Low Light Cameras – ***without using frame integration or Digital Slow Shutter!***
- 1/2" and 1/3" Versions, Colour or Monochrome
- **540 TV Lines** (1/2" Colour Version)
- CCD's are hand-selected from Sony Premium Grade Exview HAD CCD's
- Twin-Fan Conducted CCD Heat Removal for improved sensitivity and lower noise
- Perfect alignment of CCD sensor in optical axis
- On Screen Display
- DSP based
- Vibration and High Temperature resistant

# Specifications

| Type  | HO-S 321 (Rev. C)                             | HO-S 331     | HO-S 221      | HO-S 231   |
|---|---|--------------|---------------|------------|
| Type  | 1/2" Colour                                   | 1/3" Colour  | 1/2" B/W      | 1/3" B/W   |
| Video output  | 1 Vpp, 75 Ω, PAL/NTSC                         |              |               |            |
| Horizontal resolution                                       | 540 TV-lines                                  | 480 TV-lines | 570 TV-lines  |            |
| Sensitivity at CCD, AGC max, 30 IRE, no integration         | 0.0006 lux                                    | 0.005 lux    | 0.0003 lux    | 0.0008 lux |
| Sensitivity with F1.4 lens, AGC max, 30 IRE, no integration | 0.006 lux                                     | 0.05 lux     | 0.003 lux     | 0.008 lux  |
| S/N Ratio, AGC Off  | >50 dB  |              |               |            |
| Integration   | OFF / 2f / 4f / 8f / 16f / 32f / 64 field     |              | OFF / 2f / 4f |            |
| Electronic shutter  | 1/50 (NTSC:1/60)-1/10000 (8 steps + CCD iris) |              |               |            |
| Video synchronisation                                       | Internal/External                             |              |               |            |
| Gain  | Fixed/Auto max 12 dB/Auto max 24 dB           |              |               |            |
| BLC – Backlight Compensation                                | ON (multiple modes)/OFF                       |              |               |            |
| White Balance   | Auto/Manual                                   |              | N/A           |            |
| <b>Power supply</b>   |   |              |               |            |
| Voltage   | 12 VDC +/- 10%                                |              |               |            |
| Power consumption   | 3 W typ.                                      |              |               |            |
| <b>Physical Characteristics</b>                             |   |              |               |            |
| Housing   | All aluminium                                 |              |               |            |
| Size  | 120 x 76 x 56 mm                              |              |               |            |
| Weight  | Approx. 480 g                                 |              |               |            |
| <b>Environment</b>  |   |              |               |            |
| Lifetime  | Min. 120,000 hours                            |              |               |            |
| Operating temperature                                       | -10 to +70°C(*), max. 95% RH non-condensing   |              |               |            |
| Vibration test  | IEC 68-2-6                                    |              |               |            |
| Shock test  | 60 G in 3 dimensions, repeated 3 times        |              |               |            |
| Bump test   | 10 G in 3 dimensions, repeated 100 times      |              |               |            |

(\*) From 55° and upwards, a number of permanent pixels may be present.



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