

Product Information

Cameras

1/2" CCD Cameras (Mono) CCD-4012A / CCD-4230A High End Class with 570 TV Lines

Product Data

- 568,000 pixels at the output
- auto shutter up to 1/100.000sec.
- AGC 32 dB / ALC 72 dB
- Smear < 0,001 %
- 2H enhancer
- Peak light inverter (eclipser)
- 12 V/DC or 230 V/AC
- I.R. sensitive
- line-lock synchronisation



Description

The CCD-4000 series is part of a complete videotronic infosystems 1/2" High End CCD camera line. The cameras have 570 TV lines resolution and include different useful options. The CCD-4000 series uses a high resolution 1/2" HQ Interline Transfer CCD chip which is extremely sensitive to light (0.005 lux at the faceplate) and produces crystal clear, sharp pictures. The cameras are available with 12 V/DC or 230 V/AC power supply and include an adjustable line-lock (mains phase) synchronisation.

The camera has an excellent I.R. performance.

A rugged metal case with industrial design underlines the impression of solid construction and excellent manufacturing quality and protects the camera against active and passive interference. The camera includes a peak light inverter (eclipser) eliminating picture distortions caused by peak lights. A manual electronic shutter can be adjusted in 8 steps to adjust the camera to the individual scene illumination. The included C mount adapter makes the camera suitable for any lens type (1/2"). The integrated high speed auto shutter allows you to use lenses with automatic iris (video signal driven or DC-controlled) or lenses with manual iris.

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Cameras

Technical Specifications

Max. pixels at video output	568.000
Net pixels on chip	440.000
Sensitivity to light	0.005 lux at the faceplate
Sensor	1/2" HQ Interline Transfer CCD
Backlight (BLC)	yes (switchable)
Auto shutter	1/50 - 1/100.000 sec.
Manual shutter	yes, adjustable in 8 steps
Enhancer	2 h, vertical and horizontal
Gamma correction	0.45 (switchable to 1)
Signal-to-noise ratio	> 62 dB
AGC / ALC	32dB (+ 6dB switchable) / 72dB
Synchronisation	internal / linelock 0° - 300°
Spectral response	380 - 1000 nm
Smear	< 0.001%
Depth of modulation	> 80% (without lens)
Dark current	< 1%
Return loss	> 22 dB
Automatic circuits for	
Anti blooming	yes
Gain	yes
Pedestal	yes
Scanning system	CCIR; 625 lines, 50 Hz
Resolution	570 TV lines (horizontal)
Video output signal	BAS 1 V _{pp} / 75 Ω
Operating voltage	12 V/DC or 230 V/AC
Consumption	max. 4 W
Ambient temperature	-10° up to +50° C.
Air humidity	up to max. 90%
IP rating acc. to VDE	IP40 / cl. III
MTBF	120.000 hours
EMI	acc. to EN 50081-1, EN 55011, cl. B
EMC	acc. to EN 50082-2, EN 50204, EN 61000-4-2, -3, -4, -6
Safety	acc. to EN 60950, EN 60065
Shock/Vibration resistance	50 G / 5 G
Lens mount	CS mount
1/4" mounting thread	top and bottom
Connections: Video	BNC
Lens	CCD-ES-4A (Chuo Musen)
12 V/DC/linelock	terminal block
230 V/AC/linelock	mains cord
Dimensions (W x H x D)	65 x 65 x 135 mm
Housing colour	RAL 7035 grey-beige
Accessories included	Operating Instructions, Allan key, C mount adapter

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Errors and omissions excepted.

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