JVC CCTV and Network Systems

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JVC CCTV and Network Systems

Video Camera Systems, Network Camera Systems, Time-Lapse Recorders
Video Monitors, Camcorder
Video System Components and Accessories

1) Colour Video Cameras

TK-C400E / 401EG	1/3" CCD, DSP, High sensitivity, standard resolution
TK-C420E / 421EG	1/3" CCD, DSP, High resolution
TK-C1360BE	1/2" CCD, DSP, High resolution, slow shutter, RS-422 control, Y/C
TK-C1380E	1/2" CCD, DSP, High resolution, menu control,Y/C (24VAC/12V DC)
TK-C1381EG	1/2" CCD, DSP, High resolution, menu control,Y/C (230V AC)
TK-S542E	1/3" CCD, High resolution, Single coax for power and video
TK-N1100E	2-CCD, 1/3" High resolution Colour / infra-red

1.5) Computer Imaging (CI) Colour Video Cameras

KY-F55E	3-CCD, 1/3", C mount
KY-F58E	3-CCD, 1/3", C mount separate head

2) Dome Colour Video Cameras

TK-C675BE	Dome colour camera, 1/3" CCD, x16 zoom, pan/tilt, RS-422/485
	System and accessories
RM-P2580E	Remote control with switcher for 8 dome cameras
	Systems and specifications

Colour, CI, Dome Camera specifications

3) Network Colour Video Cameras

VN-C1U	V.NETWORKS 10 Mbps Ethernet Network Camera
VN-C2U	V.NETWORKS 10 Mbps Ethernet Network Camera with Pan and Tilt

System and Specifications

4) Black and White Video Cameras

TK-S241E	1/3" CCD, 24V AC, 12V DC
TK-S340EG	1/3" CCD, 230V AC
TK-S350EG	1/3" CCD, high resolution, 230V AC
TK-S140E	1/3" CCD, Single coax for power and video, with i.e. TM-9043EG monitor

B/W camera specifications

5) Time-lapse Recorders

SR-L910E	24 hr video/audio VHS	K model UK mains lead
SR-L901E	24 hr “Real Time” video/audio recorder	K model UK mains lead
SR-9240E	10 day (240 hr) video (24hr audio)	K model UK mains lead
SR-9080E	40 day (960 hr) video (24hr audio)	K model UK mains lead
SR-S970E	40 day (960 hr) video (24hr audio) S-VHS	K model UK mains lead

Time-lapse Specifications

Design and specifications subject to change without notice.

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6) Colour Monitors

TM-A10E	10", 1x Composite PAL	K model UK mains lead
TM-A14PN	14", 1x Y/C(4pin), 2x Composite, PAL/NTSC (plastic case)	K model UK mains lead
TM-A140PN	14", 1x Y/C(4pin), 2x Composite, PAL/NTSC	K model UK mains lead
TM-1700PN	17", 1x Y/C(4pin), 2x Composite, PAL/NTSC	K model UK mains lead
TM-2100PN	21", 1x Y/C(4pin), 2x Composite, PAL/NTSC	K model UK mains lead
TM-2100E	21", 1x Y/C(7pin), 2x Composite, PAL	
TM-290ZE	29", 1x Y/C(4pin), 2x Composite, PAL/NTSC/SECAM	

Colour monitor specifications

7) Black and WhiteMonitors

TM-9043EG	9" Monitor/4-channel seq. switcher w/power for up to four TK-S140E cameras
TM-923E	9" Single channel monitor
TM-123E	14" Single channel monitor

Black and white monitor specifications

8) Video System Components and Accessories

GR-DLS1E	Compact digital still camera / camcorder
TK-C50E	2 channel video splitter
TK-U1003EG	Single coax camera control unit
TK-U1004EG	Single coax camera control unit with camera ID
TK-U1402EG	Single coax camera control unit for 4 cameras
	Single coax specifications
SW-201U	Manual video switcher, 5 input
SW-202U	Manual video switcher, 10 input
SW-501EG	Sequential video switcher, 8 input (No CE)
SW-502EG	Sequential video switcher, 20 input (No CE)
DU-102EG	Video signal distributor, 2 input, 3 output each
DU-401EG	Sync signal distributor, 2 input, 3 output each (No CE)
SG-101EG	Sync signal generator (No CE)
DU-501EG	Coax cable compensator up to 1.2 km (No CE)
DU-502EG	Twisted pair cable transmission system up to 1.2 km

Accessories Full list

Design and specifications subject to change without notice.

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COLOUR VIDEO CAMERAS

1/3-inch CCD Colour DSP CCTV Video Camera

TK-C420E 24 V AC/12 V DC
TK-C421EG 220 V - 240 V AC

TK-C400E 24 V AC/12 V DC
TK-C401EG 220 V - 240 V AC

TK-C420E/TK-C421EG

- **High-resolution 1/3 inch Interline transfer (IT) CCD with 440K pixels (470 TV lines horizontal resolution)**

TK-C400E/TK-C401EG

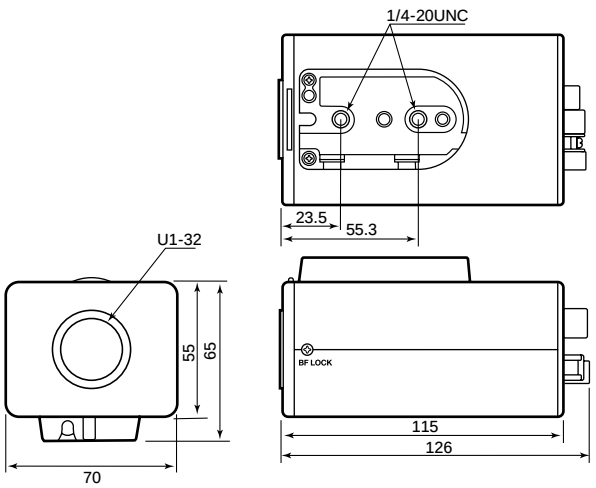
- **High-sensitivity 1/3 inch Interline Transfer (IT) CCD with 290K pixels with no image lag or distortion (0.9 lux at F1.2)**

Both TK-C420E and TK-C400E

- **Digital Signal processor automatically adjusts parameters to ensure sharp, natural colour pictures in a wide range of lighting conditions, even near total darkness**
- **Automatic gain control (AGC) adjusts gain as ambient light sensitivity changes for fully exposed pictures even at 1.5 lux (TK-C420E) and 0.9 lux (TK-C400E)**
- **White balance is adjusted either automatically (Auto-white) or manually over colour temperature range from 2,900K to 8,000K, assuring accurate rendition under varying lighting conditions**
- **Quiet signal to noise ratio of 48 dB**
- **Wide range detail enhancement in both horizontal and vertical; dual edged with 2H line memory**

TK-C420E/TK-C400E

TK-C421EG/TK-C401EG



Design and specifications subject to change without notice.

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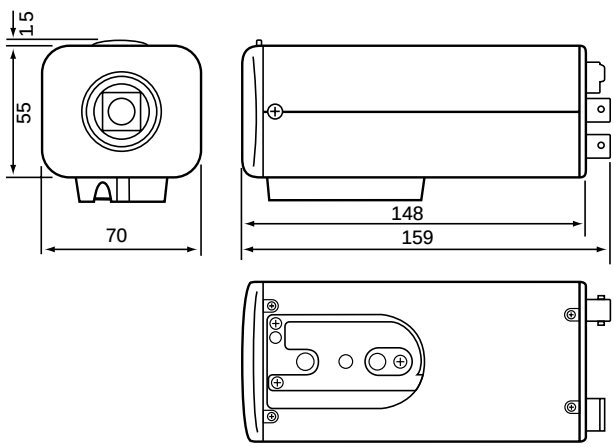
COLOUR VIDEO CAMERAS

1/2" CCD RS-422A Control DSP Colour Camera

TK-C1360BE 24 V AC / 12 V DC

- 1/2 inch IT CCD (440k pixels)
- 470 TV Lines resolution
- Signal to noise ratio of 48 dB
- 0.95 lux minimum illumination with normal shutter (at F1.2, 25 percent, AGC on)
- Captures sharp images down to 0.03 lux with slow shutter
  (at F1.2, 25 percent, AGC on) thanks to field integration
- Digital signal processing (DSP) adjusts to deliver top quality pictures under difficult operating conditions:
  Automatic shutter from 32/50 to 1/100,000 sec
  3-D Auto white balance
  Peak White highlight inverter
  Backlight compensation (BLC)
  Dual edge 2H detail enhancement
- RS-422A control
- Simple menu controls, wide range of settings, manually or via RS-422A control
- Camera ID overlay for multi-camera surveillance
- C or CS lens mount capability
- Compact size, ruggedly built
- Minimal weight just 660 g
- Two way power supply; AC 24 V, DC 12 V
- Y/C output
- One push auto white balance (AWC)



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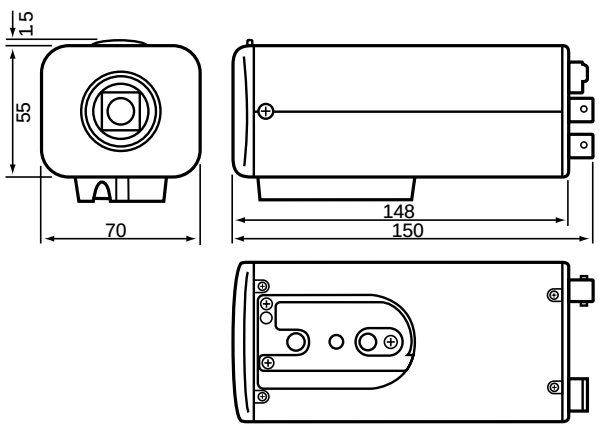
1/2" CCD Multi-Purpose Colour Camera

TK-C1380E 24 V AC / 12 V DC
TK-C1381EG 230 V AC

- 1/2-inch Interline Transfer (IT) CCD
- Digital Signal Processor (DSP)
- Internal, External (Full genlock) and line lock system
- Contour correction
- ID capability
- Three-dimensional detect ATW (Auto Tracking White Balance)
- AGC (Automatic Gain Control) boosts sensitivity below preset light levels
- Wide-range Automatic Electronic Shutter
- Y/C Output Connectors
- Easy Menu-driven Parameter Setting
- Peak White inverter function
- Backlight Compensation
- C/CS Mount
- AC 24V/DC 12V Power Suppply

TK-C1380E

TK-C1381EG



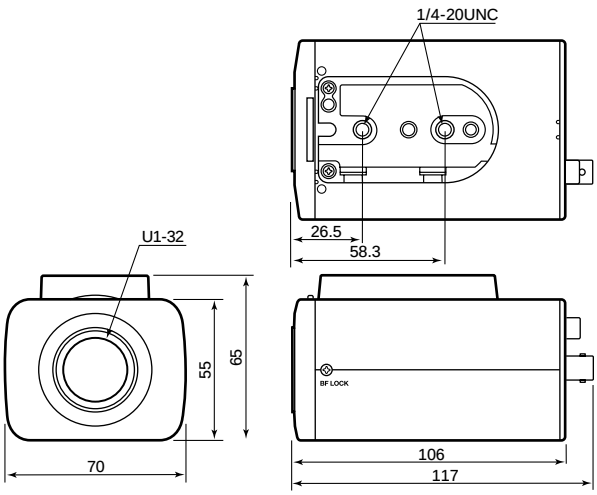
COLOUR VIDEO CAMERAS

1/3" CCD Single Cable Video/Power Camera

TK-S542E

(please check for world-wide availability)

- **JVC's advanced 1/3" CCD comprises 440,000 pixels delivering 460 lines of horizontal resolution**
- **Minimum required ilumination is just 2 lux at F1.2**
- **S/N ratio: 46 dB**
- **Incorporates a unique digital signal processing IC for stable colour reproduction**
- **Four types of backlight compensation modes and TTL auto-tracking white balance ensure optimum picture quality under backlit lighting conditions**
- **Built-in character generator**
- **An innovative multiplexing system feeds pictures, power, and sync through a single coaxial cable for enhanced operability and easy connection. A cable length selector switch optimises functions for coaxial cable lengths up to 500 m between camera and camera control unit.**



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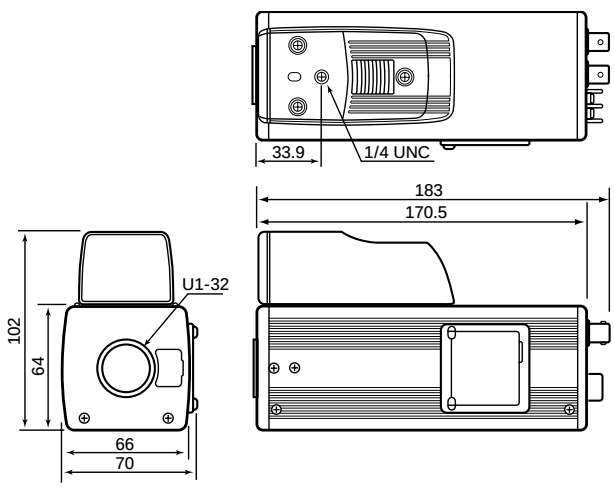
1/3" Twin CCD Colour/Infrared Video Camera

TK-N1100E 24 V AC/12 V AC

(please check for world-wide availability)

- **JVC's revolutionary Self-Selecting Colour or IR camera features interline-transfer system 1/3" colour CCD image sensors, delivering 460 lines of horizontal resolution with a low light sensitivity of 2 lux. The IR mode is automatically triggered when the video signal drops to a pre-determined level, thus providing crisp black and white images down to zero lux illuminance under infrared illumination, invisible to human eye. An infrared illuminator lights automatically when the black and white mode is set.**
- **The built-in electronic shutter offers a choice of nine shutter speeds from 1/50 (PAL) or 1/60 (NTSC) to 1/10,000 second, with either automatic or manual setting.**
- **The TK-N1100 has an advanced automatic gain control (AGC) function that automatically increases the camera's sensitivity when ambient light drops below a preset level.**
- **TTL auto tracking white balance adjustment accurately matches white balance with shooting conditions. A manual override brings additional flexibility (2 axes; G-Mg and R-B).**
- **External sync input (composite or black burst) for genlock operation is available via a BNC connector. The camera automatically switches to external sync when the reference signal is applied.**



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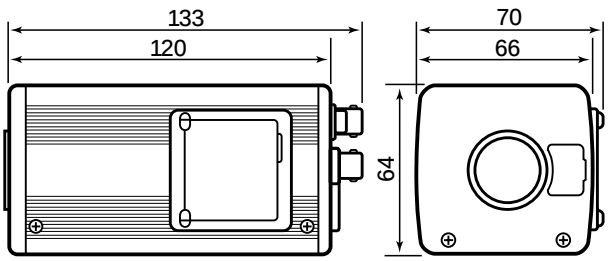
1/3-inch 3-CCD High Resolution Video Camera

KY-F55BE

- C-Mount compatibility
- Random Trigger for strobe synchronisation
- Slow Shutter for low light image capture
- High-resolution Frame Integration Mode
- Variable speed electronic shutter
- Compact and lightweight
- EBU type colour bar generator
- Full-time Auto/Manual White Balance and Two Auto White memories
- Enhanced Automatic Level Control (ALC) with Extended Electronic Iris (EEI)
- White shading correction
- Wide range of video outputs
- Auto Internal Sync/External Sync switching
- Flexible camera mountings
- RS-232C interface capability
- Optional microscope adapters
  - RS-232C cable
    - VC-P893U for PC
    - VC-P894U for Mac
  - AC-Power adapter
    - AA-P700E
  - RGB monitor and graphic board cables
  - Microscope adapters

