JVC

For Customer Use: Enter below the Serial No. which is located on the body.

Retain this information for future reference Model No

Serial No.

TK-C720TP

These instructions are for TK-C720TPU and TK-C720TPE.

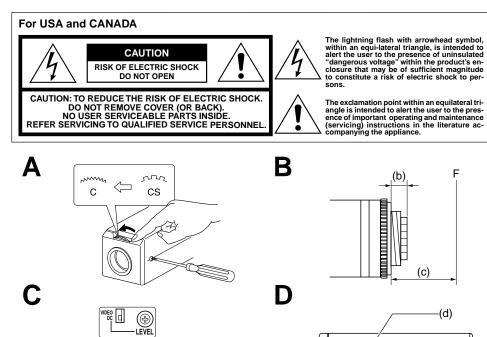
IMPORTANT SAFEGUARDS

- 1. Read all of these instructions. Save these instructions for later use.
- All warnings on the product and in the operating instructions should be adhered to.
- 4. Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 5. Do not use attachments not recommended by the appliance manufacturer as they may cause hazards 6. Do not use this appliance near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet
- basement, or near a swimming pool, etc. 7. Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, PORTABLE CART WARNING (symbol provided by RETAC)
- causing serious injury to a child or adult, and serious damage to the appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the appliance. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 8. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to
- insure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa,
- rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided. 9. This appliance should be operated only from the type of power source indicated on the marking label. If you are
- not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance designed to operate from battery power, refer to the operating instructions. This appliance system is equipped with a 3-wire grounding type plug (a plug having a third (grounding) pin). This
- 10. plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
- 11. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 12. Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it.
- Follow all warnings and instructions marked on the appliance.
 Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 15. Never push objects of any kind into his appliance through cabinet slots as they mat touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous
- voltage or other hazards. Refer all servicing to qualified service personnel 17. Unplug his appliance from the wall outlet and refer servicing to qualified service personnel under following conditions: a. When the power cord or plug is damaged or frayed.

 - b. If liquid has been spilled into the appliance.c. If the appliance has been exposed to rain or water.
 - d. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation. If the appliance has been dropped or the cabinet has been damaged.
 - f. When the appliance exhibits a distinct change in performance this indicates a need for service.
- 18. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 19. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.



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COLOR VIDEO CAMERA

Instructions

Thank you for purchasing the JVC color video camera. To obtain the best results from your new camera, read these instructions carefully before use; retain the manual for future reference.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. Information for USA

This device complies with Part 15 of the FCC Rules

Changes or modifications not approved by JVC could void the user's authority to operate the equipment

INFORMATION (FOR CANADA) RENSEIGNEMENT (POUR LE CANADA)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

PRECAUTIONS

- If an AGC switch is turned on, the sensitivity increases automatically in dark places. It is not a failure when the image looks grainy. If a zoom lens is used, check the back focus before mounting the camera. This also applies to lens ALC and LEVEL. (See the instructions on lenses for details.)
- If a high-intensity object (such as a lamp) is shot, the image on the screen may have vertical lines (smear) or blur (blooming) at its periphery (especially in AES mode). This is a characteristic of the CCD, and is not a defect.
- If an EE lens is used, set the automatic electronic shutter switch (AES) to OFF. If set to ON, flickering may occur. If a manual iris lens is used, set the AES to ON. When used in hot places, vertical lines may appear on the screen of this camera. This is a characteristic of the CCD and not a failure of the camera.
- The automatic tracking system may not function properly when shooting with non-standard lighting or lighting with a color temperature which exceeds the capability of the camera. In such case, set to the "MANU" position.
- If the camera subject is a single solid color (other than white), the auto white circuit will normally attempt to change this color to white. In the case of this camera, if it cannot make a correct prediction, the previous white balance setting will be maintained until the subject colors become more varied.
- Where there are strong electromagnetic waves or magnetism, for example near a radio or TV transmitter, transformer, motor, etc., the picture may contain noise and the colors may be incorrect. Beware of the instruction of noise when installing the twisted pair cable that is used as a connection.
- To save energy, be sure to turn off the system when not in use.

