



Description

The Luna-12094/342 is ideal for surveillance with its high definition imaging delivered in a small housing ready to be installed indoor or as an OEM camera in larger surveillance installations.

Typical applications include intelligence service, perimeter protection, critical infrastructure protection and indoor hospital surveillance.

The Luna-12094/342 is a HDTV Auto Focus Camera combining 1/2.8-inch 2.48M pixels CMOS sensor and 20x High Performance Auto focus zoom lens. Luna-12094/342 provides 1920x1080 HDTV signal and 720P signal as well as NTSC/PAL analogue video signal.

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.

Camera Control

The setting of camera parameters are performed on the OSD (On Screen Display) buttons located on the rear panel of the camera. They are also controlled through RS232C interface.

Luna-12094/342 is an excellent choice for surveillance where detailed images are needed. The camera is ready to be installed for indoor surveillance or as an OEM unit in larger outdoor surveillance systems.

Typical applications are within the medical industry, intelligence service or for perimeter protection of buildings, infrastructure and more.

Day/Night operation

The integrated movable IR-cut filter allows the camera to operate optimally in daylight conditions, rendering perfect colour images.

For night-time operation the IR-cut filter is moved out of the optical path and the colour component is suppressed. This allows the camera to capture high contrast monochrome images, including the Near-IR spectrum, with increased sensitivity.

Digital Noise Reduction (DNR)

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

Fog penetration

The fog penetration function is designed to automatically increase visibility under conditions such as fog, haze and smoke.

The camera continuously analyses the picture and once it detects a low-contrast condition, it will automatically enhance the contrast.

Continuous Digital Zoom

The Luna-12094/342 provides continuous digital zoom with 10x range, selectable from the On Screen Menu (OSM) or via the serial interface.

Main features

- Full HD camera
- Zoom lens 4.7 to 94mm (20x)
- HD-SDI and Analogue output
- High sensitivity
- Day/night mode with moveable IR-cut filter
- Digital Noise Reduction
- Fog penetration

	PAL (analogue)	NTSC (analogue)	HD-SD
Image system			
Sensor	SONY 1/2.8"-2.48Mega Pixel C-MOS Image		
Effective pixels (H x V)	2000 x 1241		
Pixel size (pitch)	2.8 x 2.8 μm		
Image format	16:9 and 4:3		16:9
Focal length	4.7 – 94mm zoom (20x)		
Horizontal field of view	Wide: 59.9° / Narrow: 3.1°		
Scanning system	Progressive Scan		
Frame rate (nominal resolution)	30 Hz		

	PAL (analogue)	NTSC (analogue)	HD-SD
Electrical specifications and functions			
Video output	Analogue with PAL or NTSC		HD-SDI
Video resolution	800 TVL		1280 x 720p / 1920 x 1080p Full HD out / 1920 x 1080i Full HD out
Sensitivity	0,05 Lux (Video output 25IRE, AGC ON, Lens Iris F1.6, IR-Cut filter Off)		
Spectral response	400-700nm with IR-cut filter on (day mode) 400-950nm with IR-Cut filter off (night mode)		
Day / Night function	Off/On/Auto		
Signal to noise ratio	52db (minimum 48dB) AGC Off, Weight ON		
Auto Exposure	Auto / Fix / Iris priority (1/30~1/120,000s for NTSC, 1/25~1/120,000s for PAL)		
Electronic shutter speed	On (8/1~1/10,000s, 21 steps) / Off		
Electronic shutter, Fixed	1/25- 1/10'000 sec. (PAL)		
Gamma correction	0.45 / 0.65 / 1.0		
Automatic Gain control	On / Off Max 30 dB analogue		
Fog penetration	Off, Low, Mid, High		
White balance	ATW, or AUTO or AWB (One-Push)		
Noise reduction	2D and 3D Digital Noise Reduction 2 Levels		
Backlight Compensation (BLC)	On/Off		
Extended Dynamic Range (XDR)	1)Off 2)Low 3)Mid 4)High		
D-WDR (digital WDR)	1)Off 2)Low 3)Mid 4)High		
Continuous Digital Zoom	10 x range continues zoom		
Configuration	OSD menu with rear panel buttons and serial RS-232, RS-485		
Protocol	Pelco-D or FET protocol		
OSD Languages	English		
Freeze	Off/on		
H/V mirror Mode	Horizontal and Vertical reverse		

	PAL (analogue)	NTSC (analogue)	HD-SD
Mechanical			
Overall dimensions (W x H x L)	59 x 67.5 x 113.1mm		
Net weight	460 g		
Analogue/HD-SDI Video connector	VBS 9-pol D-sub connector		75 ohm BNC
Power, data	9-pol D-sub connector		

	PAL (analogue)	NTSC (analogue)	HD-SD
Environmental			
Power supply requirements	12 VDC ±10%		
Current consumption	300 mA dc		
Operating humidity	Max. 80% non-condensing		
Operating temperature /humidity	-10°C to +50°C		
Storage temperature / humidity	-30°C to +70°C		

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