HZ-G6350
Variable focal lens

T14x5.5MDU
14:1 Motorised zoom lens



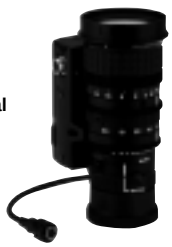
COMPUTER IMAGING (CI) COLOUR CAMERAS

1/3-inch 3-CCD Separate Camera Head System

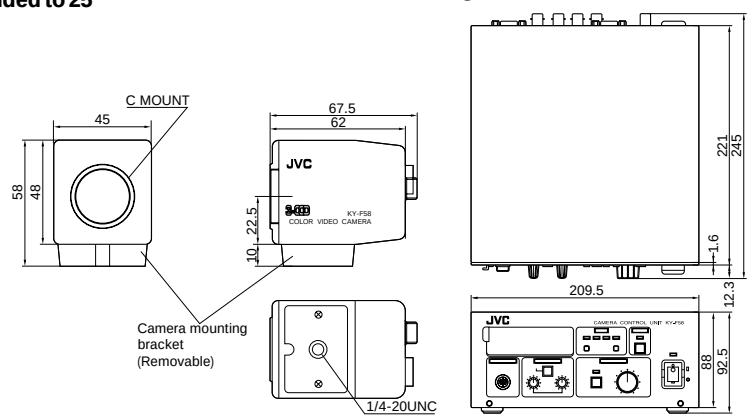
KY-F58E

- **3-CCD RGB prism block, each CCD with 440,000 effective pixels, provides high resolution images**
- **High sensitivity means that images can be captured over a wide range of lighting conditions**
- **Complementing the Auto White-Balance function is intelligent Auto Iris which makes the KY-F58 particularly well-suited to microscopy and other applications which may have irregular reflections**
- **The CCU features an RGB image memory and framestore which allows capture of a high quality still image**
- **The KY-F58 has instant connectivity to a wide range of existing optical equipment thanks to its C-mount being a universal standard for lens to camera coupling. The camera head also includes connection for motorized lens control**
- **An RS-232C port is provided for direct connection to a PC, providing additional remote serial digital control**
- **The KY-F58 comes standard with a 5-meter umbilical cord between head and CCU. This may be extended to 25 meters**
- **Memory for up to 16 operator settings (scene files)**
- **Built-in key functions: Shutter iris/Full-time auto white/Freeze function/Random trigger function/Long time exposure function**
- **Optional microscope adapters**
  - **HZ-M161U (Nikon microscope adapter)**
  - **HZ-M162U (Olympus microscope adapter)**
  - **HZ-M163U (Zeiss microscope adapter)**
- **Camera cable**
  - **VC-P805U (5 m)**
  - **VC-P810U (10 m)**

HZ-G6350
Variable focal lens



T14x5.5MDU
14:1 Motorised zoom lens



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DOME COLOUR VIDEO CAMERAS

Presettable Dome Colour Camera

TK-C675BE

- 64 pre-settable positions
- Large aperture lens and highly sensitive CCD; minimum illumination 2.8 lux
- High quality optical distortion compensating dome cover
- 16X 4.5 to 72 mm zoom ratio; F 1.2 at wide angle
- Maximum 2 second zoom speed
- Wide coverage angle; Horizontal 3.8 to 56 degrees, vertical 2.9 to 44 degrees
- 360 degree endless panning
- Maximum 240 degree/second panning speed
- 180 degree “Auto Flip” flips the camera over by 90 degrees at the tilting limit so that tilting can continue.
- One-touch auto focus capability
- RS-422/RS-485 control for point to point and multi-drop connection
- Machine ID up to 32
- With three Preset Sequence (Auto Patrol) Mode setting 64 presettings, the TK-C675BE provides surveillance coverage of an area by panning either at random or sequentially.
- The Area Title function divides the space covered by a camera into sixteen units, with a 16-character ID allocated to each unit. At the touch of a button the user can accurately position the camera to view a designated area.
- The camera can be set up for automatic panning to constantly patrol the area under surveillance.
- Auto panning function. The camera can be set up for automatic panning toconstantly patrol the area under surveillance.

TOP VIEW

BOTTOM VIEW

View when the camera body cover is removed.

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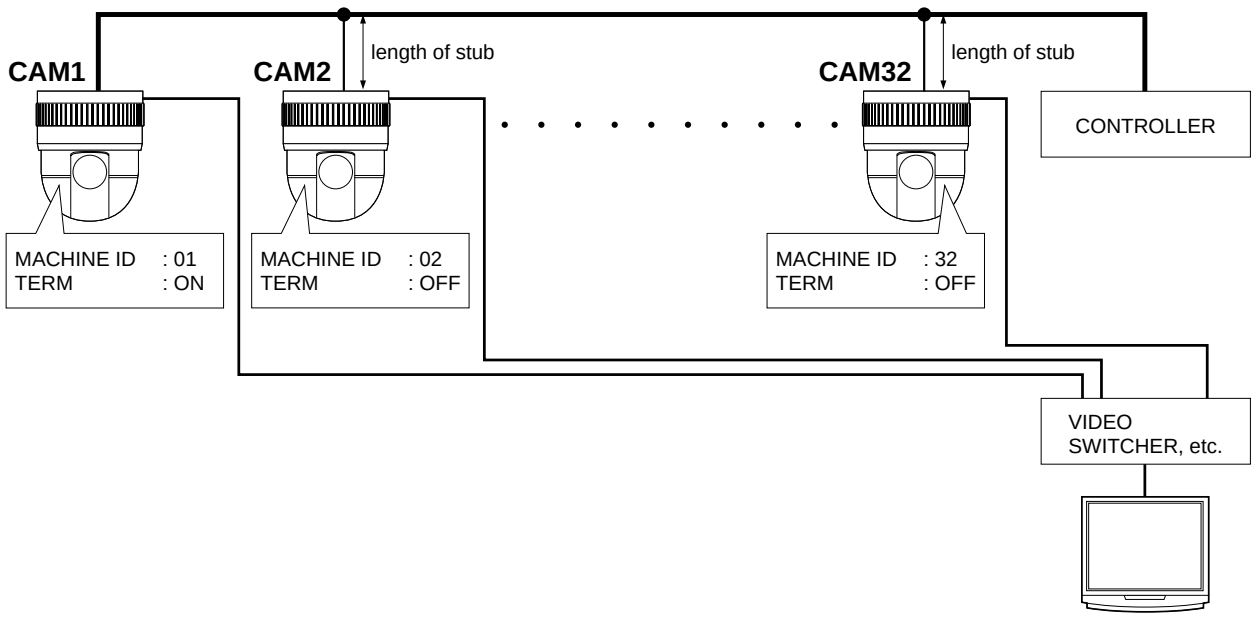
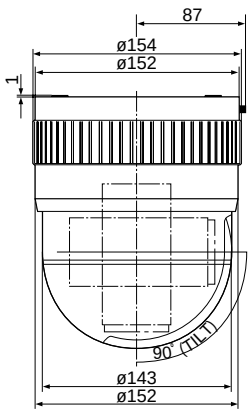
DOME COLOUR VIDEO CAMERAS

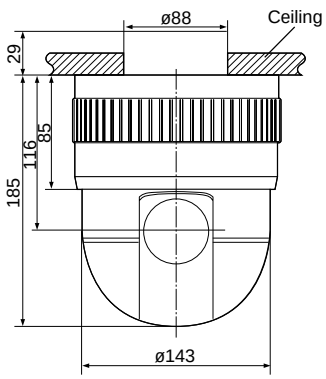
Presettable Dome Colour Camera

TK-C675BE

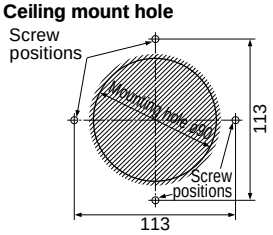
Basic system







Ceiling mount hole



Options

WB-S571U
Ceiling hanger pole

WB-S572U
Wall mounting bracket

WB-S573U
Ceiling direct mounting bracket

WB-S575U
Ceiling embedding bracket

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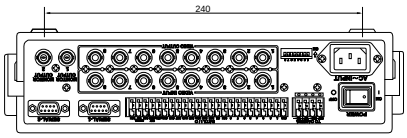
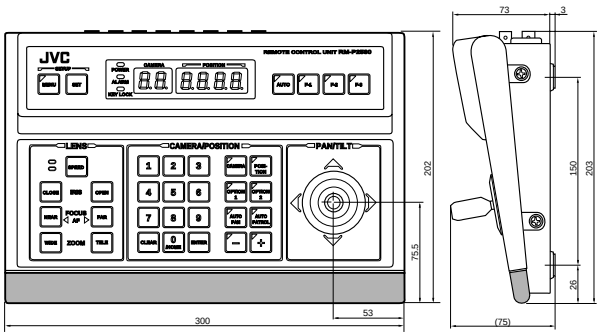
8 Channel Remote Control Surveillance System

RM-P2580E 8 Camera Control and Switching

- Control Pan, Tilt, Zoom, Focus, Iris and Set-up menus on up to 8 TK-C675B dome cameras independently, at a distance of up to 1.2 km (3900 feet) of communication cable.
- Joy-stick and Push button control.
- Built-in 8 channel programmable sequential switcher, providing control of dwell times and sequence order.
- Auto Panning movements can be programmed for each camera.
- Auto Patrol programs can be set to select from up to 8 speeds, accross 64 preset positions on each camera, with parameters including dwell time and sequence order.
- Auto Alarm Operation:
  Alarm Priority mode interrupts pre-programmed operations to view a scene associated to the alarm activated. Visual and audio alarms can be activated, as well as triggering peripheral equipment.
  Manual Priority mode displays the camera ID of the affected area, but operation remains unaffected
- Control of Area title function, allocates a 16 character ID to 16 pre-set camera areas, and allows one touch positioning to those areas.
- One Push Auto Focus.
- Operation Lock function disables joystick and keypad to prevent operating errors.
- Remote Control Interfaces: RS-485 for camera, RS-232C for external units such as Time-lapse VTR or frame switcher.
- 8 video inputs with additional 8 loop through outputs.





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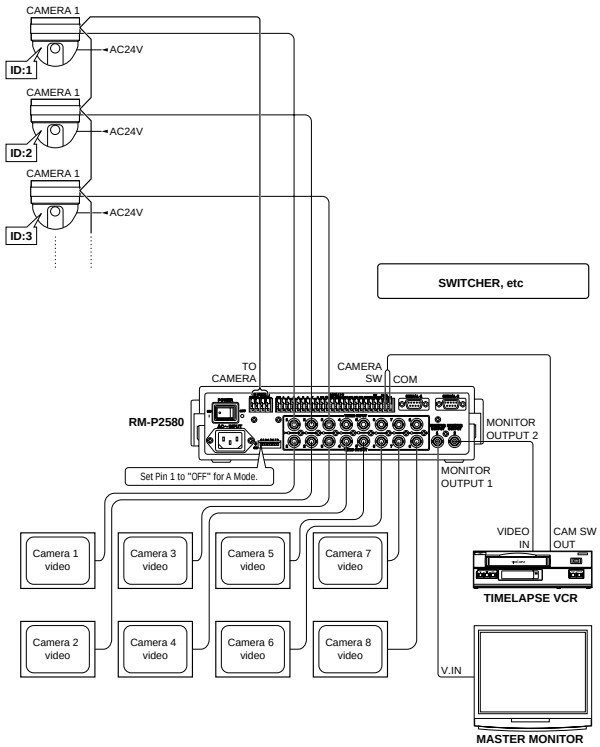
DOME COLOUR VIDEO CAMERAS

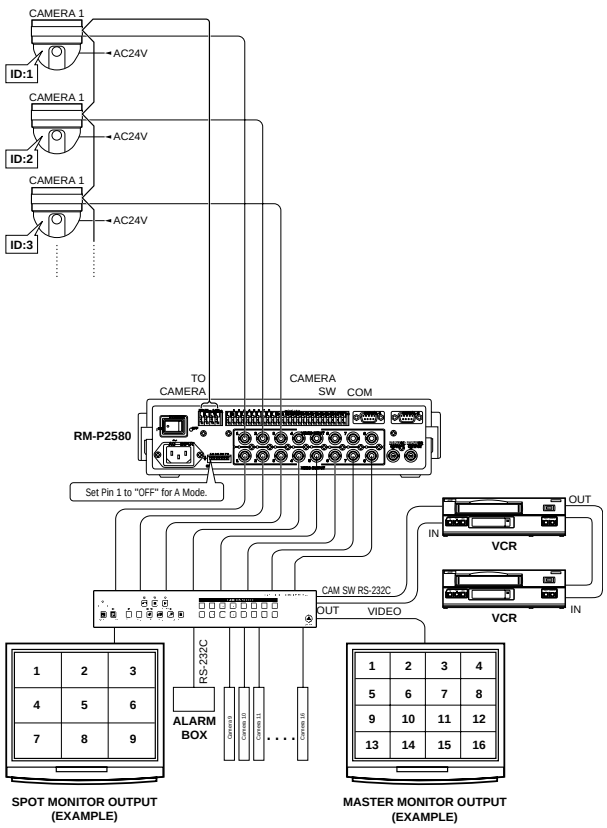
8 Channel Remote Control Surveillance System

RM-P2580E 8 Camera Control and Switching

Basic System



Applied System



Specifications

Controllable camera	TK-C675B
Number of Connectable cameras	Mode A: 8 units Mode B: 16 units
Cable length	Up to 1.2 km, 3900 feet
Date I/O terminals	Up to 16
Alarm Inputs/outputs	Up to 16
Unit alarm output	1 line (open collector)
Auto output	1 line (open collector)
Camera switching circuit	1

Video I/O	
Number of inputs	8 BNC (loop through) line levelComposite, 1V (p-p)
Number outputs	2 BNC
Supply voltage	AC 100 — 240V
Power consumption	Approx. 3W
Ambient temperature	(operating)-10 to 50 degrees C (recommended) 0 to 40 degrees C
Weight	Approx. 1.5 kg
Dimensions	300 (W) x 73 (H) x 203 (D) mm

