# **Product Information**

# **Cameras**

# 1/2" High End Colour Camera Series CCD-FS-2000EX with 480 TV Lines and EXview HAD CCD Chip

#### **Product Data**

- EXview HAD CCD chip
- 0.0136 lux at the faceplate (colour)
- 0.0034 lux at the faceplate (mono)
- 480 TV lines resolution
- automatic colour / mono switching
- backlight function
- auto shutter up to 1/100,000 sec.
- remote parameterisation via coax cable or RS232 via optional programmer unit
- linelock synchronisation



### **Description**

The CCD-FS-2000EX series is part of a complete videotronic infosystems 1/2" High End CCD camera line. The cameras use the high quality 1/2" EXview CCD chip and produce good video pictures even under extremely bad lighting conditions. They allow for an automatic switching between colour and mono, the switching threshold is freely adjustable.

Due to their high sensitivity to light of 0.0136 lux (colour) and 0.0034 lux (mono) at the faceplate these cameras produce crystal clear, sharp video pictures anytime. The colour cameras have a horizontal resolution of 480 TV lines and include different useful options. They are available with 12 VDC (CCD-FS-2012EX) or 230 VAC (CCD-FS-2230EX) power supply and include an adjustable linelock (mains phase) synchronisation (300°).

The cameras can be remotely controlled and set up via coaxial cable or RS232 using an optional programmer unit. Moreover, all camera parameters can be set at the rear side of the camera via push buttons (and on-screen menu).

A rugged metal case with industrial design protects the camera against active and passive interference. The CCD-FS-2000EX series includes a real backlight function eliminating picture distortions caused by background or peak lights. A manual electronic shutter can be adjusted in 10 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 to optimally adopt the camera to the local lighting conditions.

Security in Focus.



# **Cameras**

# **Technical Specifications**

Max. pixels at video output	568,000
Net pixels on chip	440,000
Resolution at 625 lines	480 lines
Sensitivity to light	0.034 lux / F1.4 b/w
, ,	0.136 lux / F1.4 colour
Sensor	1/2" HQ Interline Transfer CCD
Remote-configuration	via coax-cable
Onscreen Display	yes
Enhancer (H-Aperture)	yes
Gamma correction	0.45
Auto Shutter	1/50 – 1/100,000
Signal-to-noise ratio	> 50 dB
AGC / ALC	18 dB / 72 dB
Synchronisation	linelock
Backlight	yes
Spectral response	380 – 660 nm
Smear	< 0.004%
Depth of modulation	80%
Return loss	> 22 dB
Automatic circuits for	
Gain / Pedestal	yes
Video output signal	FBAS 1 V <sub>pp</sub> / 75 Ω
Y/C-output	yes
Scanning system	PAL
Operating voltage / Consumption	CCD-FS-2012EX=12 V/DC / 5 W, CCD-FS-2230EX=230 V/AC / 6 W
Ambient temperature	-10° up to +50° C.
Air humidity	max. 90%
IP rating acc. to VDE	IP40 / cl. I bzw. III
MTBF	80,000 hours
EMI	acc. to EMVG
EMC	acc. to EMVG
Lens mount	C- / CS mount
Housing color	RAL 7035
Connections via	BNC, terminal block, mains cord
Y/C	Mini DIN 4 pole
	65 x 65 x 135 mm

 $<sup>\</sup>circledcirc$  videotronic infosystems gmbh, Germany 05/2002 Errors and omissions excepted.

