

# Product Information

## Cameras

### 1/3" CCD Cameras (Colour) CCD-FS-3012EX / CCD-FS-3230EX High End Class with 480 TV Lines and EXview HAD CCD Chip (Sony)

#### Product Data

- extremely sensitive to light EXview HAD CCD Chip (Sony)
- automatic colour/mono switching for day/night operation
- auto shutter up to 1/100,000 second
- 0.0034 Lux at the faceplate (mono)
- 0.0136 Lux at the faceplate (colour)
- backlight function
- 12 VDC or 90 - 260 VAC
- linelock synchronisation
- on-screen display



#### Description

The CCD-FS-3000EX series is part of a complete videotronic infosystems 1/3" High End CCD camera line. The cameras have 480 TV lines resolution and include different useful functions. The CCD-FS-3000EX series uses the new, very sensitive - 0.0034 Lux (mono) respectively 0.0136 Lux (colour) at the faceplate - high resolution 1/3" EXview HAD CCD Chip (Sony) which produces crystal clear, sharp colour pictures. The cameras are available with 12 VDC (CCD-FS-3012EX) or 230 VAC (CCD-FS-3230EX) power supply and include an adjustable linelock (mains phase) synchronisation.

The automatic colour cut off allows day/night operation with always optimal sensitivity to light. The camera automatically switches to mono operation - thereby allowing a significantly higher contrast ratio - when the illumination in the monitoring area falls below a user-defined level.

A robust, elegant metal housing protects the camera against interference. The CCD-FS-3000EX series includes a real backlight function eliminating picture distortions caused by background peak lights. The C/CS mount makes the camera suitable for any 1/3" lens type (manual, DC or AI). The integrated high speed auto shutter optimally adapts the camera to the local lighting conditions.

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# Cameras

## Technical Specifications

Camera Type	CCD-FS-3012 EX	CCD-FS-3230 EX
CCD	1/3" interline transfer EXview HAD chip (Sony)	
Max. Pixels at Output	568,000	
Net Pixels on Chip	440,000 752 (h) x 582 (v)	
Resolution at 625 Lines	480 lines	
Sensitivity to Light	0.136 lux / F1.4 (colour) 0.034 lux / F1.4 (mono)	
Enhancer (H-Aperture)	yes	
Gamma Correction	0.45	
Shutter	1/50 - 1/100,000 (auto)	
Signal-to-Noise Ratio	> 50 dB (AGC off)	
AGC / ALC	30 dB / 64 dB	
Synchronisation	linelock	
Backlight	yes	
Spectral Response	380 – 660 nm	
Smear	< 0.01%	
Depth of Modulation	80 %	
Return Loss	> 20 dB	
Automatic Circuits for		
Gain	yes	
Pedestal	yes	
White Balance	AWB = 9500° K	
Scanning System	PAL	
Operating Voltage	12 VDC	90 - 260 VAC
Consumption	max. 4 W	
Operating Temperature	- 10° - + 50° C	
Air Humidity	up to max. 90%	
IP Rating	IP40, class III, CL I	
MTBF	80,0000 hours	
EMI	according to EMVG	
EMC	according to EMVG	
Lens Mount	C / CS mount	
Housing Colour	RAL 7035 grey / beige	
Connections via	terminal strip, video via BNC	net cable, video via BNC
Dimensions (W x H x D)	60 x 67 x 127 mm	

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 Errors and omissions excepted.

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