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COLOUR, CI, DOME CAMERAS

Specifications

	TK-C400E	TK-C401EG	TK-C420E	TK-C421EG	TK-C1360BE	TK-C1380E	TK-C1381EG
Signal System	Based on PAL standard		←	←	←	←	←
Image device	1/3" Interline Transfer CCD with complementary colour filter				1/2" Interline Transfer CCD with complementary colour filter (Ye-Cy -MG-Gr)		
Effective picture elements	290K 500Hx582v	290K 500Hx582v	440K 752Hx582v	←	←	←	←
Video Process circuit	9 bit digital processor (DSP)		←	←	←	←	←
Sync system	Internal/Line lock (50 Hz regionsl only)		←	←	Internal, Line lock, External (full genlock)		
Sync input	na	←	←	←	BB or VBS (BNC)	←	←
Scanning frequency (normal)	(H) 15,625 Hz/(V) 50.0 Hz		←	←	←	←	←
Video output	Composite video signal (VBS), 1Vp-p 75 ohms unbalanced BNC			←	Composite video signal (VBS), 1Vp-p, 75 ohms unbalanced BNC Y/CS terminal 4-pin		
Video S/N	48 dB (AGO off)	←	←	←	←	←	←
Horizontal resolution	330 TV line	←	470 TV line	470 TV lines	←	←	←
Minimum required illumination	0.9lux (F1.2) AGC on	0.9lux (F1.2) AGC on	1.5lux (F1.2) AGC on	1.5lux (F1.2) AGC on	0.95lux (F1.2) normal shutter 0.03lux (F1.2) (slow shutter)	0.95lux (F1.2) normal shutter na	← na
Electronic shutter	1/50 (normal)	←	←	←	1/50(normal), 1/120,1/250, 1/50,1/1000, 1/2000,1/4000, 1/10,00,1/100,000 sec or AES	1/50(normal),1/120,1/250,1/50,1/ 11000,1/2000,1/4000,1/10,00,1/ 100,000 sec or AES	
AES (automatic electronic shutter)	1/50- 1/10,000 sec	←	←	←	33/50-1/100,000 sec	1/50-1/100,000 sec	←
Slow shutter	na	←	←	←	2/50,4/50,8/50, 16/50,32/50 sec	na	←
Auto Iris output	Video, DC(adjustable)	←	←	←	←	←	←
White Balance	Atomatic tracking white balance (ATW), Manual				3 dimension detection ATW, Manual (Biaxial)		
BLC (backlight compensation)	on/off	←	←	←	on/off, multi-data detection6 patterns		←
AGO (automatic gain control)	on/off	←	←	←	Off, +9 dB, +18dB, Super AGC		←
Camera ID	na	←	←		yes	←	←
Setup menu	na	←	←	←	Sync select, phase control, chroma phase, brightness, Iris level, detail, AGC select, shutter speed, BLC, white balance selection and control, Highlight inversion, gain on/off/up, camera ID	Sync select, phase control, chroma level, chroma phase, brightness, Itis level, detail, AGC select, shutter speed, BLC, white balance selection and control, Highlight inversion gain on/ off/up	
Remote controlinput	na	←	←	←	RS-422A (8-pin round din connector)	na	←
Lens mount	C or CS mount	←	←	←	←	←	←
Power suppy requirement	24 Volt AC 50/60 Hz, 12V DC	220-240V AC 50/60 Hz	24 Volt AC 50/60HZ, 12V DC	220-240V AC 50/60 Hz	24 Volt AC 50/60 Hz 12V DC	24 Volt AC 50/60 Hz 12V DC	230V AC 50/60Hz
Power Consumption (max)	4W	4W	4W	4W	440mA at AC 24V (6.6W) 550mA at AC 12V(6.6W)	380mA at AC24V (5.6W) 470 mA at DC 12V(5.6W)	60 mA(5.6W)
Operating tempurature range	-10 to 50 deg C	←	←	←	←	←	←
Weight	510g	750g	510g	750g	640g	640g	880g
Cable length	na	approx. 2.4m	na	approx. 2.4m	na	na	approx. 2.4m

Design and specifications subject to change without notice.

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COLOUR, CI, DOME CAMERAS

Specifications

Specifications

	TK-S542E
Signal System	Based on PAL standard
Image device	1/3" Interline transfer CCD with complementary colour filter Ye-Cy-Mg-Gr
Effective Picture elements	440,000
Video process circuit	DSP
Sync system / input	External Special sync signal from exclusive CCU
Scanning frequency (normal)	H:15.625 kHz, V: 50Hz
Video output	Camera output to CCU: 0.7V(p-p) Monitor output: 1.0V(p-p) high impedance
Video S/N	46 dB
Horizontal resolution	460 TV lines
Minimum required illumination	2 lux (F1.2, AGC 20 dB)
Electronic Shutter	Normal 1/50, 1/120
AES (automatic electronic shutter)	-na
Slow shutter	-na
Auto Iris output	Video iris: for lenses having 0.7V (p-p), 9V DC, 30 mA or less DC iris: Drive 0.5V to 4 V, 25 mA or less; contorl 1K ohm standard
White balance	Auto/manual 2500 deg K to 7000 deg K
BLC (back light compensation)	4 mode, on/off On/off
AGC (automatic gain control)	0 to 20 dB, on/off
Camera ID	From CCU
Setup menu	-na
Remote control input	-na
Lens mount	C/CS mount
Power supply requirement	From CCU: 15V to 21V DC, 290 mA
Power consumption	120 mA (22V) to 160 mA (16V)
Operating tempurature range	-10 to 50 deg C
Weight	440 g
Cable length	Long (up to 500 M) or short compensation

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Design and specifications subject to change without notice.

COLOUR, CI, DOME CAMERAS

Specifications

	TK-C675BE	TK-N1100E
Signal system	Based on PAL standard	←
Image device	1/3" Interline Transfer CCD with complementary colour filter	1/3" Interline Transfer CCD with complementary colour filter (Ye-Cy -MG-Gr) and 1/3" Infared CCD
Effective picture elements	440K pixels (753H x 582V)	←(each)
Video process circuit	Analogue	←
Sync system	Internal / Line lock	Internal, Line lock (50 Hz only)
Sync input	BB or VBS (BNC)	←
Scanning frequency (normal)	(H) 15,625 Hz /(V) 50.0 Hz	←
Video output	Composite video signal (VBS), 1Vp-p 75 ohms unbalanced BNC	←
Video S/N	48 dB (AGC off)	50 dB
Horizontal resolution	470TV lines	←
Minimum required illumination	2.8 lux (F1.2) AGC on	2 lux (F1.2 AGC on ,color mode) 0 lux (infrared illumination on, black and white mode)
Electronic shutter	Auto	1/50 (nomal), 1/60, 1/120, 1/250, 1/1000, 1/2000, 1/4000, 1/10,000 sec or AES
AES (automatic electronic shutter)	1/50-1/10,000 sec	←
Slow shutter	na	na
Auto Iris output	na	video, DC
White Balance	Atomatic tracking white balance(ATW), Manual	3 dimension detection ATW, Manual (Biaxial G-Mg, R-B)
BLC (backlight compensation)	4 patterns/off	←
AGC (automatic gain control)	on/off	←
Camera ID	sixteen characters	na
Setup menu	yes	na
Remote control input	RS-422A full duplex, RS-485	←
Lens mount	na	C mount, thread depth limitedto 5.5 mm maximum
Power supply requirement	24Volt AC, 50/60 HZ	24 Volt AC +/-10%, 50Hz 12V DC +/- 10%
Power Consumption	Approx. 1.4A	13W (with infrared illuminatin on 7.5W (with infrared off)
Operating tempurature range	- 10 to 50 deg c	←
Weight	2 kg	700 g
Cable lenth	na	na
Zoom Ratio	16 x, 4.5 to 72 mm	user lens
Iris Range	F 1.2 to F 272	na
Zoom speed	2 seconds end to end	na
Focus speed	approx. 1 second (one push)	na
Panning	360 degrees enldess	na
Panning speeds	240,80, 60, 40, 20, 12, 6, 4, 2 degrees/sec	na
Tillting speeds	120, 60, 40, 30, 20, 10, 6, 2, 1 degrees/sec	na
Limit of infrared Illumination	na	3 meters
Auto illumination	na	in Black and White mode (Auto set to ON)

Design and specifications subject to change without notice.

JVC PROFESSIONAL

COLOUR, CI, DOME CAMERAS

Specifications

Specifications

	KY-F55BE	KY-F58E
Signal System	Based on PAL standard	←
Image device	1/3 inch interline transfer CCD x3	←
Optical system	1/3 inch F1.4 RGB 3-colour separation prism	←
Effective Picture elements	440,000 (752 x 582)	←
Video process circuit	Analogue	←
Colour system	Wide-band R-Y, B-Y encoder	←
Sync system / input	Internal / External	Internal / external
Genlock input	VBS, BB, 1V(p-p), 75 ohms (or black burst signal) BNC connector	VBS with colour lock(BNC) or HD/VDV without colour lock (BNC)
Scanning frequency (normal)	H:15.625 kHz, V: 50Hz	←
Video output	Composite: VBS 1.0V(p-p), 75 ohms Y/C 443: (on D-sub) Y signal: 1 V(p-p), 75 ohms C signal: 0.3 V(p-p),(burst level) 75 ohms RGB signals: 0.7V(p-p), 75 ohms Composite sync signal: 2 V(p-p), 75 ohms	Composite: VBS 1.0V(p-p), 75 ohms Monitor: VBS 1.0V(p-p), 75 ohms Y/C 443: (on 4 pin Din) Y signal: 1 V(p-p), 75 ohms C signal: 0.3 V(p-p), burst level) 75 ohms RGB signals: 0.7V(p-p), 75 ohms D-sub 9-pin Component: D-sub 9-pin Y: 1V(p-p), 75 ohms R-Y/B-Y: 0.525 V(p-p) 75 ohms Composite sync signal: 2 V(p-p), 75 ohms
Colour bar generator	EBU type	←
Video S/N	58 dB	←
Registration	0.05% (typical)	←
Horizontal resolution	750 TV lines(Y channel), 580 TV lines R,G,B	700 TV lines (Y channel)
Sensitivity	F5.6, 2000 lux	←
Gain	By remote: 0,+6,+9,+12,+18 dB/ ALC+EEI	0, to +18 dB
	By camera: 0/ALC, EEI, ALC+EEI	EEI
Minimum required illumination	15 lux, 0.03 lux (slow shutter)	16 lux, 0.04 lux (slow shutter)
Electronic Shutter	Normal 1/50, 1/120, 1/250, 1/500, 1/ 1000, 1/2000 sec, Variable scan	←
EEI (Extended electronic Iris = automatic electronic shutter)	Yes	←
Variable scan	1/60.3 to 1/2074.6	←
Slow shutter	Yes	Yes
Random External Trigger:	5-pin, 5 V(p-p)	Strobe(BNC), WEN: write enable (BNC), Freeze (BNC)
Detail correction	Horizontal: dual edged Vertical: single edged	Horizontal: dual edged Vertical: single edged
	(adjustable through RM-LP55U)	
Lens connection / Auto Iris output	8 pin, applicable to HZ-610MDU, HZ-G6350U, T14x 5.5MDU	←
White balance	Full time auto / manual / 2 white memories	←
Iris sensitivity area	Selectable	←
Full ALC (automatic level control)	0 to 18 dB, + EEI	0 - 18 dB, + Auto Irs, + EEI
Scene file	-na	4 memories, 16 parameters
Setup menu	-na	On screen (monitor output) with control on CCU, video level, white balance, Freeze, Process, total settings
Remote control input / RS-232C	Din compatible with RM-LP55U, RS232C with optional cable VC-P893U(PC), VC-P894U(Mac)	RS-232C D-sub 9p
Lens mount	C mount	C mount (FB 17.526 mm)
Power supply requirement	12V DC (10.5V to 15V)	230V AC
Power consumption	7.5 W (camera head only)	22W
Operating tempurature range	-10 to 40 deg C	-10 to 50 deg C
Dimensions	70 x 64 x 120 mm (WxHxD)	Camera head: 45x48x62 mm (WxHxD) CCU: 210x88x221mm
Weight	490 g (without lens)	Camera head: 170g CCU: 2.7 kg
Camera Cable length	Not specified	Up to 25 meters 5 M cable (standard): VC-P805U 10M cable (optional): VC-P810U

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NETWORK COLOUR VIDEO CAMERAS

Ethernet Network Camera System

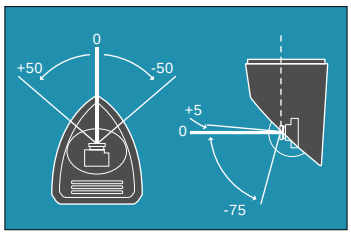
VN-C1U Network Camera

VN-C2U with Integrated Pan/Tilt

- The V.NETWORKS VN-C2 is the world's smallest Ethernet-compliant visual network system with a built-in Pan/Tilt head, allowing discreet placement while retaining mobility and a wide field of view.
- V.Networks cameras can be monitored and controlled remotely and easily from any position on the network, or across the country via telephone line, by any number of operators.

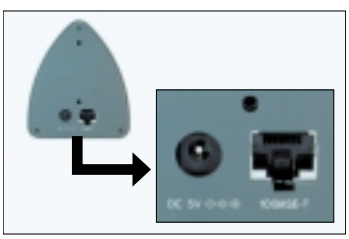
- Direct Network Connectivity
  The 10Base-T network connection of V.NETWORKS provides a quick, easy and cost-effective solution to transmitting images over a LAN.
- Viewer/Controller sofware (included)
  JVC's exclusive viewer/controller software allows remote control of the multi-angle pan and tilt, pre-set positions, and other V.NETWORKS functions as well as monitoring of JPEG images on the PC display.
- Fast Pan/Tilt mechanism useful tool for surveillance
  Small, precise and fast Pan/Tilt action at 160degrees / second.

- Easy Remote Monitoring
  Using phone lines, ISDN or your chosen communictions medium, V.NETWORKS is ideal for remote monitoring and viewing.
- Full Digital Signal Processing
  The latest 330,000 pixel CMOS Image sensor outputs in digital directly to the JPEG hardware compression engine. Images are then translated into network packets (IEEE 802.3). This make it possible to capture, monitor and distribute full digital images over the network. Manipulation and viewing of the standard JPEG format images is easy using commonly available image processing software.



Fast multi-angle Pan/Tilt Built-in

Viewer/Controller Software included



Direct Ethernet Connection

Design and specifications subject to change without notice.

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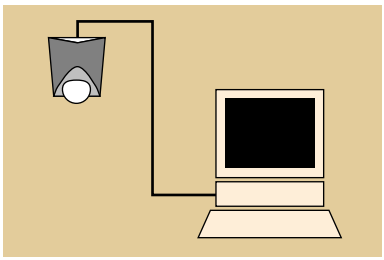
NETWORK COLOUR VIDEO CAMERAS

System and Specifications

V.NETWORKS

At the Door

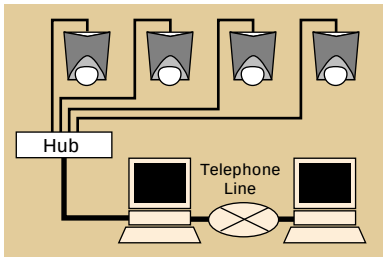
Install a V.NETWORKS system in the reception area and see who's at the door from your personal computer. Connect V.NETWORKS directly to your computer in standalone configuration.



Standalone connection: V.NETWORKS is connected directly to computer.

At the Bank

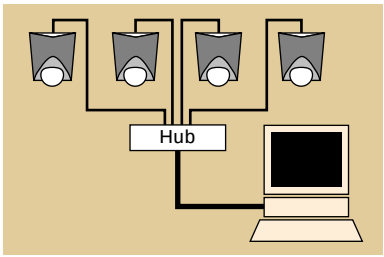
So small it goes virtually unnoticed, V.NETWORKS is ideal for bank security. Monitor all ATM and teller window traffic, and capture a still image of each visitor for inclusion in a database.



LAN connection: multiple V.NETWORKS systems connect to a Ethernet network

At the Factory

Install V.NETWORKS in every manufacturing section and easily keep track of production without leaving your desk. The built-in multi-angle Pan/Tilt allows you to monitor a wide area.



WAN connection: images on network are accessed over telephone line

Model		VN-C1U	VN-C2U
Camera	Image Sensor	1/3" CMOS 300,000 pixels	
Pan/Tilt	Angle	N/A	Pan: +50°~-50° Tilt: +5°~-75°
	Speed	N/A	Pan: 160°/s Tilt: 160°/s
Lens	Focal Length (f)	7mm	
	Aperture Ratio (F)	F2	
	Focus	Manual	
	Min. Object Distance	1.0m (3.3')	
Interface		10Base-T (Ethernet) IEEE802.3	
Protocol		UDP/IP	
Picture	Resolution(Pixels)	160 x 120, 320 x 240, 640 x 480	
	Compression	JPEG	
Frame Rate (fps)*	160x120	9	
	320x240	6	
	640X480	3	
System Requirements	Operating System	Windows 95/98/NT	
	CPU	Pentium 133MHz or higher (200MHz or higher recommended)	
	Memory	32MB RAM or more (64MB or more recommended)	
	Hard Disk Space	20 MB or more	
	Display/Video Card	640x480 or higher; high color (16 bit) (1024x768; true color (24 bit) recommended)	
	Network Communication	Network interface card, 10Base-T cable (IEEE802.3 standard)	
Position Memory		na	6 positions
Power Requirements		DC5V 0.6A	DC5V 1.4A (MAX)
Dimensions (H x W x D)		122 x 82 x 97mm (4-3/4" x 3-1/4" x 3-7/8")	
Weight		230g (8.2 oz.)	260g (9.25 oz.)

