

Professional Low Light Cameras – Series *Lunacombo*

ernitec

Description

The *Lunacombo* is a 1/2" professional Low Light Colour camera factory fitted with an Ernitec Q Series 10-250mm zoom lens.

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 Air-Cooled by a Twin-Fan system, and special low-noise video amplifiers have been used.

Pre assembled and tested in the factory for perfect alignment and back focusing, thus massively reducing install time and improving zoom and focus performance.



CAM.PACK

Main Features

- Genuine Low Light Cameras – even without integration!
- 1/2" Colour Version
- 540 Tv Lines Colour
- CCDs are hand-selected from Sony Premium Grade Exview HAD CCDs
- Twin-Fan Air-Cooled CCD for improved sensitivity
- Perfect alignment of CCD sensor in optical axis using Bore site Retention
- On Screen Display
- DSP based

Device Structure

- Interline CCD image sensor
- Optical size: Diagonal 8mm (Type 1/2)
- Number of effective pixels: 752 (H) · 582 (V) approx. 440K pixels
- Total number of pixels: 795 (H) · 596 (V) approx. 470K pixels
- Chip size: 7.40mm (H) · 5.95mm (V)
- Unit cell size: 8.6µm (H) · 8.3µm (V)
- Optical black: Horizontal (H) direction: Front 3 pixels, rear 40 pixels
Vertical (V) direction: Front 12 pixels, rear 2 pixels
- Number of dummy bits: Horizontal 22
Vertical 1 (even fields only)
- Substrate material: Silicon

Camera Specifications

Type	HO-S 321 Twin		
Type	1/2" Colour / Monochrome		
Video output	1 Vpp, 75 Ω, PAL/NTSC		
Horizontal resolution	540 TV-lines Colour / Monochrome		
Sensitivity at CCD, AGC max, 30 IRE, no integration	0.0006 lux		
Sensitivity with F1.5 lens, AGC max, 30 IRE, no integration	0.009 lux		
S/N Ratio, AGC Off	>50 dB		
Integration	OFF / 2f / 4f / 8f / 16f / 32f / 64 field		
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		
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			
Operating temperature	-10 to +55°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		

Lens Specifications

Lens Type Q-range	Focal Length (mm)	Mount Format	Max. Apt.	Filter Thread	Horizontal Angle of View		Min. Obj. Dist. (m)	Time Z/F (sec.) @ 12 VDC	Dimensions (mm)				Weight
25 x Zoom: Q10Z25SPNA- 1/2#)	10-250	C-1/2"	1.5-360	-	1.1°-26.3°	1.5°-35.3°	2.0	2.5/8.5	5.2	122	240.5	122	2300g



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