JVC®

The Perfect Experience

0.015 lx *Super LoLux™*
(B&W mode)

0.45 lx *Super LoLux™*
(Colour mode)

1/3" CCD COLOUR VIDEO CAMERA

TK-C1430E
(AC 24V/DC 12V)

TK-C1431EG
(AC 220V—230V)

Automatic Day/Night operation

Specially designed to be a cost-effective solution for 24 hr surveillance, incorporating advanced camera features, including highlight handling and excellent performance in very low light.

COLOR VIDEO CAMERA

DIGITAL

BF LOCK

Day/Night

IR Cut Filter ON

IR Cut Filter OFF

* This is a simulated image

IR ON/OFF function ▶ The camera's IR cut filter switches itself automatically on or off according to whether it is day or night. Thus one single camera can be used for unattended 24 hr operation, providing colour images by day and B&W by night.

- 1/3" Ultra sensitive IT CCD with 440,000 effective pixels
- 480 TV lines of horizontal resolution
- Super LoLux™ sensitivity:
  - Colour mode: 0.45lx (F1.2, 25% video, AGC 20dB)
    - 0.014lx (F1.2, 25% video, AGC 20dB, slow shutter 32/50 sec.)
  - B&W mode: 0.015lx (F1.2, 25% video, AGC 20dB)
    - 0.00045lx (F1.2, 25% video, AGC 20dB, slow shutter 32/50 sec.)

- Backlight compensation (BLC), Highlight inverter
- DSP with Extended dynamic range (ExDR) function
- ATW/AWC white balance and manual paint
- Motion detection with alarm signal output
- Scene file memory by command (4 files)
- Dump command function
- 10x digital zoom available via remote control
- RS-422A and RS-485 interface

JVC's latest day/night surveillance tool is a high performance, low budget camera, rich in features and equally well suited to single and multi-camera installations.

Surveillance and security systems have an ever increasing part to play in our everyday lives. The TK-C1430E and TK-C1431EG have been skilfully designed to assist in that process by offering the three key features of being 24 hr operation, possessing the same functions as similar top-end cameras and having a keen price.

1/3" Ultra sensitive IT CCD with 440,000 effective pixels
TK-C1430E features a 1/3" Interline Transfer CCD. Advanced technology delivers totally faithful colour reproduction and an excellent signal-to-noise ratio of 50 dB.

Extended dynamic range (ExDR)
Conventional cameras cannot handle scenes that are strongly backlit and so they compromise security by delivering images with vital details lost in either pitch black or dazzling white. JVC's unique digital signal technology (ExDR) solves this problem by extending the camera's dynamic range. The camera utilises different shuttering techniques to capture different problem areas. For dark areas it uses low-speed shutter and, for bright areas, high-speed. It then recombines the best of both pictures to give one superbly clear and detailed image.

Motion detection function
The image view is divided into 48 separate sectors. In the set-up menu the user can designate the sectors where movement is to be auto-detected, so triggering an alarm signal. The set-up menu is smart and this serves to eliminate false alarms, making the TK-C1430E and TK-C1431EG very reliable surveillance device.

Full genlock
TK-C1430E and TK-C1431EG have built-in a dedicated full genlock terminal which can synchronise by either BB or VBS signal.

Remote operation
TK-C1430E and TK-C1431EG have built-in control interfaces for both RS-422A and RS-485, using two pairs of connectors for duplex operation or one pair for simplex.
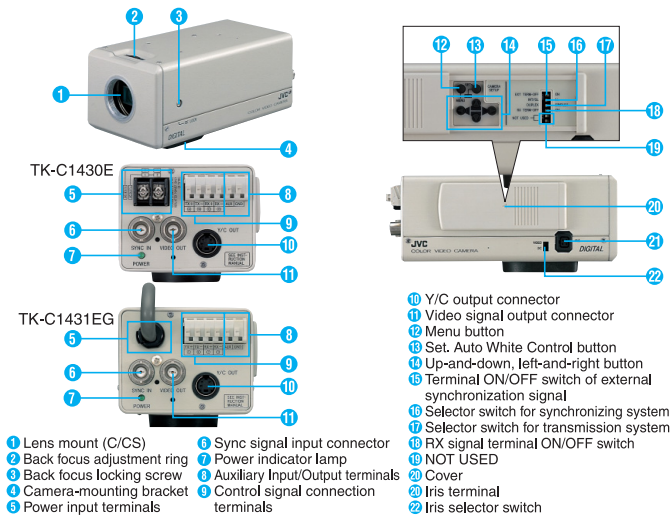
Separate output connectors for video and Y/C
The video signal is output via a BNC connector and Y/C via a 4-pin mini DIN.