*Depends on operational environment. • Dimensions and secifications are subject to change without notice.
• Product names are trademarks of their respective companies

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BLACK AND WHITE VIDEO CAMERAS

1/3" CCD Black and White Video Cameras

TK-S241E 24V AC/12V DC

- The 1/3" CCD image pick-up delivers 380 lines of horizontal resolution, and is supported by built-in contour and AGC circuits for sharp pictures at just 0.095 lux
- High-sensitivity, low after-image and low geometric distortion make the TK-S241E ideal where high quality images are required
- The camera accepts 24 V AC or 12 V DC for easy installation in various systems
- Simply flip a switch to select internal, external, or line lock synchronisation (requires 50 Hz AC power). This makes system integration even easier
- The Automatic Electronic Shutter continuously adjusts the shutter speed to give the correct exposure even when a manual iris or a lens without an iris is used.
- Built-in backlight compensation function improves image quality when shooting backlit subjects.
- Either C-mount or CS-mount lens can be attached to the camera with the lens mount change function.

TK-S340EG 220 ~ 240V AC

- High-quality CCD imaging of high sensitivity: 1/3" CCD image pick-up delivers 380 lines of horizontal resolution, with built-in contour and AGC circuits for sharp, distortion-free pictures under low light conditions – a minimum practical illumination of 0.3 lux
- Accepts 220 ~ 240 V AC
- Easy system integration: simply flip a switch to select internal, external, or line lock synchronisation (requires 50 Hz AC power)
- Automatic Electronic Shutter to give the correct exposure even when a manual iris or a lens without an iris in used
- Built-in back-light compensation function
- C or CS mount changeable

Design and specifications subject to change without notice.

JVC PROFESSIONAL

BLACK AND WHITE VIDEO CAMERAS

1/3" CCD Black and White Video Cameras

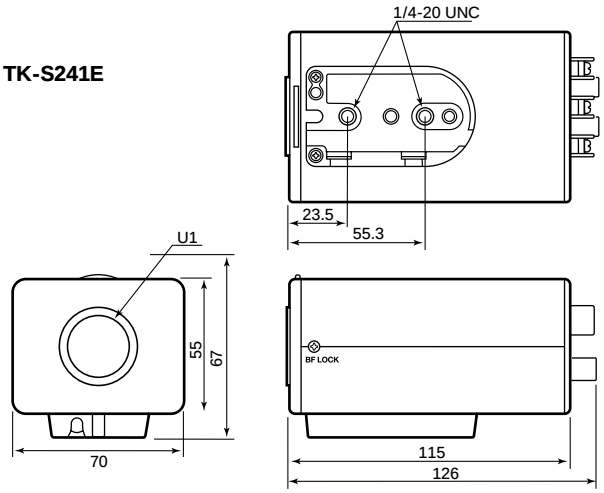
TK-S350EG 220 ~ 240V AC

- The 1/3" CCD image pick-up delivers 560 lines of horizontal resolution, and is supported by built-in contour and AGC circuits for sharp pictures at just 0.3 lux.
- High-sensitivity, low after-image and low geometric distortion make the TK-S350EG ideal where high quality images are required.
- The camera accepts 220 V to 240 V AC power.
- A switch to select internal, external, or line makes system integration even easier.
- The Automatic Electronic Shutter continuously adjusts the shutter speed to give the correct exposure even when a manual iris or a lens without an iris is used.
- Built-in backlight compensaton function improves image quality when shooting backlit subjects.
- Either C-mount or CS-mount lens can be attached to the camera with the lens mount change functon.

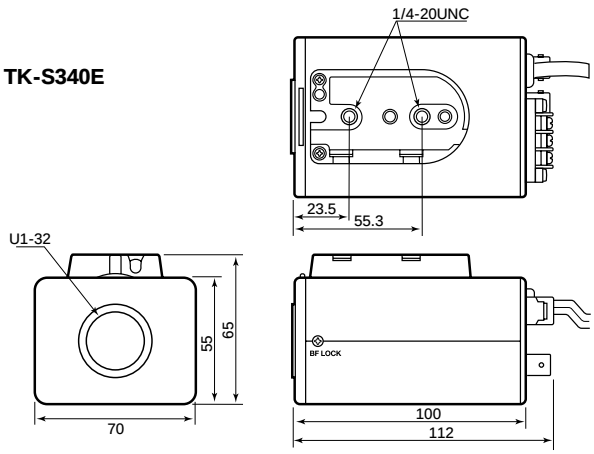
Dimensions

TK-S241E/TK-S340E/TK-S350EG

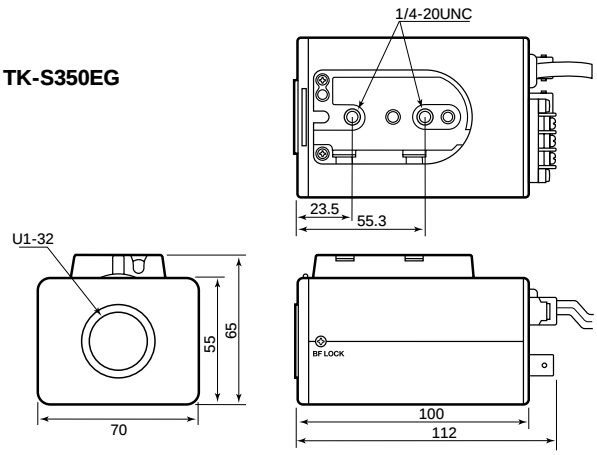
TK-S241E



TK-S340E



TK-S350EG



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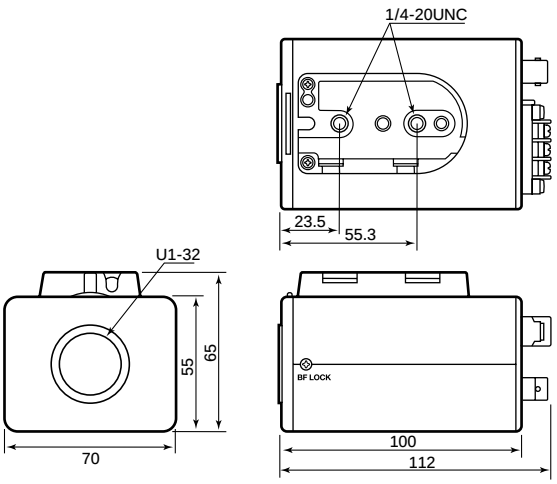
1/3" CCD Single Cable Video/Power Camera

TK-S140E

- **With high-sensitivity, no after-image and no geometrical distortion, the TK-S140E is the perfect choice for a wide range of system applications — connected directly to a monitor or through a camera control unit**
- **An innovative multiplexing system feeds pictures, power, and sync through a single coaxial cable for enhanced operation and easy connection. A cable length selector switch optimises functions for coaxial cable lengths up to 500 m between camera and camera control unit.**
- **The Automatic Electronic Shutter (AES) continuously adjusts speed to ensure correct exposures under all lighting conditions, even when a manual iris lens is used.**
- **The built-in backlight compensation (BLC) function provides added flexibility by ensuring excellent image quality when shooting backlit subjects**
- **Back-focus adjustment function allows easy adjustment and installation**
- **External Sync is switchable between internal/external lock**
- **Either C-mount or CS-mount lens can be attached to the camera by adjusting the back focus**



Design and specifications subject to change without notice.

JVC PROFESSIONAL

BLACK AND WHITE VIDEO CAMERAS

Specifications

	TK-S241E	TK-S340EG	TK-S350EG
Signal System	monochrome	←	←
Image device	1/3 inch interline transfer CCD	←	←
Effective Picture elements	300,000 (512H x 582V)	←	430,000 (753H x 582V)
Video process circuit	Analogue	←	←
Sync system / input	Internal / External/ Line lock (50 Hz AC only)	←	←
Scanning frequency (normal)	H:15.625 kHz, V: 50Hz	←	←
Video output	Composite: VBS 1.0V(p-p), 75 ohms	←	←
Video S/N	50 dB	←	48 dB
Horizontal resolution	380 TV lines (horizontal)	←	560 TV lines (horizontal)
Gain	24 dB	←	←
Minimum required illumination	0.095 lux (F1.2)	0.3 lux (F1.4)	0.3 lux (F1.4)
Electronic Shutter	Normal 1/50, 1/120, 1/250, 1/500, 1/ 1000, 1/2000 sec, (variable)	Auto only	←
AES (Automatic Electronic shutter level control)	yes	←	←
Detail correction	14	←	←
Auto Iris output	Video/DC	←	←
BLC (Back light compensation)	yes	←	←
Lens mount	C / CS mount	←	←
Power supply requirement	24V AC 50/60Hz, 12V DC	220 to 240V AC, 50/60 Hz	←
Power consumption	3 W	3.3W	4 W
Operating temperature range	-10 to 50 degrees C (0 to 40 degrees C recommended)	←	←
Dimensions	70x67x126 (WxHxD)	70x65x112 (WxHxD)	←
Weight	510g (without lens)	800g	800g
Camera Cable length	Not specified	About 2.4 meter	←

JVC PROFESSIONAL

Design and specifications subject to change without notice.

Specifications

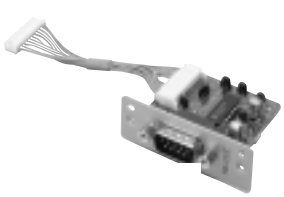
	TK-S140E
Signal System	B/W
Image device	1/3" Interline transfer CCD
Effective Picture elements	300,000 (512 x 582)
Video process circuit	Analogue
Sync system / input	Internal/external Special sync signal from exclusive CCU
Scanning frequency (normal)	H:15.625 kHz, V: 50Hz
Video output	Camera output to CCU: 0.7V(p-p) Monitor output: 1.0V(p-p) high impedance
Video S/N	50 dB
Horizontal resolution	380 TV lines
Minimum required illumination	0.3 lux (F1.4)
Electronic Shutter	Auto only
AES (automatic electronic shutter)	On/off
Slow shutter	-na
Auto Iris output	Video/DC
White balance	-na
BLC (back light compensation)	On/off
AGC (automatic gain control)	24 dB
Camera ID	From CCU
Setup menu	-na
Remote control input	-na
Lens mount	C/CS mount
Power supply requirement	From CCU: 15V to 21V DC, 290 mA
Power consumption	120 mA (22V) to 160 mA (16V)
Operating tempurature range	-10 to 50 deg C
Weight	410 g
Cable length	Long (up to 500 M) or short compensation

24 Hour Video/Audio VHS Recorder

SR-L910E 24 Hours

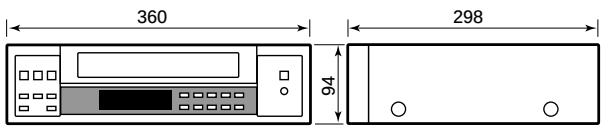
- 3, 12, 24 hours recording and playback modes
- Black and white recording mode
- Optional RS-232C control
- Aluminium diecast mechanism for high reliability
- FDP counter display / hour meter on screen
- Internal timer recording mode
- Automatic recording check
- Sensor recording mode
- Tape end buzzer, output and indication
- Selectable alarm record duration (5, 10, 15, 30, 60, 120, 180, Manual)
- On screen menu setting
- Automatic head cleaner
- Quick-response full-loading mechanism
- Picture control (normal / sharp)
- Summer time adjustment
- Wired remote control (RM-G30U)
- Double push type key lock operation
- Warning display
- Compact size 360 x 94 x 298 mm (14.2" x 3.7" x 11.7") W x H x D

Display indication	Mode	Available recording time (hour)					Recording/ playback interval (sec.)	Audio recording	Tape running
		E-30	E-60	E-90	E-120	E-180			
3H	VHS Standard	0.5	1	1.5	2	3	0.02	Possible	(Continuous) 23.39 mm/sec.
L12H	12-hour Timelapse	2	4	6	8	12	0.1	Possible	(Continuous) 4.68 mm/sec.
L24H	24-hour Timelapse	4	8	12	16	24	0.18	Possible	(Continuous) 2.60 mm/sec.



SA-K97U

RM-G30U



Design and specifications subject to change without notice.

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TIMELAPSE

"Real Time" Video/Audio Timelapse Recorder

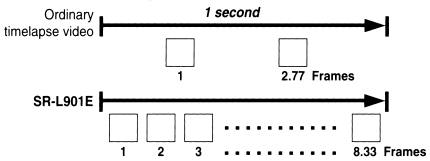
SR-L901E 24 Hours "Real Time"

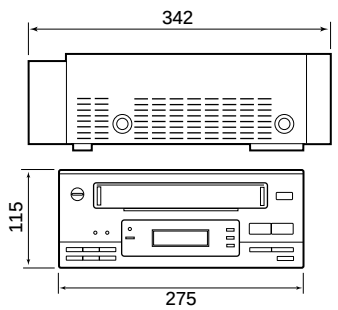
- **Up to 24 Hours of Continuous Video/Audio Recording and Playback**
- **Realtime Timelapse Video/Audio Recording and Playback with E240 cassette**
- **High-Speed Playback Sound Processing Function**
- **Alarm Recording/Sensor Recording/Alarm Search Capability**
- **Time/Date Generator**
- **Automatic Repeat Recording**
- **Signal Monitoring with Power Off**
- **Other features**
  - **Advanced mode lock system**
  - **Summer time adjustment**
  - **Automatic re-start of recording after power failure**
  - **Field recording capability**
  - **1 year time/date backup**
  - **Automatic head cleaner**
  - **Digital tracking (8 hour mode only)**
  - **Quick-response**
  - **External timer recording capability**
  - **Camera swiching signal output**
  - **Noiseless stills**
  - **Shuttle search (x9 normal in both directions)**
  - **Microphone input**
  - **Wired remote control (optional)**
  - **Tape end out**
  - **Large LCD display**
  - **On-Screen Menu Setting**

MODE	Available recording time (hour)						Recording interval (sec)	Audio recording	Tape speed
	E-240	E-180	E-120	E-90	E-60	E-30			
8H	8	6	4	3	2	1	Continuous	Yes	11.7 mm/sec (Continuous)
24H Timelapse	24	18	12	9	6	3	0.06	Yes	3.90 mm/sec (Continuous)

Realtime recording for 24 hours without any missing data

Two recording modes – 8-hour mode and 24-hour (timelapse) mode – are available (using T-160 cassette). In the 24-hour mode, realitime recording at a frame rate of more than 8 frames/second can be achieved, allowing 24-hour continuous recording with density approx. 3 times that of nomal timelapse recording.





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Design and specifications subject to change without notice.