MOUNTING A LENS

- Before mounting a lens, check whether it is a C-mount or CS-mount lens. If a C-Mount lens is used, loosen the back-focus locking screw (M 2.6) using a Phillips head screwdriver, turn the back-focus adjusting ring with your fingers or the screw-
- driver and change the mounting method.
 Dimension (b) of the lens shown in the illustration must be as shown in the table below. If (b) exceeds the value in the table, it may damage the inside of the camera or correct mounting may be impossible; never use such lenses. Do not attach the Cmount lens when using a CS-mount.

Lens	Flange back (c)	Dimension (b)
C mount lens	17.526mm	10mm or less
CS mount lens	12.5mm	5.5mm or less

The F mark indicates a focal point.

- 3. Mount the lens on the camera by turning the lens clockwise. Adjust its position.
 4. When using an auto-iris lens with an EE amplifier, turn the switch to the "VIDEO" side. When no EE amplifier is equipped, turn the switch to the "DC" side.
 5. If the lens has an auto-iris mechanism, connect the lens cable after checking the pin
- arrangement.

If the lens cable has a different type of plug, use the 4PIN PLUG supplied.

in the fens cable has a different type of plug, use the 4 int r 200 supplied.				
Lens Pin No.	DC IRIS (does not contain EE amplifier)	VIDEO IRIS (contain EE amplifier)	1 _⊨= _⊡	
1 2 3 4	Brake ⊖ Brake ⊕ Drive ⊕ Drive ⊖	9.5V [max 50mA] NC VIDEO GND		

CONNECTION

1. When the camera is powered, the POWER LED lights up

CAMERA type	power
TK-C720TPU TK-C720TPE	AC 24V \sim (class 2 only) or DC 12V $$ AC 24V \sim (isolated power only) or DC12V $$

Never connect the DC 12V and AC 24V power inputs simultaneously

• Be sure to observe the correct +, - polarity when connecting a DC 12V power input. Connect the VIDEO OUT +/- terminals, which are on the rear panel, to the +/- terminals on the receiver using twisted pair cable.

Unshielded Twisted Pair

+/- polarities are correct.

· Wire gauge 0.5mm (24AWG) or Thicker

* When using twisted pair cable, make sure that the

*Recommended Receiver

*Recommended I	Receiver	 Recommended wires
Manufacturer	Model No.	Unshielded Twisted
NITEK	VB37	Wire gauge 0.5mm Category Type: 5
NVT	NV-213A	* When using twisted
NVT	NV-652R	+/- polarities are co

3. MONITOR Terminal

The MONITOR Terminal is for connecting to a video monitor. The MONITOR Terminal is used for adjustment of screen framing. *The VIDEO OUT and MONITOR Terminal cannot be used simultaneously.

4. When mounting the camera on a fixer, pan/tilt, etc., use the camera mounting screw hole (d) located on the camera-mounting bracket. CAUTION: Use the screw with a length shorter than 7mm from a camera-mount-

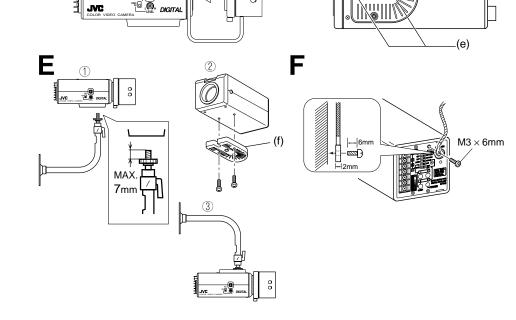
ing face. Furthermore, make use of the rotation prevention hole (e) to prevent the camera



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from falling and securely mount the camera. Special precautions must be taken for mounting the camera on a wall or a ceiling. We are not liable for any damage caused by improper installation.

- 5. Installation of camera
 Mounting from the bottom

This camera is originally designed to be mounted from the bottom, as shown (1). The hole is standard photographic pan-head screw size (1/4-20 UNC). Example the Fixing unit or Pan/Tilt unit.

