

## Colour Video Camera CCD-400E



The new video camera category: excellent in technique, small in format, superflexible for any kind of utility. For images in digital quality with brilliant natural colours.

The CCD - 400 E is controllable via PC and manually. The digital signal processor allows easy operation and unique colour adjustment.

The high performance lens is equipped with autofocus, auto iris control as well as 14-times motor zoom which only requires two seconds for tele to wide angle operations, making it the ideal tool for rapid image changes and if lighting conditions alter rapidly.

With only 1 Lux, the 1/4 inch small CCD image chip delivers perfectly sharp images, even in different light conditions.

- New 1/4"-CCD-chip for 430 lines of horizontal resolution with actual 440.000 sharp, coloured image pixels.
- Unique digital colour adjustments even 30 steps for red and blue colour proportions. This makes an absolutely individual colour matching possible for any kind of use.

- Digital signal processor for automatic white balancing, compensation of background light, colour balancing, contrast configuration and other multiple functions.
- Motorized zoom lens with 14 times magnification and automatic focussing covering the complete focal length.
- Quick adjustment change from tele to wide angle operation in only two seconds due to power zoom with high speed motor.
- Integrated serial interface (RS - 232 C) for controlling all functions via PC.
- 8 shutter adjustments from 1/50 to 1/10.000 seconds.
- Manual colour and aperture control for optimal adjustment.
- External synchronization function for simultaneous adaption of several cameras.

See reverse for technical data.



FULL IDENTIFICATION SERVICE

## Colour Video Camera CCD-400E

Recording element	1/4" CCD (470.000 pixels)
Amount of actual pixels	752 (H) x 582 (V) (440.000 pixels)
Scanning system	625 lines, 2:1 interlaced
Scanning frequency	15.625 kHz horizontally, 50 Hz vertically (PAL)
Synchronisation	internal/external
External Sync signal	VBS or VS, Sync = 0,3 Vss ± 3dB, H-period: 64 µsec. ± 1 %
Output signals	FBAS: 1,0 Vss to 75 Ohm Y: 1 Vss to 75 Ohm C: 0,3 Vss to 75 Ohm
Resolution	430 TV lines (H) y-c
Minimum lighting	1 Lux at t-stop F 1,4 (for max. GAIN)
Automatic Gain Control (AGC)	automatic and manual adjustment
Signal-to-interference ratio	> 46 dB (luminance)
Interface	RS-232 C, DIN 8 pin
White balancing	Auto / Indoor / FL-Light / Outdoor / Lock / Manual
Colour balancing	R-Gain / B-Gain / R-Hue / B-Hue
Electronical shutter	1/50 to 1/10.000 second in 8 steps
Lens	electronical 14-times motorized zoom, F 1,4 focal length f = 3,9 - 54,9 mm
Zoom speed	2 / 3 / 6 / 10 seconds
Focus range	stageless automatic and manual adjustment Auto / Lock / Manual
Aperture	automatic and manual adjustment
Operating conditions	0 to 40°C
Power supply	Direct current, 12 Volt, 380 mA
Dimensions (width x height x depth)	66 x 55 x 103,5 mm
Licence/Regulation	CE according to 89/336/EEC, EN 60065, EN 60905, IEC 65, IEC 950