10 Days (240 Hours) Video/Audio VHS Recorder

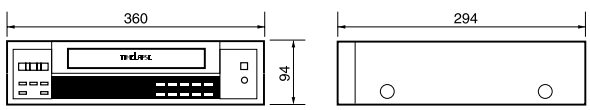
SR-9240E 10 days (240 hours)

- Up to 240 hours of high-density recording — you can choose from 3 hours (SP mode) or 12/24/48/72/96/120/168/240 hours (High-Density mode)
- Real-time audio recording in 3H, L12H and L24H
- Field recording playback
- Time/date generator
- FDP on screen counter display/hour meter
- Two types of time recording are available: date-based daily (up to 8 programmes) or day-of-the-week-based
- Date-based programme cancellation for up to 16 days
- Alarm recording function
- Sensor recording
- Up to 9 alarm inputs or power losses (failures) can be stored in memory
- Still, field advance and reverse playback
- External activation of recording
- Record check function allows you to check the status of the recording in progress
- The built-in head cleaner automatically cleans the heads whenever inferior picture quality is detected during recording check
- Error warnings on the front panel display include problems with cassette loading, cassette unloadring, or the transport system operation mode
- Series recording
- Camera switching function
- Power-off video pass through function
- Aluminium diecast machanism for long lasting reliability
- Easy to maintain solderless drum
- Optional RS-232C interface (SA-K97)

SA-K97U

RM-G30U

Display indication	Mode	Available recording time (hours)					Recording/playback interval (sec.)	Audio recording
		E-30	E-60	E-90	E-120	E-180		
3H	VHS Standard	0.5	1	1.5	2	3	0.02	Possible
L12H	12-hour Timelapse	2	4	6	8	12	0.1	Possible
L24H	24-hour Timelapse	4	8	12	16	24	0.18	Possible
48H	48-hour Timelapse	8	16	24	32	48	0.34	N/A
72H	72-hour Timelapse	12	24	36	48	72	0.5	N/A
96H	96-hour Timelapse	16	32	48	64	96	0.66	N/A
120H	120-hour Timelapse	20	40	60	80	120	0.82	N/A
168H	168-hour Timelapse	28	56	84	112	168	1.14	N/A
240H	240-hour Timelapse	40	80	120	160	240	1.6	N/A



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JVC PROFESSIONAL

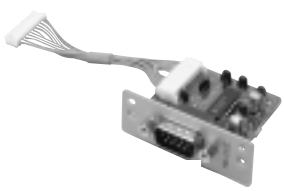
TIMELAPSE

40 Days (960 Hours) Video/Audio Recorder

SR-9080E 40 days (960 hours)

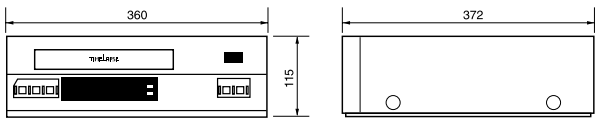
- Up to 960 hours recording — you can choose from 3 hours (SP) and 12/24/48/72/120/168/240/480/960 hours in a standard T-180 tape
- High-resolution recording system provides more than 300 lines even in the colour mode
- Audio recording in 3H, L12H and L24H
- Up to 8 programmes can be set for daily, weekly, or weekday time timer-recording and on up to 16 specific days throughout the year such as holidays
- Time/date generator with memory backup
- Alarm recording function automatically engages 3 hours mode
- Sensor recording engages record on alarm, even in stop mode
- Dates and times of up to 8 alarm inputs or 4 power losses (failures) can be displayed on-screen
- Tape position search functions automatically search the start of an alarm recording or search for a recording made at a specified date and time
- Recording with external activation signal
- Series recording
- Noiseless still, field advance and reverse playback
- Camera switching function
- Optional RS-232C interface (SA-K97)

Time mode	Available recording time (hours) (E-180)	Recording/ playback interval (sec.)	Audio recording	Continuous tape running speed (mm/sec.)
3H	3	0.02	Possible	23.39
L12	15	0.1	Possible	4.68
L24	27	0.18	Possible	2.60
48H	51	0.34	-	-
72H	75	0.50	-	-
120H	123	0.82	-	-
168H	171	1.14	-	-
240H	243	1.62	-	-
480H	483	3.22	-	-
960H	963	6.42	-	-



SA-K97U

RM-G30U



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S-VHS 960 Hour Timelapse Video Recorder

SR-S970E 40 Days

S-VHS 625

Recording flexibility
- High picture quality S-VHS recording
- Up to 960 hours Timelapse recording
- Field recording/playback capability
- Time/date generator with memory backup
- Audio recording in continuous 3 hour, L12 hour, and L24 hour Timelapse recording modes
- Internal/ external timer recording
- Variable alarm/sensor recording and alarm memory
- Alarm search
- Alarm/power loss memory

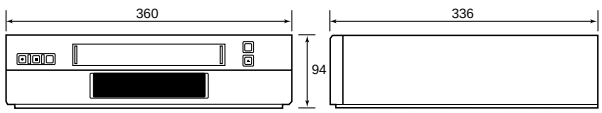
System flexibility
- Series recording and external record control
- Noiseless still, field advance, and reverse playback
- Camera switching function
- Optional RS-232 interface (SA-K97U) for control and data output for VTR condition printing

Other features
- On-screen setup menu, recording time and mode display
- "Record check" for instant playback quality check during recording
- Automatic head cleaning mechanism
- Auto repeat recording
- Shuttle search
- Digital hour meter
- Clock calibration
- Daylight savings time setting
- Wired remote control with optional remote control unit RM-G30
- Tape "near end" output with buzzer
- Warning indicator
- Total recording time indication

* Employs chroma-enhancing technology co-developed by JVC and FARODJA Laboratories and modified for S-VHS applications.

Recording/ Playback Time	REC/PLAY Mode Indicator	Interval (sec.) Recording/Playback	Audio Recording/Playback
960 hours (40 days)	960H	6.4	No
480 hours (20 days)	480H	3.2	No
240 hours (10 days)	240H	1.8	No
168 hours (7 days)	168H	1.14	No
120 hours (5 days)	120H	0.82	No
72 hours (3 days)	072H	0.5	No
48 hours (2 days)	048H	0.34	No
24 hours (1 day)*	024H	0.18	No
24 hours	L24H	0.18	Yes
12 hours	L12H	0.1	Yes
3 hours	003H	—	Yes

*(in the Play mode only)



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JVC PROFESSIONAL

TIMELAPSE

Video Recorder Specifications

General	SR-L910E	SR-L901E
Power supply requirement	220 to 240V AC, 50/60 Hz	←
Power consumption	19W	18W
Operating temperature range	5 to 40 degrees C (-20 to 60 degrees C storage)	←
Dimensions	360x94x298 (WxHxD)	275x115x342 (WxHxD)
Weight	Approx. 5.0 kg	5.0 kg
Tape used	VHS / PAL	←
Tape width	12.65 mm	←
Tape speed (normal video)	SP mode(3H) 33.35 mm/sec	-na
	LP mode(8H) 11.12 mm/sec	
Recording and playback time	3H	-na
Timelapse recording	12 hours, 0.12 sec interval (E-180 tape)	"Real time" 24 hours, 0.18 sec interval (E-180 tape) 24 hours, 0.048 sec interval (E-240 tape)

VIDEO		
Signal system	PAL type colour signal and CCIR monochrome signal, 625 lines / 50 fields	
Recording system	Luminance: FM recording, Chroma: Down converted direct recording	
Input	0.5 to 2.0 V(p-p), 75 ohms unbalanced (BNC)	←
Output	1.0 V(p-p), 75 ohms unbalanced (BNC)	←
Signal to noise ratio	43 dB (3 hour mode)	43 dB (8 hour mode)
Horizontal resolution	240 TV lines (3 hour mode colour) 280 TV lines (3 hour mode B/W)	230 TV lines (8 hour mode colour) 280 TV lines (8 hour mode B/W)

AUDIO		
Number of tracks	1 (normal)	←
Input	Line: -8 dBs, 50 K-ohms unbalanced (RCA) Mic: -67 dBs, 600 ohms unbalanced (RCA)	←
Output	Line: -8 dBs, 1 K-ohms unbalanced (RCA)	←
Frequency response	100 Hz to 10 kHz (3 hour mode)	100 Hz to 5,000 Hz (8 hour mode)
Signal to noise ratio	40 dB or more (3 hour mode)	←

OTHER		
Time date generator	Display: Day, month, year, hours, minutes, seconds, recording mode Positions: 4 Character size: 16 H	
Memory backup	Approx. 5 years	Approx. 1 year
Alarm input	Grounding type contact	←
Camera Switching	Negative pulse output (approx. 5 milliseconds)	←
Accessories provided	Backup 15A/AA battery x 1 Power cable	Backup LR6/15A/L40 battery x 4 Power cable
Accessory options	RM-G30U remote control unit	←
	SA-K97U RS-232C interface kit	-na

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Video Recorder Specifications

General	SR-9240E	SR-9080E	SR-S970E
Power supply requirement	220 to 240V AC, 50/60 Hz	←	←
Power consumption	Approx. 19W 5W in standby mode	Approx. 19W 6W in standby mode	19W
Operating temperature range	5 to 40 degrees C (-20 to 60 degrees C storage)		
Dimensions	360x94x294 (WxHxD)	360X115X372 (WxHxD)	360x94x336mm (WxHxD)
Weight	4.5 kg	5.5 kg	5.1 kg
Tape used	VHS / PAL	←	S-VHS / VHS PAL
Tape width	12.65 mm	←	←
Tape speed (normal video)	SP mode(3H) 23.39 mm/sec	←	←
Recording and playback time	3 hours (SP mode)	←	←
Timelapse recording	12, 24, 48, 72, 96, 120, 168, 240 hours (E-180 tape)	12, 24, 48, 72, 120, 168, 240, 480, 960 hours (E-180 tape)	

VIDEO			
Signal system	PAL type colour signal and CCIR monochrome signal, 625 lines / 50 fields		
Recording system	Luminance: FM recording, Chroma: Down converted direct recording		
Input (Composite)	Composite: 0.5 to 2.0 V(p-p), 75 ohms unbalanced (BNC)		←
Input (Y/C)	na	-na	Y: 1.0 V(p-p), 75 ohms unbalanced C: 0.3 V(p-p), 75 ohms unbalanced (burst)
Output (Composite)	1.0 V(p-p), 75 ohms unbalanced (BNC)		←
Output (Y/C)	na	-na	Y: 1.0 V(p-p), 75 ohms unbalanced C: 0.3 V(p-p), 75 ohms unbalanced (burst)
Signal to noise ratio	43 dB (3 hour SP mode)	40 dB (3 hour SP mode)	45 dB (S-VHS 3 hour mode)
Horizontal resolution	240 TV lines (3 hour SP mode colour) 280 TV lines (3 hour SP mode B/W)	300 TV lines (3 hour mode colour)	VHS: 240 TV lines S-VHS: 400 TV lines

AUDIO			
Number of tracks	1 (normal)	←	←
Input	Line: -8 dBs, 50 K-ohms unbalanced (RCA) Mic: -67 dBs, 600 ohms unbalanced (RCA)		←
Output	Line: -8 dBs, 1 K-ohms unbalanced (RCA)		←
Frequency response	100 Hz to 10 kHz (3 hour mode)		←
Signal to noise ratio	40 dB or more (3 hour mode at 4% distortion level)		←

OTHER			
Time date generator	Display: Day, month, year, hours, minutes, seconds, recording mode Positions: 4 Character size: 16 H	Display: Day, month, year, hours, minutes, seconds, recording mode, alarm input data, power loss time Positions: 1 Character size: 16 H	
Memory backup	Approx. 5 years	Approx. 2 years	Approx. 1 year
Alarm input	Grounding type contact	←	←
Camera Switching	Negative pulse output (approx. 5 milliseconds)		<
Accessories provided	Backup battery Power cable	←	←
Accessory options	RM-G30U remote control unit SA-K97U RS-232C interface kit	←	←

Design and specifications subject to change without notice.

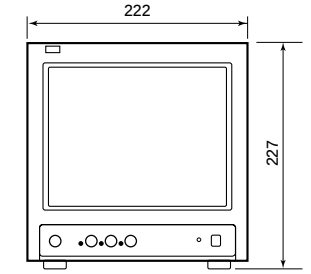
JVC PROFESSIONAL

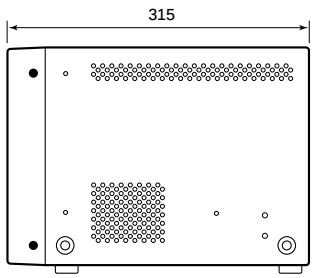
Colour Monitor

TM-A10E 10"

PAL

- **25 cm (10") Full-Square CRT with 90° deflection, in-line guns and vertical stripe pitch of 0.50 mm**
- **Two units can be mounted side-by-side in a standard EIA (optional accessory: RK-A10E) and DIN rack**
- **Durable, space-saving metal cabinet**
- **Horizontal resolution of more than 300 lines**
- **Composite video input terminal (BNC). Bridged output provided**
- **Built-in 8 cm round speaker with 1 W audio output**





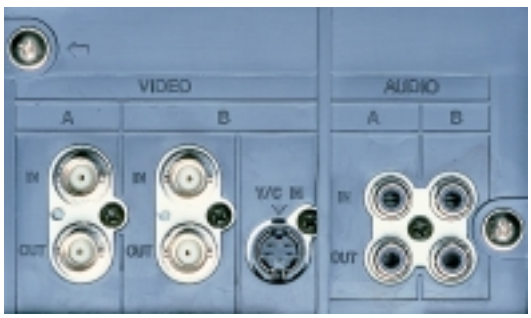
COLOUR MONITORS

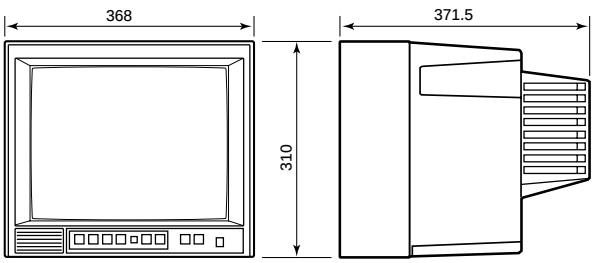
Colour Monitor

TM-A14PN 14"

PAL/NTSC

- 320 Horizontal TV lines picture from 14 inch CRT
- Vertical Stripe phosphors
- PAL/NTSC auto selection
- Built-in speaker
- User-friendly on-screen display menu
- Control lock
- Optional RK-A14E rack mount





JVC PROFESSIONAL

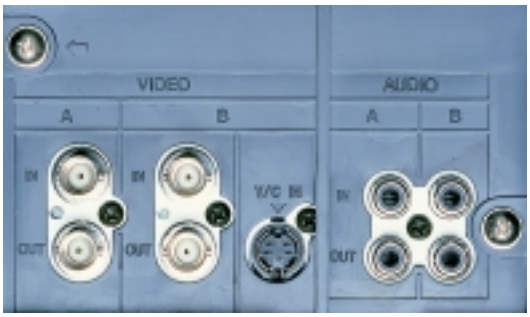
Design and specifications subject to change without notice.