Mounting from the top Remove the CAMERA MOUNTING BRACKET (f) from the bottom of the camera by removing two fixing screws as shown ②. Attach the CAMERA MOUNTING BRACKET (f) to the top, then mount the camera on the Fixing Unit as shown ③. Make sure that two original screws are used when mounting the CAMERA MOUNTING BRACKET (f). Be sure to use a 6 mm long locking screw for the camera-mounting bracket.

(This camera is used indoor and under similar conditions.)

Fall Prevention

Exercise maximum caution when installing the unit to the wall or ceiling. You should not engage in the installation work yourself. Ask a professional to do the job, since the fall of the unit can result in injuries and accidents.

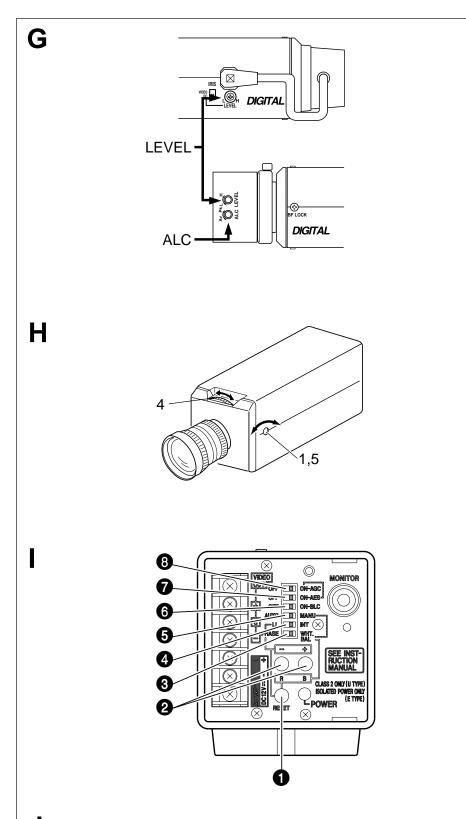


- When installing the unit on a fixer, turn table, etc., make sure to install it firmly using a rotation-preventing hole provided to prevent fall.
- To prevent fall, connect the unit to a section with sufficient strength (ceiling slab or channel) using a fall prevention wire such as a wire chain and the like. Use the screw hole on the back of the unit for installation.

Pay utmost attention to the length of the wire, too.

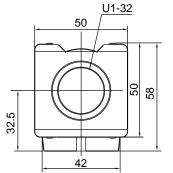
Specified screw (M3 \times 6 mm) Be sure to attach the fall prevention wire by securing it with the screw that is provided for that purpose on the rear panel.

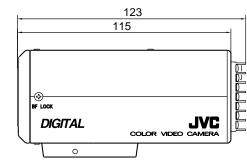
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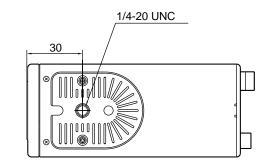


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LWT0035

LENS ADJUSTMENT

Video adjust

Connect the camera according to the connection method, turn it on, display an image on the monitor, and check the image. The camera has been factory-adjusted to the best position, but it may need to be adjusted according to the object conditions or combination of lenses. If the image is unnatural, adjust it as follows:

• LEVEL adjustment

Monitor screen	LEVEL turning direction	
Too bright	Counterclockwise (Toward L)	
Too dark	Clockwise (Toward H)	

ALC adjustment Monitor screen ALC turning direction Part (high-intensity part) of the screen halates Clockwise (Toward Pk) Other part of screen (except high-intensity part) darkens. Counterclockwise (Toward Av)

• If the sensitivity adjustment LEVEL is turned excessively to L, the sensitivity increases because of the AGC function of the camera, and the image looks grainy.

. If the video iris lens is set to too low a level, malfunction such as the hunting phenomenon, in which the iris opens or closes unintentionally, may occur.

In such a case, first set LEVEL potentiometer on the lens to the H (iris open) position then adjust it to the optimum level.

Back focus adjustment

The back focus has been adjusted to the best point for CS-mount lens, but it may need to be re-adjusted if the mount is changed to the C-mount or if a different lens is used. If required, adjust it as follows:

With a fixed-focus lens

If the focus can not be adjusted correctly by rotating the lens focus ring, adjust the back focus as follows.

