

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	
Power supply				
Voltage	12 VDC +/- 10%			
Power consumption	3 W typ.			
Physical Characteristics				
Housing	All aluminium			
Size	120 x 76 x 56 mm			
Weight	Approx. 480 g			
Environment				
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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