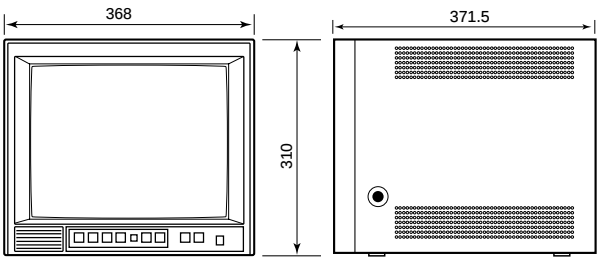
Colour Monitor

TM-A140PN 14"

PAL/NTSC

- **320 Horizontal TV lines picture from 14 inch CRT**
- **Vertical Stripe phosphors**
- **PAL/NTSC auto selection**
- **Built-in speaker**
- **User-friendly on-screen display menu**
- **Control lock**
- **Optional RK-A14E rack mount**
- **Rugged metal case**





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JVC PROFESSIONAL

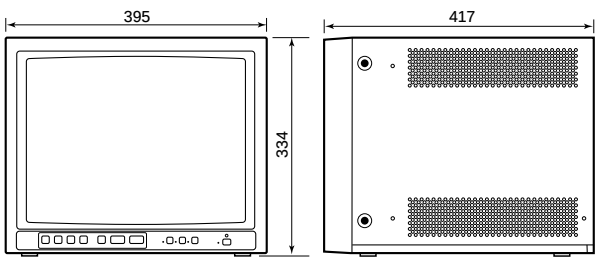
COLOUR MONITORS

Colour Monitor

TM-1700PN 17"

PAL/NTSC

- **High 550 Horizontal TV lines resolution picture from unique 17 inch CRT**
- **Vertical Stripe phosphors**
- **16:9 or 4:3 selectable aspect ratio**
- **Brightness peak suppression system reduces tube wear**
- **PAL/NTSC auto selection**
- **Built-in speaker**
- **User-friendly on-screen display menu**
- **Memory function**
- **Control lock**
- **Wired remote control**
- **Rugged metal cabinet**
- **Optional RK-1700E rack mount**



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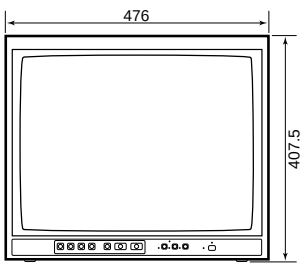
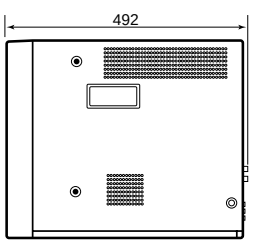
Colour Monitor

TM-2100PN 21"

PAL/NTSC

- **450 Horizontal TV lines resolution picture from 21 inch CRT**
- **Vertical stripe phosphors**
- **16:9 or 4:3 selectable aspect ratio**
- **Brightness peak suppression system extends tube life**
- **PAL/NTSC auto selection**
- **Built-in speaker**
- **User-friendly on-screen graphical menu**
- **Memory function**
- **Control lock**
- **Wired remote control**
- **Rugged metal cabinet**





Design and specifications subject to change without notice.

JVC PROFESSIONAL

COLOUR MONITORS

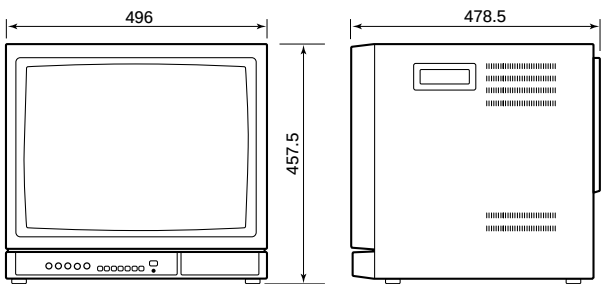
Colour Monitor

TM-2100E 21"

PAL

(please check for world-wide availability)

- Horizontal resolution of more than 550 TV lines
- 55 cm (21-inch) (diagonally-measured) FS (Full-Square) data-grade CRT
- Multiple professional functions useful for video editing Under Scan function, Pulse Cross circuit, Blue Check function, Colour Off function, Horizontal AFC Select switch
- Full range of terminals required by professionals: (bridged output possible)
  1) RGB analogue input terminals for wider applications including medical and industrial.
  2) 7-pin separated Y/C terminals for S-VIDEO
  3) BNC terminals for composite video signal
  4) RCA terminals for external audio signal (mono)
- Heavy duty metal cabinet
- Built-in front speaker



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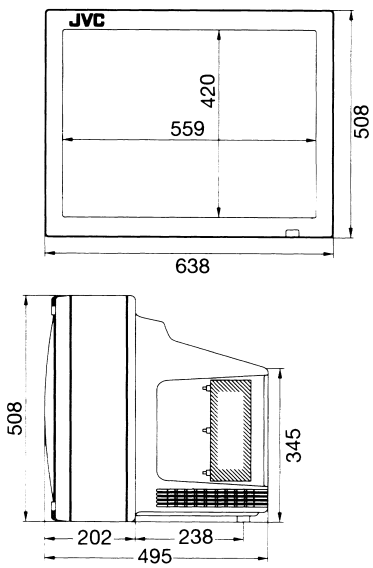
Colour Monitor

TM-290ZE 29"

PAL/SECAM/NTSC

- **High resolution; 700 horizontal TV lines**
- **Digital comb filter for enhanced picture quality**
- **Multi-format video input:**
  — PAL/SECAM/NTSC/NTSC 4.43
  —Composite video, Y/C, Component, RGB analogue
- **Provided Wireless Remote Control unit (picture adjustment, white balance adjustment, ID system operation, etc.)**
- **RGB Ys terminal for superimposing an analogue RGB signal on a video signal**
- **"Screen Saver" function to prevent the CRT from burnout caused by the lengthy display of a still picture**
- **Built-in 10W + 10W amplifier for use with an external speaker**
- **Tough construction for multiple applications either stacked or suspended from a ceiling**



COLOUR MONITORS

Specifications

General	TM-A10E	TM-A14PN	TM-A140PN
CRT	10" (25cm) measured diagonally 90 degrees deflection In-line guns 0.50mm vertical stripe pitch	14" measured diagonally Inline guns 0.65mm vertical stripe pitch	←
Scanning frequency	H:15.625 kHz, V:50 Hz	H:15.625 kHz,V:50 Hz PAL H:15.75 kHz,V:60 Hz NTSC	←
Power requirement	230V AC, 50 Hz	230V AC, 50/60 Hz	←
Power consumption	0.33A (max)	0.5A (max)	0.55A (max)
Audio outputs	1W	←	←
Speaker	yes	←	←
Horizontal resolution	More than 300 TV lines	320 TV lines	←
Colour temperature	6,500 degrees K	←	←
Composite video input	BNC x2 (for bridged output) 1.0V (p-p) 75 ohms, negative sync, termination switch provided	A/B each: BNCx2 (for bridged output) 1.0V (p-p) 75 ohms, negative sync, auto termination	←
Y/C video input	-na	Din 4-Pin Y: 1.0 V(p-p), 75 ohms, negative sync C: 0.3 V(p-p) 75 ohms (PAL) C: 0.286 V(p-p), 75 ohms (NTSC) Auto termination	←
Audio input / output	RCA x2 (for bridged output)	A/B each: RCA x2 (for bridged output)	←
Wired Remote Terminal	-na	RCA x2 (for bridged output)	←
Power cord	(TM-A10E)Continental type (TM-A10EK)UK mains lead type	(TM-A14PN)Continental type (TM-A14PN-K)UK mains lead type	(TM-A140PN)Continental type (TM-A140PN-K)UK mains lead type
Weight	6.9 kg	9.5 kg	12.2 kg
Dimensions	222x227x315mm (WxHxD)	368x310x371.5mm (WxHxD)	346x310x368.5mm (WxHxD)

Design and specifications subject to change without notice.

Specifications

General	TM-1700PN	TM-2100PN	TM-2100E
CRT	17" (25cm) measured diagonally In-line guns 0.42mm vertical stripe pitch	21" measured diagonally Inline guns 0.70 mm vertical stripe pitch	21" measured diagonally FS data grade tube Inline guns 0.57 mm vertical stripe pitch
Scanning frequency	PAL H:15.625 kHz,V:50 Hz NTSC H:15.75 kHz,V:60 Hz	←	PAL H:15.625 kHz,V:50 Hz
Power requirement	230V AC, 50/60 Hz	←	←
Power consumption	0.6A (max)	0.72A (max)	0.72A (max)
Audio outputs	1W	←	1.5W
Speaker	yes	←	←
Horizontal resolution	550 TV lines	450 TV lines	550 TV lines
Colour temperature	6,500 / 9,500 degrees K selectable	←	6,500 degrees K
Composite video input	A/B each: BNCx2 (for bridged output) 1.0V (p-p) 75 ohms, negative sync, auto termination	←	A/B each: BNCx2 (for bridged output) 1.0V (p-p) 75 ohms, negative sync, termination switch provided
Y/C video input	(B input auto select) Din 4-Pin x2 for bridged output Y: 1.0 V(p-p), 75 ohms, negative sync C: 0.3 V(p-p) 75 ohms (PAL) C: 0.286 V(p-p), 75 ohms (NTSC) Auto termination		7-Pin x2 for bridged output Y: 1.0 V(p-p), 75 ohms, negative sync C: 0.3 V(p-p) 75 ohms termination switch provided
RGB input	-na	-na	R,G,B, each: BNCx2 (for bridged output) 0.7 V(p-p) 75 ohms termination switch provided Sync: BNCx2 (for bridged output) 1-4 V(p-p) 75 ohms, negative sync termination switch provided
Audio input / output	A/B each: Mono RCA x2 (for bridged output)	←	A / B / YC / RGB each: Mono RCA x2 (for bridged output)
Wired Remote Terminal	RCA x2 (for bridged output)	←	-na
Power cord	(TM-1700PN)Continental type (TM-1700PN-K)UK mains lead type	(TM-2100PN)Continental type (TM-2100PN-K)UK mains lead type	Included
Weight	17.2 kg	28.5 kg	34.6 kg
Dimensions	395x334x420.5mm (WxHxD)	476x407.5x492mm (WxHxD)	496x457.5x478.5 (WxHxD)

COLOUR MONITORS

Specifications

General	TM-290ZE
CRT	29” measured diagonally Flat Square tube 110 degrees deflection 0.57 mm vertical stripe pitch
Colour system	PAL / SECAM / NTSC / NTSC 4.43
Power requirement	230V AC, 50/60 Hz
Power consumption	130w
Audio outputs	10W + 10W, 8 ohms for external speakers
Speaker	-na
Horizontal resolution	700 TV lines
Colour temperature	6,500 / 9,500 degrees K selectable
Composite video input	Input A BNCx2 (for bridged output): 1.0V (p-p) 75 ohms Input B BNCx1: 1.0V (p-p) 75 ohms
Y/C video input	Input B auto select Din 4-Pin x1: Y: 1.0 V(p-p), 75 ohms C: 0.3 V(p-p) 75 ohms (PAL) C: 0.286 V(p-p), 75 ohms (NTSC)
RGB / Component input	R,G,B or Component(R-Y,B-Y,Y) each BNCx1: 0.7 V(p-p) 75 ohms Sync BNCx1: 1-4 V(p-p) 75 ohms
Ys input	RCAx1: L: Video 0 -0.4 V(p-p) 75 ohms H: RGB 1.0 - 4.0 V(p-p) 75 ohms
Audio input / output	A / B / (RGB or Component) each: RCA x2 (stereo or mono) 500mV rms, high impedance
Wired Remote Terminal	Power: Minijack x1 Input select: Minijack x1
Power cord	Included
Weight	42.3 kg
Dimensions	638x508x495mm (WxHxD)

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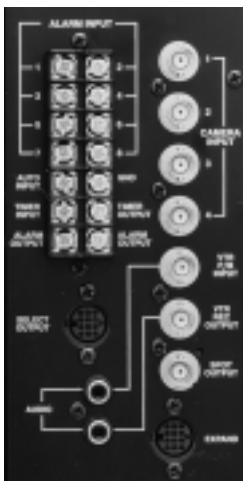
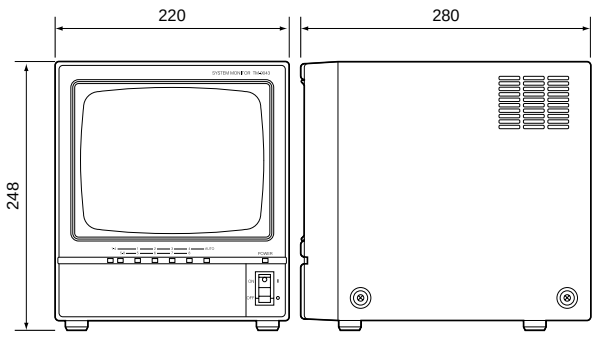
Design and specifications subject to change without notice.

TM-9043EG 9" with Camera Power

- **High Resolution**
  The TM-9043EG has a super high resolution of 700 horizontal lines for exceptional picture quality.
- **Multi-Camera Connection**
  A built-in 4-input camera control unit connects the TM-9043EG with up to four cameras via coaxial cable for multiplex operation.
  The TK-S140E video camera is powered by the TM-9043EG monitor, which simplifies the system's structure.
- **Automatic Switching Function**
  The TM-9043EG has an integrated sequential operating function that automatically switches over between images captured by up to four cameras after a set time.
- **Alarm Function**
  With external sensors connected, the TM-9043EG can be activated as part of an alarm system.





Design and specifications subject to change without notice.

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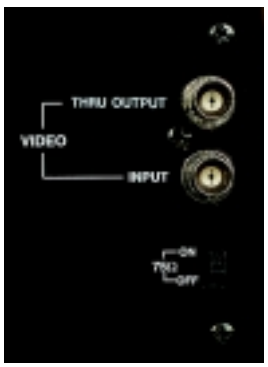
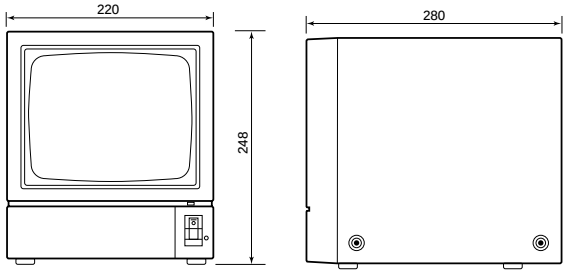
BLACK AND WHITE MONITORS

B/W Video Monitor and Specifications

TM-923E 9"

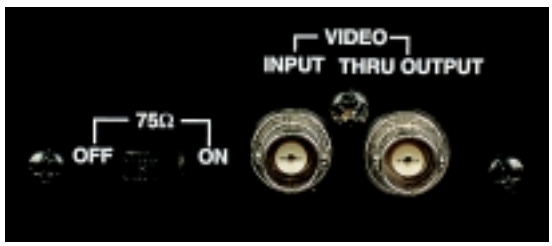
- **High Resolution Pictures**
  With 700 lines of horizontal resolution, the monitor provides sharp reproduction of every detail.
- **Looped-through Output with convenient looped-through connection available.**
- **Flexible Mounting**
  Two TM-924Es can be mounted together in a standard EIA 19" rack using the optional UC-P1016U Rack Mount Adapter.

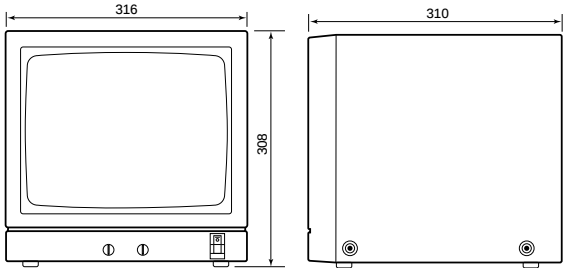




TM-123E 14"

- **High Resolution Pictures**
  With 700 lines of horizontal resolution, the monitor provides sharp reproduction of every detail.
- **Looped-through Output with convenient looped-through connection available.**
- **Flexible Mounting**
  Can be mounted in a standard EIA 19" rack using the optional UC-P1027U Rack Mount Adapter.





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Design and specifications subject to change without notice.