- 1. Loosen the back focus locking screw by turning it counterclocckwise (\frown) with a screwdriver. 2. Shoot a pattern closely.
- 3. Turn the lens focus ring to ∞.
- 4. Turn the back focus adjustment ring to focus at the best point.
- 5. Tighten the back focus locking screw by turning it clockwise (\frown).

With a zoom lens

- If the image is out of focus when zooming (telephoto wide-angle), adjust the camera as follows:
- 1. Loosen the back focus locking screw by turning it counterclocckwise (
) with a screwdriver.
- Shoot a comparatively dark scene with thin lines.
- Set the lens to the maximum telephoto position, and adjust the lens focus.
- Set the lens to the maximum wide-angle position, and turn the back focus ring to adjust the 4. focus.
 - (Repeat steps 2 and 3 two or three times.)
- 5. Tighten the back focus locking screw by turning it clockwise (\frown).

SETTING SWITCH Line Lock

To set the camera in LL mode for synchronization with the power supply frequency, take the following steps:

- 1. Turn switch 4 to "LL"; 2. Turn switch 3 to "PHASE"
- 3. Press the + or button 2 to make the phase variable.

Adjust with the button **2** so that the vertical phase of the camera matches the vertical phase of another camera (or system) with a multi-channel oscilloscope.

For initial setting, press RESET button 1 TK-C720TPU: 60Hz power region only TK-C720TPE: 50Hz power region only

White Balance

White balance can be adjusted within the scope of 2900K to 8000K color temperature. When switch S is at "AUTO", the white balance is adjusted automatically.

- For manual adjustment, take the following steps:
- 1. Turn switch **5** to "MANUAL"; 2. Turn switch **3** to "WHT.BAL";
- 3. Pressing "R" button 2 increases redness while pressing "B" button 2 increases blueness. For initial setting, press RESET button 1.
 - There are cases sometimes when the white balance cannot be adjusted manually for artifical lights such as fluorescent lights, etc.

BLC (Back Light Compensation)

The switch **()** improves an image that is darkened because of backlighting. Set this switch to ON for backlight subjects.

AES (Automatic Electronic Shutter)

Turning this switch 🕖 "ON" when a lens with a manual iris diaphragm is used enables the automatic adjustment of image brightness. In this case the shutter speed changes according to the brightness of the subject. AES functions only when AGC switch (8) is turned on.

Hunting may occur at a certain object brightness due to the mechanism of the AES circuit, but this is not a fault.

AGC (Automatic Gain Control)

The switch (3) automatically increases the camera's sensitivity when the level of ambient light drops.

ON: AGC is activated. OFF: AGC is not activated

SPECIFICATIONS

Image pickup device Synchronization method

 $\begin{array}{l} \mbox{1/3-inch interline-transfer CCD} \\ \mbox{TK-C720TPU} : \mbox{768 (H)} \times \mbox{494 (V)} \\ \mbox{TK-C720TPE} : \mbox{752 (H)} \times \mbox{582 (V)} \\ \end{array}$: Internal

Line lock (TK-C720TPU 60 Hz, TK-C720TPE 50 Hz regions only) : TK-C720TPU: (H) 15.734 kHz (V) 59.94 Hz TK-C720TPE: (H) 15.625 kHz (V) 50 Hz : 470 TV line (H) Typ. Scanning frequency Resolution 1.2 V(p-p), 100 Ω, balanced VIDEO OUT **MONITOR** output Composite video signal 1 V (p-p), 75 Ω, unbalanced Video S/N ratio : 50 dB (AGC OFF) Minimum required illumination : 1.5 lx (25%, F1.2, AGC ON), 3.0 lx (50%, F1.2, AGC ON) C/CS mount Lens mount TK-C720TPU : AC 24 V \sim 60 Hz DC 12 V \pm 4.4W TK-C720TPE : AC 24 V \sim 50 Hz/60 Hz DC 12 V \pm 360mA -10° C to 50°C (operation) 0°C to 40°C (recommended) Power supply and power consumption Ambient temperature Mass **380** g Provided accessory 4 PIŇ PLUG×1 WARRANTY CARD (TK-C720TPU only)×1 **DIMENSIONS (Unit: mm)**

(Design and specifications are subject to change without notice.)



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