

JVC

PROFESSIONAL

1/3" CCD COLOUR VIDEO CAMERA

TK-C700E

(AC 24V/DC12V)

High-Sensitivity, Full-Featured CCTV
Surveillance Camera with Digital Signal
Processor for Use in All Light Conditions



Shown with optional lens

- Integrated Digital Signal Processor for Low-light Operation (0.75 lux)
- 1/3-inch IT CCD with 290,000 Effective Pixels
- 330 Lines of Horizontal Resolution
- Automatic Gain Control (AGC)
- Auto White Balance with Manual Adjustment
- S/N Ratio of 50 dB (AGC Off)
- Back-light Compensation
- Automatic Electronic Shutter

Full-featured CCTV Surveillance Capability in a Compact and Cost-effective Package

JVC's TK-C700E CCTV Surveillance Camera packs the powerful features — including a Digital Signal Processor for low-light applications — you would expect from a high-end camera, yet delivers them in a package that offers outstanding value and reliability.

■ 1/3-Inch CCD with 290,000 Effective Pixels

JVC's TK-C700E comes with a 1/3-inch Interline Transfer (IT) CCD for accurate colour reproduction and crisp pictures with no image lag or distortion.

■ Detail Corrections — Horizontal and Vertical (2H)

The TK-C700E provides wide-ranging detail correction — horizontal and vertical, dual-edged with 2H line memory.

■ Built-in Digital Signal Processor (DSP)

JVC's innovative Digital Signal Processor (DSP) automatically adjusts camera parameters to ensure sharp, natural pictures (330 lines of horizontal resolution) in near total darkness.

■ Automatic Gain Control (AGC)

For pictures at just 0.75 lux, Automatic Gain Control (AGC) increases the camera's sensitivity as ambient light level falls.

■ Auto White-Balance with Manual Adjustment

Auto White-Balance is adjusted either automatically or manually over a colour temperature range of 2,900 to 8,000K, assuring flexible operation in a wide range of environments.

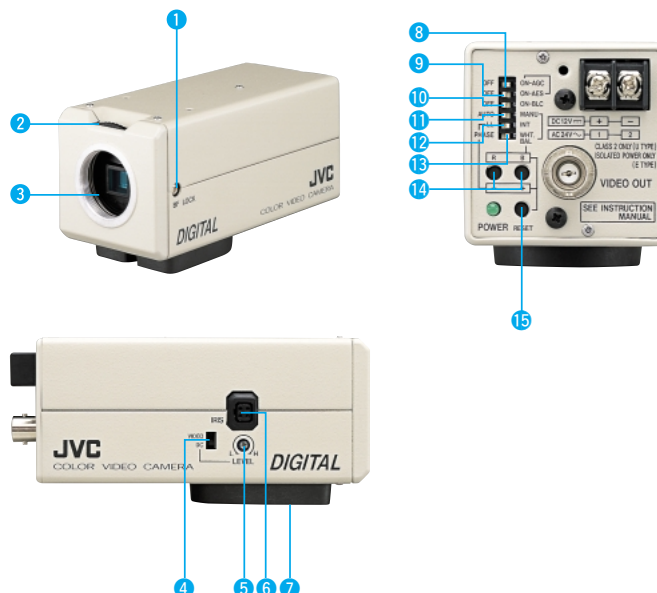
■ S/N Ratio of 50 dB (AGC Off)

The TK-C700E features a signal-to-noise ratio of 50 dB for sharp pictures with very precise colour reproduction.

Specifications

Signal system	Based on PAL standard
Pickup device	1/3" Interline-Transfer CCD (with complementary colour filter)
Number of effective pixels	290,000 (500 H x 582 V)
Video process circuit	Built-in DSP (9 bits)
Pickup area	4.8 (H) x 3.6 (V) mm
Sync system	Internal, Line Lock (50 Hz regions only)
Scanning system	2:1 interlaced, 625 lines
Scanning frequency	(H) 15.625 kHz (V) 50.0 Hz
Video output	Composite video signal: 1.0 V(p-p), 75 ohms
Video S/N	50 dB (AGC "OFF")
Horizontal resolution	330 TV lines
Minimum required illumination	0.75 lux (f1.2 AGC ON) — Video level 25% 1.5 lux (f1.2 AGC ON) — Video level 50%
Iris control	Video iris/DC iris
White balance	ATW/Manual
BLC	ON and OFF
AES	ON and OFF
Lens mount	C/CS mount (Possible to be attached to the camera with the lens mount change function.)
Power requirement	AC 24 V (50/60Hz), DC 12 V
Power consumption	290 mA
Operating temperature range	-10°C to 50°C (14°F to 122°F) Recommended temperature range: 0°C to 40°C (32°F to 104°F)
Weight	360 g

Controls, connectors and indicators

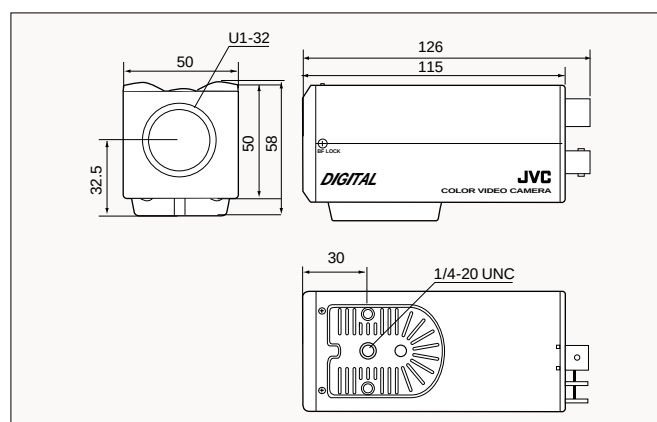


- 1 BACK FOCUS locking screw
- 2 BACK FOCUS adjustment and C/CS mount selector ring
- 3 Lens mount (C or CS)
- 4 VIDEO/DC IRIS switch
- 5 LEVEL volume
- 6 IRIS connector
- 7 Camera mounting bracket
- 8 AUTOMATIC GAIN CONTROL switch

- 9 AUTOMATIC ELECTRONIC SHUTTER switch
- 10 BACK LIGHT COMPENSATION switch
- 11 WHITE BALANCE select switch
- 12 LL/INT select switch
- 13 PHASE/W.B. select switch
- 14 PHASE/W.B. adjustment button
- 15 RESET button

Dimensions

Unit: mm



Design and specifications subject to change without notice.



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