B/W Video Monitors

General	TM-9043EG	TM-923BEG	TM-123EG
CRT	9" measured diagonally 90 degrees deflection	9" measured diagonally 90 degrees deflection	14" measured diagonally 90 degrees deflection
Scanning frequency	H:15.625 kHz, V:50 Hz	←	←
Power requirement	230-240V AC, 50/60 Hz	220V - 240V AC, 50/60 Hz	←
Power consumption	Approx. 65W	25W (max)	27W (max)
Horizontal resolution	More than 700 TV lines	←	←
Video input	Camera input x4 (power for TK-140E only) VTR playback: VS 1.0V (p-p) 75 ohms	BNCx1 1.0 V(p-p) 75 ohms	←
Video output	BNCx2 VTR: VS 1.0V (p-p) 75 ohms SPOT: VS 1.0V (p-p) 75 ohms	BNCx1 (loop through) 1.0 V(p-p) 75 ohms termination switch provided	
Sequential Switching	Duration for all 4 cameras: Internal 0.3 to 30 sec, External from 0.3 sec	na	-na
S/N ratio	More than 55 dB	←	←
Video frequency response	15 kHz to 9 MHz	←	←
Sweep linearity	-	Less than 7%	←
Power cord	Supplied	←	←
Ambient temperature range	-10 degrees C to 50 degrees C	←	←
Weight	Approx. 7 kg	Approx. 6.2 kg	Approx. 10.5 kg
Dimensions	220x248x280mm (WxHxD)	220x248x280mm (WxHxD)	316x308x310mm (WxHxD)

Compact Progressive Digital Still Camera, DV camcorder

GR-DLS1E

Mini DV PAL

(please check for world-wide availability)

- Progressive scan still picture and progressive scan video; 500 TV lines horizontal, 560 TV lines vertical resolution. In progressive scan 450K pixel 1/3" IT CCD provides quality equivalent to 900K pixel CCD
- Progressive CCD filter based on complementary colours (W/G/Ye/Cy) allows full vertical luminance signal is produced from each row of pixels
- High bandwidth processing retains full 500 TV line horizontal resolution (Normal processing must cut high resolution to avoid colour interference)
- Bright images, thanks to F1.2 10x zoom lens (5-50 mm) and high and high sensitivity progressive filter system
- 5 lux sensitivity, 2.5 lux in progressive scan (1/25 shutter) mode
- 40x digital zoom and 100x super digital zoom with spline interpolation for smooth digital images
- 2-channel 16-bit 48 kHz audio or 4-channel 12-bit 32 kHz audio
- Up to 600 image progressive scan digital still capacity on one DV tape in snapshot mode, 100,000 per tape in progressive video mode
- No docking station or capture board required when using JLIP terminal to transmit serial data Digital Still Images to standard PC serial port
- 10x positionable zoom on previously recorded images
- Random assemble edit (RAE) mode
- Wide range of in-camera digital effects
- RS-232 control by PC
- Software provided: Editing — JLIP Video Producer
  Capture — JLIP Video capture 2.0
  Paint — Photosuite SE
- DV standard IEEE 1394 terminal for lossless digital video output to other DV standard devices
- 4" LCD colour video monitor, and also colour Viewfinder
- Audio speaker
- High capacity 1.4 Ah lithium ion battery; with viewfinder use and external battery case 3 hours, with viewfinder use and optional high capacity battery case 6 hours
- Auto lens cover and power on / off
- Remote control provided
- Compact size, 780 grams with battery and tape

Provided accessories

- AC power adapter & battery charger
- Standard battery pack (BN-V814) x 2
- Long-life battery pack (BN-V856)
- Battery case
- Lens hood
- Shoulder strap
- Software (CD-ROM) -- JLIP Video Capture Ver. 2.0, JLIP video Producer, MGI PhotoSuite SE
- PC cable
- S-video cable
- AV cable
- Edit cable
- DC power cable
- MiniDV cassette
- Wireless remote control
- Battery for remote control
- SCART/RCA adapter

Design and specifications subject to change without notice.

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Specifications

GR-DLS1E Camcorder

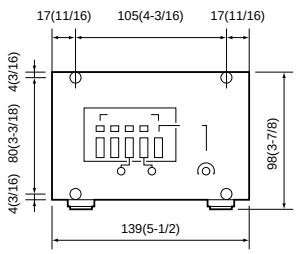
Format	Mini DV digital component recording
Audio recording format	PCM digital stereo
Image sensor	1/3" Progressive Scan CCD, 450,000 pixels
Lens	F1.2 (f = 5.0 - 50 mm)
Monitor	4" colour LCD monitor
Viewfinder	0.55 inch colour
Continuous recording time	80 min. (LCD monitor ON), 100 min.(viewfinder ON), 9 hours (using the optional battery case and belt-holder type battery)
Terminals	DV (IEEE 1394 compliant), S,AV,Edit JLIP (also used for RS-232C digital still data transfer)
Dimensions (W x H xD)	86 x 86 x 145 mm (excluding lens hocd)
Weight	Approx. 780 g with battery and type
Power supply	DC 6.3 V (AC adapter), DC 7.2 V (batteries)
Power consumption	8.2 W (LCD monitor ON), 6.3 W (viewfinder on)

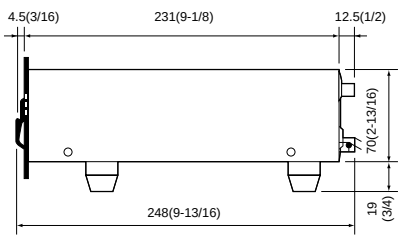
Design and specifications subject to change without notice.

Effector (2-channel Video Split Image)

TK-C50E

- **View two sources on one monitor**
- **Video splitter adopting a full genlock system**
- **Two image signals are sent out separately (top/bottom, left/right, each corner)**
- **Sequential switching capability**





Signal system:	Based on PAL standard
Video input 1:	Composite video signal 1.0 Vp-p, 75 ohms (BNC)
	Bridged output terminal (BNC), with termination switch
Video input 2:	Composite video signal 1.0 Vp-p, 75 ohms (BNC)
	*Input signals should be gen-locked to those at the video input 1.
Selection function	Mode selection switches "1 /2 / ■ / ▬ /SEQUENCE"
Adjustment function:	
	1) Switching time adjustment volume "SEQUENCE-TIME ADJ" Adjustment range: approx. 1 sec. (MIN) to approx. 40 sec. (MAX)
	2) Horizontal screen ratio adjustment volume "■ -ADJUST" Adjustment range: Eraseable for entire screen of left screen and right screen
	3) Vertical screen ratio adjustment volume "▬ ADJUST" Adjustment range: Eraseable for entire upper screen and lower screen
	4) Brightness balance adjustment range: ±10% (black level)
	*Adjustment only for input ■ screen
Power requirement:	5 V DC (± 5%) or 12 V DC (± 10%)
Power consumption:	0.26 VA (5 V DC)/0.64 VA (12 V DC)
Weight:	1.25 kg
Accessories:	5V DC power cable (DIN 5-pin – DIN 5-pin, cable length: Approx. 2 m)

Design and specifications subject to change without notice.

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VIDEO SYSTEM COMPONENTS AND ACCESSORIES

Single Cable Video/Power Camera Control Units

TK-U1003EG
TK-U1004EG with Camera ID

TK-U1402EG up to 11 Cameras

TK-U1003EG , TK-U1004EG and TK-U1402EG

- Coaxial multiplex systems that transmit images, power, and synchronising current through one coaxial cable; excellent for installation and system formation.
- Cable compensation circuits display clear images even when longer cables are used.
- Loop through input for external sync signal aids in systemisation.

TK-U1004EG

- The camera number is superimposed for ease of identification.

TK-U1402EG

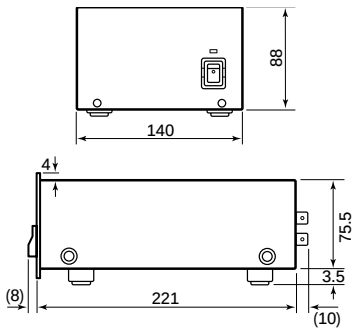
- Simultaneously drives up to four coaxial multiplexed video cameras.


TK-U1003EG

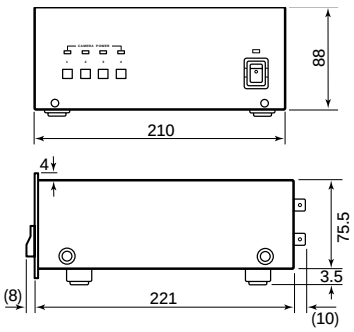

TK-U1004EG


TK-U1402EG

- **TM-9043EG**
  9 inch B/W Monitor with integrated power for 4 cameras and auto switching



TK-U1003EG/TK-U1004EG



TK-U1402EG

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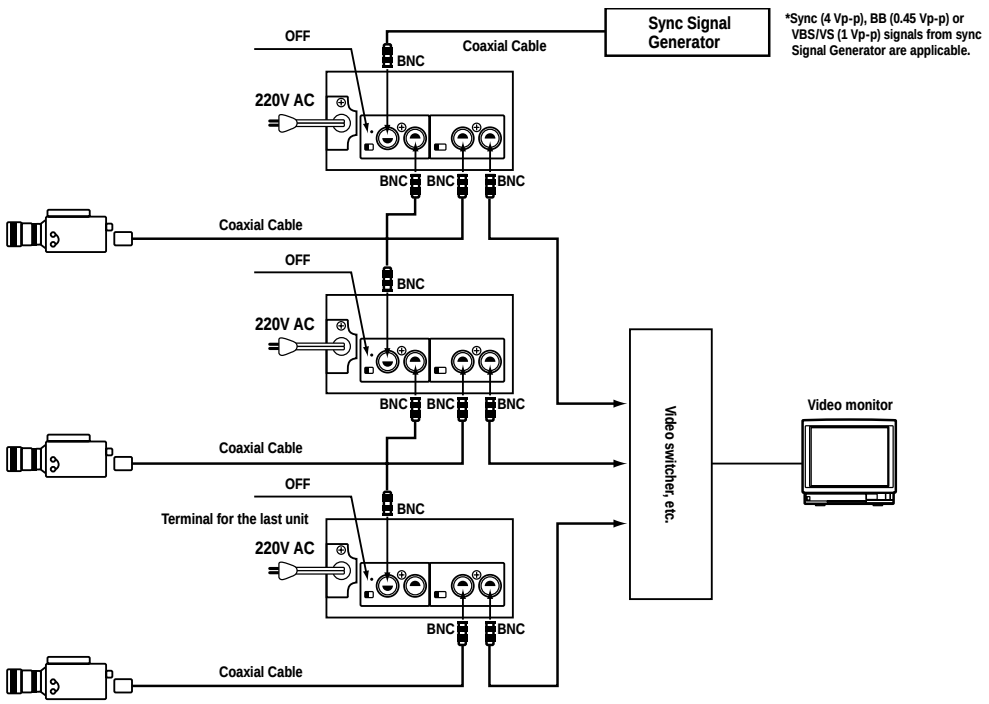
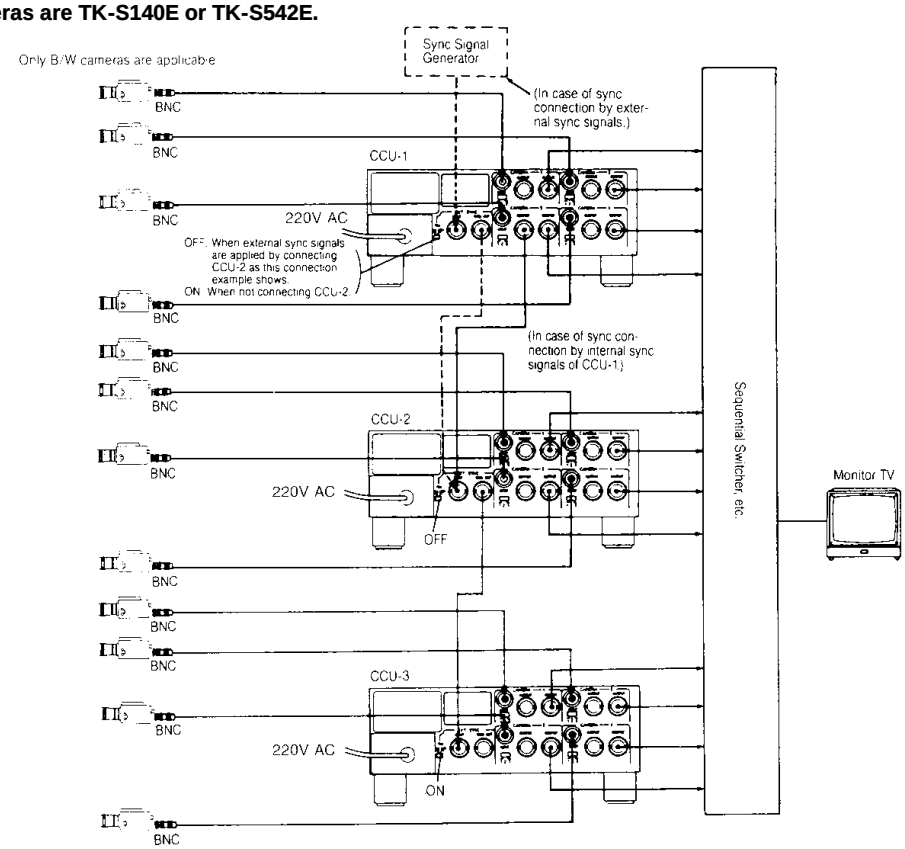
Design and specifications subject to change without notice.

System Configuration

TK-U1003EG System Configuration
Applicable cameras are TK-S140E or TK-S542E.



TK-U1004EG System Configuration
Applicable cameras are TK-S140E or TK-S542E.



Specifications

	TK-U1003EG	TK-1004EG	TK-1402EG
Applicable cameras	TK-S542E and TK-S140E	←	←
Camera Input	1 input, 0.7 Vp-p (V), 75 ohms, BNC	←	4 inputs, 0.7 Vp-p (V), 75 ohms, BNC
Camera Output	1 output: 1.0V(p-p) (V), 75 ohms, BNC	2 outputs: 1.0V(p-p) (V), 75 ohms, BNC	2 outputs for each input: 1.0V(p-p) (V), 1.0V(p-p) (V), 75 ohms, BNC
Sync system/input	External /internal (auto switching	←	←
Sync frequency (normal)	H:15.625 kHz V: 50Hz	←	←
External sync signal input	Sync: 4.0 Vp-p, or VS: 1.0 Vp-p (through output, with 75 ohm termination switch)	←	← ←
Frequency response	To 8 MHz		
DG/DP	Less than 3 degrees, less than 3% (APL to 90%)	←	←
Cable compensation	0 -150 m, 150-300 m, 300-500 m	←	←
Max extension distance	500 m (5C-2V), 200 m (2C-2V eq. RG-59/U)		
Camera superimpose function	-na	Maximum characters: 4 Character variety: 13	-na
Power output to camera	21V DC, 300 mA (max)	←	←
Power requirement	220V AC /50/60 Hz	←	←
Power consumption	17 W	19 W	50 W
Operating temperature range	-10 to 50 deg C	←	←
Weight	2.1 kg	←	3.7 kg
Applicable rack mounting bracket	UC-P1012U (EIA 2U)	←	←

Design and specifications subject to change without notice.