Simple Menu-Driven operation
Menus make it easy to change or adjust settings on-screen. Just choose the iris level, enhance level, AGC level and ATW/AWC that suit your application.

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—— MENU ——
> SYNC ADJUST...
  ALC SETTING...
  MODE SELECT...
  MOTION DETECT...
  COMMUNICATION...
  FACTORY SETTINGS...
```
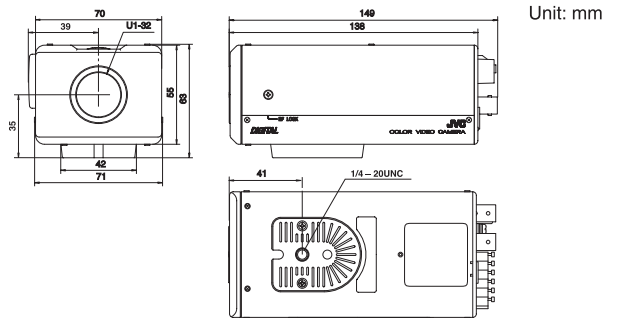
Controls, connectors and indicators

TK-C1430E

TK-C1431EG

1 Lens mount (C/CS)
2 Back focus adjustment ring
3 Back focus locking screw
4 Camera-mounting bracket
5 Power input terminals
6 Sync signal input connector
7 Power indicator lamp
8 Auxiliary Input/Output terminals
9 Control signal connection terminals
10 Y/C output connector
11 Video signal output connector
12 Menu button
13 Set. Auto White Control button
14 Up-and-down, left-and-right button
15 Terminal ON/OFF switch of external synchronization signal
16 Selector switch for synchronizing system
17 Selector switch for transmission system
18 RX signal terminal ON/OFF switch
19 NOT USED
20 Cover
21 Iris terminal
22 Iris selector switch

Specifications

Model	TK-C1430E/1431EG
Signal system	PAL
Image device	1/3" IT CCD
Number of effective pixels	440,000 (752H x 582V)
Sync systems	Internal, Line lock, Full genlock
Video output	Composite
Y/C output	Y/C video signal (4-pin)
Video S/N ratio	50dB(AGC OFF)
Horizontal resolution	480TV lines
Minimum illumination (Figures quoted are typical readings)	
Colour mode:	0.9lx (F1.2 50% video, AGC 20dB)
	0.28lx (F1.2, 50% video, AGC 20dB, slow shutter 32/50 sec.)
	0.45lx (F1.2, 25% video, AGC 20dB)
	0.014lx (F1.2, 25% video, AGC 20dB, slow shutter 32/50 sec.)
B&W mode:	0.03lx (F1.2, 50% video, AGC 20dB)
	0.0009lx (F1.2, 50% video, AGC 20dB, slow shutter 32/50 sec.)
	0.015lx (F1.2, 25% video, AGC 20dB)
	0.00045lx (F1.2, 25% video, AGC 20dB, slow shutter 32/50 sec.)
Communication	RS-422A and RS-485. Simplex and Duplex operation.
Dump64	Yes
White balance	ATW/AWC (manual paint)
ExDR	Auto / Manual
BLC	ON/OFF 6patterns (2edits)
Highlight inverter	Yes
AES	1/50 – 1/100,000 sec.
Electronic shutter	1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
AGC	OFF/10dB/20dB/Super
Slow shutter	32x
Digital zoom	10x
Lens mount	C/CS
IR cut filter	ON/OFF
Motion detection	Yes
Scene file	Yes
Set up menu	Enhance, pedestal, iris, colour, AV:pk
LL phase adjust	Yes
H phase adjust	Yes
SC phase adjust	Yes
Camera ID	24 characters
Spot compensation	15
Power supply	AC 24V/DC 12V (TK-C1430E), AC 220 – 240V (TK-C1431EG)
Power consumption	530mA (TK-C1430E), 75mA (TK-C1431EG)
Weight	620g (TK-C1430E), 840g (TK-C1431EG)
Accessories	4-pin plug x 1
	Ferrite core x 1
	Instructions x 2

Dimensions

Unit: mm

Remote control unit RM-P2580E

▶ Dome camera preset position and menu setting for TK-C676E(B) and TK-C655E(B)
▶ Camera menu setting for TK-C1430E and TK-C1431EG
▶ Built-in 8-ch sequential switcher function
▶ Auto panning, Auto patrol mode
▶ Auto alarm operation
▶ Multi alarm inputs/outputs
▶ 8 Video inputs/outputs with auto termination
▶ Area title
▶ Operation lock function
▶ Interface: RS-485 for camera and RS-232C for external

Design and specifications subject to change without notice.