

# LunaVision+ LV-332

560 TVL Analogue electronic day/night camera

Datasheet



## Features

- 560 TVL resolution
- Wide temperature range, -30°C to +70°C
- Expanded Hi-Dynamic Range
- Fog penetration
- Digital Noise Reduction
- Setup through OSD menu or RS-232

## Description

The LV-332 LunaVision+ is a 560 TVL 1/3" 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 4 seconds 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.

### Expanded Hi-Dynamic Range (XDR)

XDR is useful in conditions where there are large variations in brightness in the picture, i.e. when there are very dark and very bright areas in the picture. XDR amplifies the signal level in dark areas and reduces it in very bright areas thereby improving the visibility in the picture.

### Fog penetration

The fog penetration function is designed to automatically increase visibility under conditions such as fog, haze and fire smoke. The camera continuously analyses the picture and once it detects a low-contrast condition, it will automatically enhance the contrast.

### Digital Noise Reduction (DNR)

The Digital Noise Reduction function in the LunaVision+ camera analyses the video image and reduces the noise, particularly in low-light conditions. The analysis is based on 2 and 3-dimensional algorithms.

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TECHNOLOGIES

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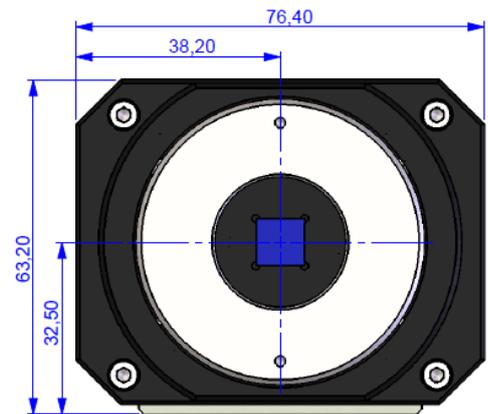
Datasheet



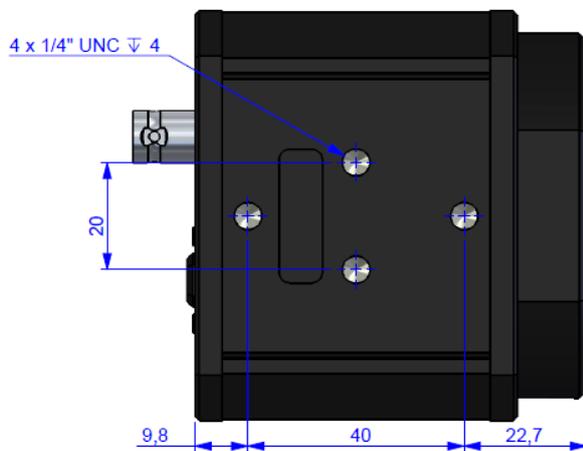
## Mechanical outline and dimensions



Side View



Front View



Bottom View



Rear View

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## Specifications

	PAL
<b>Image system</b>	
Sensor	Sensitive colour CCD with complementary mosaic
Effective pixels (H x V)	752 x 582
Scanning system	2:1 Interlace
Horizontal frequency	15.625 kHz
Vertical frequency	50 Hz
<b>Electrical specifications and functions</b>	
Video output	Composite video, 1 Vpp, 75 ohm
Horizontal resolution	560 TVL
Sensitivity	0.01 lx, 25% video, F1.4, AGC on
Signal to noise ratio	> 52 dB, AGC Off
Electronic shutter	
- Automatic	1/50 to 1/120,000 sec.
- Fixed	1/50 to 1/10,000 sec.
Gamma correction	0.45 / 1.0
Automatic Gain control	On / Off
- AGC range	36 dB analogue, 24 dB digital
Frame integration	On / Off
- Range	Up to 4 sec.
Day/night switching	Electronic
IR Sensitive	No (fixed IR-cut filter)
Fog penetration	Off, Low, Mid, High
White balance	ATW and AWB
Noise reduction	2D and 3D Digital Noise Reduction
Backlight Compensation (BLC)	On / Off
Configuration	OSD menu with rear panel buttons and RS-232
OSD Languages	English, Japanese
<b>Mechanical</b>	
Lens mount	CS-mount with back-focus adjustment
Overall dimensions (W x H x L)	76.4 x 63.2 x 84 mm (incl. connectors)
Net weight	410 g
Video connector	75 ohm BNC
Power, data	7-pin terminal block
Iris control	4-pin plug
<b>Environmental</b>	
Operating voltage	12 VDC $\pm$ 10%
Current consumption	200 mA
Operating temperature	-30°C to +70°C
Operating humidity	Max. 80%
Storage temperature	-30°C to +70°C
Storage humidity	Max. 80%

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## About Us

CST - Copenhagen Sensor Technology A/S is a privately held Danish company specialising in the design and manufacture of high-performance electro-optical solutions for demanding battlefield and surveillance applications.

Founded in 2001, CST has rapidly grown to a mature organisation, capable of serving a global customer base. In modern facilities on the outskirts of Copenhagen, Denmark, CST houses R&D, production, QA and sales and marketing functions. With a collective experience in CCD camera, optics, electronics and software development, the highly skilled staff at CST is committed to creating rugged, durable and innovative electro-optical solutions.

CST is certified to ISO 9001:2008, which applies to the whole process flow of design, development, manufacturing and testing. Furthermore, design and development activities operate in accordance with the ISO 10007:2003 configuration management standard. CST products are not restricted by ITAR.

## Customer and OEM solutions

**CST has a long tradition of working closely with its customers, identifying unmet needs and creating solutions with sustainable value for the users.**

With a strong R&D base at the headquarters in Denmark, CST is able to provide mechanical, optical, software and hardware customisations while meeting the toughest requirements for military, homeland security and high-end surveillance applications.

Whether the need calls for a ruggedized high-precision zoom lens or a highly sensitive CCD camera, or a complete system comprising lens, camera and advanced video processing, CST can offer a fast-track design process. Contact us to discuss your specific requirements. Together we can create a solution that provides the best price and performance ratio.

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