Manual Video Switcher

SW-201U
5-INPUT VIDEO SWITCHER

SW-202U
10-INPUT VIDEO/AUDIO SWITCHER

- **These units are mechanically-locked image signal switchers and because the selected condition is maintained regardless of whether the system's power is ON/OFF they are ideal preset switches.**
- **These units are excellent for system formation due to their sound signal switching function and control signal output. (SW-202U only)**

SW-201U

SW-202U

SW-201U	
Video input:	5 inputs, VBS: 1.0 Vp-p, 75 ohms, BNC
Video output:	1 output, VBS: 1.0 Vp-p, 75 ohms, BNC
Dimensions:	210 (W) x 93 (H) x 239 (D) mm
Weight:	1.2 kg
Applicable rack mounting bracket:	UC-P1012U (EIA 2U)

SW-202U	
Video input:	10 inputs, VBS: 1.0 Vp-p, 75 ohms, BNC
Audio input:	10 inputs, 0 dBs, high impedance, RCA-pin
Video output:	1 output, VBS: 1.0 Vp-p, 75 ohms, BNC
Audio output:	1 output, 0 dBs, high impedance, RCA-pin
Control signal output:	10-circuit make-contact signal according to select switch setting (Capacity: 35 V DC, 0.25 A)
Dimensions:	210 (W) x 93 (H) x 239 (D) mm
Weight:	1.9 kg
Applicable rack mounting bracket:	UC-P1012U (EIA 2U)
Accessories:	Control signal output connector

Design and specifications subject to change without notice.

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Sequential Switchers

SW-501EG (without CE)

(please check for world-wide availability)

SW-502EG (without CE)

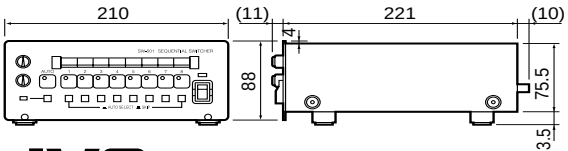
(please check for world-wide availability)

- **Detailed monitoring is possible through two outputs (AUTO and SPOT) for 20 input systems. (eight input systems for SW-501EG)**
- **Using the skipping function, the operator can select which camera will be monitored during auto selection mode.**
- **Because images are switched over within the blanking time, image disturbance is minimised to reduce operator fatigue when monitoring for long periods.**
- **Because the camera number is superimposed, the place to be monitored is easily identified.**
- **Various types of monitoring operation are possible using the built-in alarm inputs and alarm buzzers.**
- **When monitoring is carried out with more than one sequential switch, synchronisation of the switched image is possible using the external timer function.**
- **They offer excellent system formation characteristics due to the large number of selection inputs and outputs.**

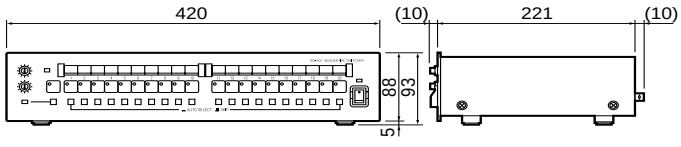
SW-501EG

SW-502EG

SW-501EG



SW-502EG



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Design and specifications subject to change without notice.

Specifications

	SW-501EG	SW-502EG
Video input	8 inputs, VS or VBS, 1.0 Vp-p, 75 ohms, BNC	20 inputs, VS or VBS, 1.0 Vp-p, 75 ohms, BNC
Alarm input	8 inputs (one for each video input), make-contact signal, 13-pin DIN connector	20 inputs (one for each video input), make-contact signal, 13-pin DIN connector × 2
External spot input	3 terminals (3 circuit signals coded to correspond to each video input), make-contact signal, 13-pin DIN connector	5 terminals (5 circuit signals coded to correspond to each video input), make-contact signal, 13-pin DIN connector
Serial control signal input	AUTO, MANUAl (1 to 8), ALARM (1 to 8) selectable, 2 terminals, special signal, 8-pin DIN connector	AUTO, MANUAL (1 to 20), ALARM (1 to 20) selectable, 2 terminals, special signal, 8-pin DIN connector
External timer input	1 input, make-contact signal, 8-pin DIN connector	←
Auto output	1 output, VS or VBS, 1.0 Vp-p, 75 ohms, BNC	←
Spot output	1 output, VS or VBS, 1.0 Vp-p, 75 ohms, BNC	←
Control signal output	3 terminals (3 circuit signals obtained by coding auto output select signal), open-collector output, 13-pin DIN connector	5 terminals (5 circuit signals obtained by coding auto output select signal), open-collector output, 13-pin DIN connector
Serial control signal output	(Outputs status data after the status of the unit has changed) 2 terminals, special signal, 8-pin DIN connector	←
Timer output	1 output, open-collector output, 8-pin DIN connector	←
Frequency response	To 8 MHz	←
DG/DP	Less than 3°, less than 3% (APL to 90%)	←
Crosstalk	Less than –48 dB (4 MHz)	←
Timing of video switching	During V blanking period	←
Alarm indication	Red LED and buzzer (with buzzer ON/OFF switch)	←
Alarm time	2 to 120 seconds selectable	←
Camera number indication	Provided (C1 to C8), with internal ON/OFF switch	Provided (C1 to C20), with internal ON/OFF switch
Timer setting	0.5 to 30 seconds selectable	←
Skip switch	Provided	←
Power requirement	220 to 240 V AC, 50/60 Hz	←
Power consumption	5.2 W	5.6 W
Ambient temperature	Operating: –10 to +50°C (14 to 122°F) Recommended: 0 to +40°C (32 to 104°F)	←
Dimensions (W×H×D)	210×93×242 mm	420×93×242 mm
Weight	2.4 kg	4 kg
Rack mount	Applicable rack mounting bracket: UC-P1012U (EIA 2U)	Possible into EIA 19-inch rack with provided brackets (EIA 2U)

Design and specifications subject to change without notice.

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Distribution

DU-102EG VIDEO SIGNAL DISTRIBUTOR
DU-401EG SYNC SIGNAL DISTRIBUTOR
(without CE) (please check for world-wide availability)

SG-101EG SYNC SIGNAL GENERATOR
(without CE) (please check for world-wide availability)

DU-102EG DU-401EG SG-101EG

DU-102EG
- This unit is equipped with 2 channels for distributors of 1-input/3-distribution type.
- This unit has a built-in cable compensating circuit.
- This unit is equipped with a through output.

DU-401EG
- This unit is equipped with 2 channels for distributors of 1-input/3-distribution type.
- This unit is equipped with a through output.
- Signals from 2.0 Vp-p to 8.0 Vp-p are distributed as a 4.0 Vp-p signal through its output stabilising circuit.

SG-101EG
- This synchronous signal generator has a built-in synchronous signal distributor.
- This unit is equipped with a BB signal output.

DU-102EG DU-401EG

SG-101EG

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Design and specifications subject to change without notice.

Specifications

DU-102EG	
Distributing capacity	2 inputs, each with 3 outputs
Video input	2 inputs, 1.0 Vp-p (VBS), 75 ohms, BNC (through-output, with 75-ohm termination switch)
Video output	3 outputs x 2, 1.0 Vp-p (VBS), 75 ohms, BNC
Signal-to-noise ratio	Better than 55 dB
Frequency response	to 8 MHz
DG/DP	Less than 1°, less than 1% (APL 10–90%)
Crosstalk	Less than –55 dB (4 MHz)
Cable compensation	Two-position switching
Power requirement	220 to 240 V AC, 50/60 Hz
Power consumption	4.9 W
Ambient temperature	Operating: –10 to 50°C (14 to 122°F)
Dimensions	140 (W) x 93 (H) x 239 (D) mm
Weight	1.6 kg

DU-401EG	
Distributing capacity	2 inputs, each with 3 outputs
Signal input	2 inputs, 2.0 to 8.0 Vp-p, 75 ohms, BNC (through-output, with 75 ohm termination switch)
Signal output	3 outputs x 2, 4.0 Vp-p, 75 ohms, BNC
Delay time	Within 200 nsec
Pulse width variation	Within ± 150 nsec
Rise and fall times	Within 100 nsec (with input of 4.0 Vp-p)
Power requirement	220 to 240 V AC, 50/60 Hz
Power consumption	6.5 W
Ambient temperature	Operating: –10°C to +50°C (14°F to 122°F)
Dimensions	140 (W) x 93 (H) x 239 (D) mm
Weight	1.6 kg

SG-101EG	
Signal output	HD: 1 output, 4.0 Vp-p, 75 ohms, BNC VD: 1 output, 4.0 Vp-p, 75 ohms, BNC C. SYNC: 1 output, 4.0 Vp-p, 75 ohms, BNC BB: 1 output, 0.45 Vp-p, 75 ohms, BNC
Distributing output	3 outputs x 2, 4.0 Vp-p, 75 ohms, BNC (each circuit switchable between HD, VD and C. SYNC)
Sync frequency	Burst 4.4336/8 MHz, Horizontal 15.625 kHz, Vertical 50 Hz
Power requirement	220 to 240 V AC, 50/60 Hz
Power consumption	6.5 W
Ambient temperature	Operating: –10°C to +50°C
	(14°F to 122°F)
Dimensions	140 (W) x 93 (H) x 239 (D) mm
Weight	1.6 kg

Long Distance Transmission

DU-501EG

CABLE COMPENSATOR

(please check for world-wide availability)

DU-502EG

TWISTED-PAIR CABLE TRANSMISSION UNIT

DU-501EG

- Because the cable can be extended up to 1.25 km, it is excellent for system formation (when 5C-2V cable is used).
- Stable image signals can be transmitted through its built-in clamp circuit.

DU-502EG

- Because the cable can be extended up to 1.25 km, it is excellent for system formation (when 110 twisted-pair cable is used).
- Stable image signals can be transmitted through its built-in clamp circuit.

DU-501EG

DU-502EG

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Design and specifications subject to change without notice.

Specifications

DU-501EG*

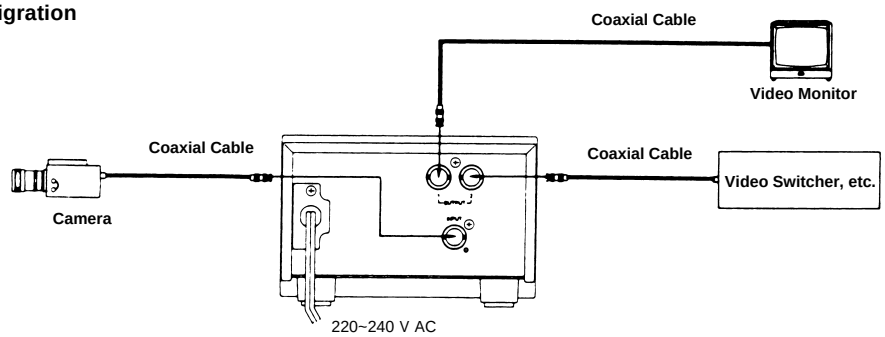
Video input	1 input, 1.0 Vp-p (VBS), 75 ohms, BNC
Video putput	2 outputs, 1.0 Vp-p (YBS), 75 ohms, BNC
Frequency response	to 6 MHz
DG/DP	Less than 3°, less than 3% (APL 10% to 90%)
Cable compensation	9 Position switching
Video stabilizer circui:	Provided
Power requirement	220 to 240 V AC, 50/60 Hz
Power consumption	4.0 W
Ambient temperature: Operating	-10°C to +50°C (14°F to 122°F), Recomended: 0°C to +40°C (32°F to 104°F)
Dimensions	140 (W) x 93 (H) x 239 (D) mm
Weight	1.7 kg
Applicable rack mounting bracket	UC-P1012U (EIA 2U)

*Please check for availability in your region, without CE.

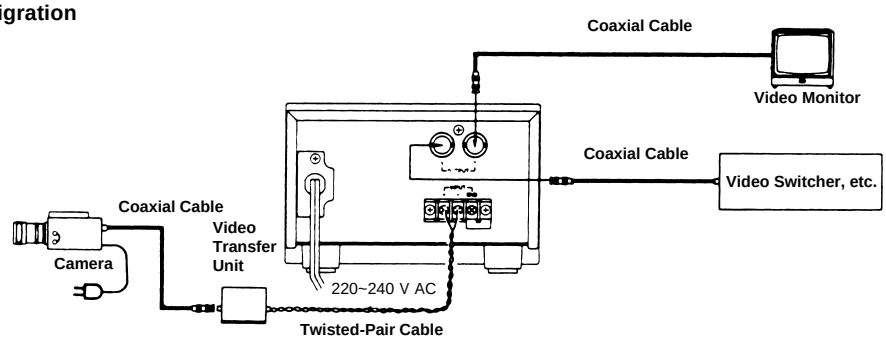
DU-502EG

Video input	Transformer unit: 1 input, 1.0 Vp-p (VBS), 75 ohms, BNC Main unit: 1 input, 1.2 Vp-p (VBS), 110 ohms, balanced, screw terminal
Video putput	Transformer unit: 1 outputs, 1.0 Vp-p (VBS), 110 ohms, balanced, screw terminal Main unit: 2 output, 1.0 Vp-p (VBS), 75 ohms, BNC
Frequency response	to 5 MHz
DG/DP	Less than 3°, less than 3% (APL 10% to 90%)
Cable compensation	9-Position switching
Video stabilizer circuit	Provided
Power requirement	220 to 240 V AC, 50/60 Hz
Power consumption	3.4 W
Ambient temperature	Operating: -10°C to +50°C (14°F to 122°F), Recomended: 0°C to +40°C (32°F to 104°F)
Dimensions	Main unit: 140 (W) x 93 (H) x 239 (D) mm Transformer unit: 58 (W) x 37 (H) x 83.2 (D) mm
Weight	Main unit:1.7 kg Transformer unit: 150 g
Applicable rack mounting bracket	UC-P1012U (EIA 2U)

DU-501EG System Configration



DU-502EG System Configration



Design and specifications subject to change without notice.

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Accessories List

1,4) Colour / Black and White Cameras

AA-P700E	Universal power supply for 12V DC cameras, 230V operation
WB-3002BU	Wall / ceiling bracket with head, 1/4" head

2) Dome Colour Cameras

WB-S671U	Ceiling bracket with extension for TK-C675BE
WB-S572U	Wall bracket TK-C675BE
WB-S573U	Ceiling bracket for direct mounting TK-CB675BE
WB-S671U	Ceiling bracket for embedded mounting TK-C675BE

3) Network Colour Cameras

VC-BK20	V.NETWORKS ceiling bracket for VN-C2U
S-8375	V.NETWORKS 5V DC net adapter for VN-C1U / VN-C2U

5) Time-lapse Recorders

RM-G30U	Wired remote control for Time-lapse recorders
SA-K97U	RS-232C interface board for Time-lapse recorders

6) Colour Monitors

RK-A10E	19" rack mount for two TM-A10E
RK-A14E	19" rack mount for TM-A14PN
RK-A140E	19" rack mount for TM-A140PN
RK-1700E	19" rack mount for TM-1700PN

7) Black and WhiteMonitors

UC-P1016U	19" rack mount for TM-923EG or TM-9043EG
UC-P1027U	19" rack mount for TM-123EG

8) Video System Components and Accessories

DU-102EG	Video signal distributor, 2 input, 3 output each
DU-401EG	Sync signal distributor, 2 input, 3 output each (No CE)
DU-501EG	Coax cable compensator up to 1.2 km (No CE)
DU-502EG	Twisted pair cable transmission system up to 1.2 km
SG-101EG	Sync signal generator (No CE)
SW-201U	Manual video switcher, 5 input
SW-202U	Manual video switcher, 10 input
SW-501EG	Sequential video switcher, 8 input (No CE)
SW-502EG	Sequential video switcher, 20 input (No CE)
TK-C50E	2 channel video splitter
TK-U1003EG	Single coax camera control unit
TK-U1004EG	Single coax camera control unit with camera
TK-U1402EG	Single coax camera control unit for 4 cameras
TM-9043EG	Monitor/4-channel seq. switcher w/power for up to four TK-S140E cameras
UC-P1012U	19" Rack mount for DU, SG, SW and TK system components

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