

# LunaVision HO-S321

480 TVL Analogue Electronic Colour Day/Night Camera  
Preliminary Datasheet



## Features

- 480 TVL resolution
- Wide temperature range, -30°C to +70°C
- CS-mount with adjustable back-focus
- Image sensor aligned to lens mount
- 12V power
- Setup through OSD menu or RS-232

## Description

The HO-S321 LunaVision is a colour 480 TVL 1/2" electronic day/night camera designed to deliver high performance in extreme temperatures.

The camera is an electronic day/night camera, meaning it can automatically switch between colour and monochrome operation depending on the light level. It also features an Extended Night Mode, with up to 64 fields integration.

It is designed to operate in temperatures ranging from -30°C to +70°C and is therefore suitable for installation in e.g. areas with very warm climate without the expense of installing a cooling system.

### Conducted cooling

The LunaVision camera uses conducted cooling to remove heat from the CCD sensor. The main benefit of this is that it reduces the noise from the CCD thereby providing a better video image, particularly in low-light conditions.

### Precision mounted CCD

The CCD sensor of the HO-S321 is precision mounted with reference to the lens mount which makes bore-sighting of camera and optics possible.

### Wide range of features – General purpose

The camera is available in PAL and NTSC format with Composite Video (CVBS) output. It is designed around a powerful 10-bit DSP processor with high signal to noise ratio and high data throughput.

The camera is powered by 12V DC. There are connections for lens iris control (video control or direct drive) and external sync.

Set-up be done either via an RS-232C, using software provided by CST, or the On-Screen Display menu (OSD) and buttons on the rear panel of the camera.

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TECHNOLOGIES

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## Specifications

	PAL	NTSC
<b>Image system</b>		
Sensor	1/2" Colour CCD sensor	
Effective pixels (H x V)	752 x 582	768 x 494
Scanning system	2:1 Interlace	
Horizontal frequency	15.625 kHz	15.734 kHz
Vertical frequency	50 Hz	59.94 Hz
<b>Electrical specifications and functions</b>		
Video output	Composite video, 1 Vpp, 75 ohm	
Video iris out	700mV, 10k ohm, without sync	
Horizontal resolution	480 TVL	
Sensitivity	6 mlux, 30% video, F1.4, AGC on	
Signal to noise ratio	> 50 dB, AGC Off	
Electronic shutter	1/50 to 1/10,000 sec.	1/60 to 1/10,000 sec.
Gamma correction	0.45 / 0.6 / 1.0	
Automatic Gain control	Off, +12dB, +24dB	
Field integration	Off, Auto, Manual. 2F to 64F for each mode	
Day/night switching	Electronic	
IR Sensitive	Yes	
White balance	Tracking Auto-WB, Manual, One-Push, Fixed pre-set 3200K, 4600K, 5600K	
Backlight Compensation (BLC)	Off, Pattern 1, Pattern 2, Pattern 3	
Scanning reversal	Horizontal mirroring	
Aperture control	Vertical and Horizontal edge enhancement	
External lock input	VBS or composite sync / VS composite sync	
Configuration	OSD menu and RS-232	
<b>Mechanical</b>		
Lens mount	CS-mount with back-focus adjustment	
Overall dimensions (W x H x L)	75.5 x 56 x 120 mm (not incl. connectors)	
Net weight	480 g	
Video connector	75 ohm BNC	
Control connector (J2)	15-pin D-sub, (male) Power in/zoom/focus/RS 232	
Control connector (J3)	15-pin D-sub, Zoom/Focus/ Ext. Power out/Ext. Function out/Iris out	
<b>Environmental</b>		
Operating voltage	12 VDC ±10%	
Current consumption	250 mA	
Operating temperature	-30°C to +70°C	
Operating humidity	Max. 80%, Non Condensing	
Storage temperature	-30°C to +70°C	
Storage humidity	Max. 80%, Non Condensing	

CST cannot be held responsible for any technical inaccuracies or typographical errors. Specifications are subject to change without notice.

**Note 1:** The camera must not be exposed to rain or other form of moisture. If operated under circumstances where rain, moisture or high humidity is anticipated, the camera must be installed in a housing that prevents build-up of condensation and moisture from entering.

**Note 2:** From approx. 55°C image degradation, in the form of a few pixels with blemishes, will occur.

From approx. 60°C the number of pixels with blemishes will increase.

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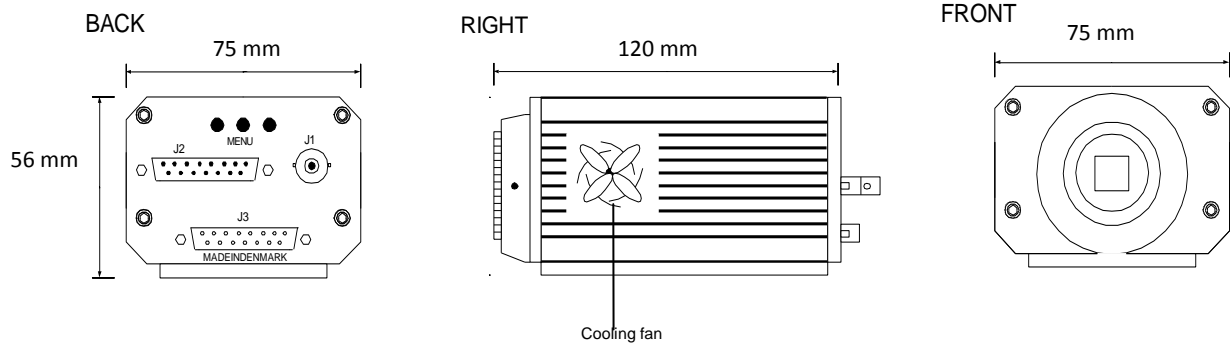
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## Mechanical outline and dimensions



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