

Color CCD Camera

WAT-241

Operation Manual

This Operation Manual covers safety, camera functions, installation and the correct operating procedure for the WAT-241. First, we ask you to read this Operation Manual thoroughly, then install and operate the WAT-241 as advised. In addition, for future reference, we also advise safekeeping of this manual.

Please contact the distributor or dealer from which the WAT-241 was purchased, if you do not understand the installation, operation or safety instructions laid out in this manual. Not understanding the contents of the Operation Manual sufficiently may cause damage to the camera.

Guide to the Safety Symbols

The definitions of the symbols used in this operation manual are:

Danger

When you do not adhere to or take notice of the "Danger" sign, it may lead to a serious accident such as death or injury caused by fire or electric shock.

Warning

When you do not adhere to or take notice of the "Warning" sign, it may cause severe damage such as a physical injury.

When you do not adhere to or take notice of the "Caution" Caution sign, it may incur injury and cause damage to peripheral objects in the immediate surroundings.

Cautions for Safety

The WAT-241 is designed to be used safely; however, it may lead to a physical accident caused by fire and electric shock if not used correctly. Therefore, please keep and read the "Cautions for safety" for protection against accidents.

Danger

Warning

Caution

Do not disassemble and/or modify the WAT-241. • Do not operate the WAT-241 with wet hands.

• Use only the AD901-120/230 or equivalent power adaptor for the WAT-241

- The recommended voltage is $DC+12V\pm10\%$.
- Do not expose the WAT-241 to wetness or high moisture conditions.

The WAT-241 is designed and approved for indoor use only. The WAT-241 is not water-resistant or waterproof. If the location of the camera is outdoors or in an outdoor like environment, we recommend that you use an outdoor camera housing.

- Protect the WAT-241 from condensation. Keep the WAT-241 dry at all times during storage and operation.
- Should the camera not work properly, switch off the power immediately. Then check the camera according to the "Problems and Trouble shooting" section.

· Avoid the striking of hard objects or dropping the WAT-241.

The WAT-241 uses high quality electrical parts and precision components.

• Do not connect any power supply directly to the video out terminal of the unit.

Do not connect the WAT-241 with any monitor using a video/power single transmission terminal. The WAT-241 is not designed for use with this type of equipment. We also advise you to read the operation manual of the monitor you plan to use before any connections are made.

• Do not install the WAT-241 in a position subject to direct sunlight.

Sunlight shinning directly onto the WAT-241 lens can cause damage to the CCD.

- Select a stable place for installation of the WAT-241. Use a support of durable strength around an installation position on a ceiling or wall when a camera stand or tripod is used.
- Do not move the WAT-241 with the cables connected. Before moving the WAT-241, always remove the video cable and power cable from the rear of the camera first. Avoid using the WAT-241 near any strong electro-
- magnetic field. After installing into main equipment, if the WAT-241 is exposed to electromagnetic waves causing the

monitored image to become distorted, we recommend the camera be shielded by appropriate protective casing.

Problems and Trouble Shooting

If any of the following problems occur when using the WAT-241,

- An optimal picture cannot be obtained, after checking that all the cables and connections are correctly in place
- Smoke or any unusual odor emerges from the WAT-241
- An object becomes embedded or a quantity of liquid seeps into the camera housing
- More than the recommended voltage or/and amperage has been applied to the WAT-241 by mistake
- Anything unusual occurring to any equipment connected to the WAT-241

Disconnect the camera immediately according to the following procedures:

①Switch off the main power supply to the camera.

②Remove the power and video cables connected to the WAT-241. ③Contact the distributor or dealer from which the WAT-241 was purchased.

About EMC

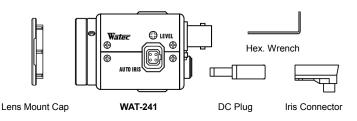
The WAT-241 is in conformity with EMC test standards carried out by authorized organizations in Japan.

- NTSC FCC Part15 class B
- PAL EN61000-6-3 / EN50130-4

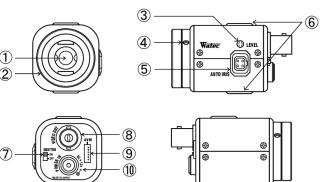
Do not modify the WAT-241. A modified camera may not Danger conform to EMC test standards.

Contents

Using the contents figures below, check to make sure all parts are present before use.



Description of Parts



①CCD FRONT FACE

 The light receiving face of the CCD camera (Dirt, water or oil deposits on the CCD will cause an unclear picture on the monitor. Attach the lens cap to protect the lens and the CCD from contamination and damage.)

(2)LENS MOUNT

Mount for the lens (CS-mount)

③IRIS LEVEL VOLUME

· By controlling the volume, the iris level of the DC iris lens can be adjusted.

(4) FOCUSING ADJUSTMENT SCREWS

 There are 3 hex. adjustment screws each placed at intervals of 120° for fine focusing of the lens.

⑤AUTO-IRIS SOCKET

 This socket is for the video/DC auto-iris lens cable connector. (Video/DC: Auto selected by the camera)

(6) TRIPOD MOUNTING SCREW HOLES

• Mounting holes for stands. The size of these threads are 1/4", 20 threads, 4.5 ± 0.2 mm, which is the same as any standard camera tripod (U1/4").

⑦AE MODE CONTROL

The switch for the electronic shutter mode control.

(8) VIDEO OUT (BNC)

- The terminal for composite video signal output
- **(9) AVM CONNECTION TERMINAL**
- Terminal for the connection of the Active Visual Mate.(See Options)

10 POWER IN

 The terminal designed for connection with the DC-plug of the power adaptor.

Power Supply

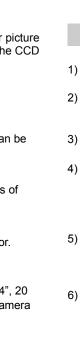
If any other power adaptor besides the AD901-120/230 is used, please use a stabilized power adaptor designed for DC+12V±10%, with a current capacity of more than 250mA.

Use the optional DC plug if the shape or polarity of the DC plug of the power adaptor to be used is not compatible with the camera (See the drawing on the right below).



The wiring on the connector must be exact. Be careful no to touch the other terminal while wiring. Protect the wiring portion by using insulation tape after wiring. If the above care and attention is not adhered to, damage to the WAT-241 and power adaptor may occur and may also cause fire.





- Iris Level Adjustment (for DC auto-iris lenses only) Adjust ③IRIS LEVEL VOLUME placed on the side of the unit until an acceptable light level is attained. No change will occur if a video iris lens or manual iris lens is fitted.

8) Select the required shutter speed mode by the ⑦AE MODE CONTROL.

Auto-iris Lens

Before connecting the auto-iris lens, please make sure that the pin configuration is correct by checking with the following table. If the configuration of your iris connector is different from the following, the plug and pins will need to be rewired.

2	Pin No.	EIAJ Video Auto-iris Lens Arrangement	EIAJ DC Auto-iris Lens Arrangement
	1	Power	Control –
- (1)	2	Not used	Control +
	3	Iris signals	Drive +
	4	Common (GND)	Drive —

Set-up and Operation

- 1) Ensure that the power to the WAT-241 and the peripheral equipment is turned off before making any connections.
- 2) Remove the lens mount cap from the WAT-241 and attach the CSmount lens. Use the optional C-mount adaptor(30CMA-R) when a C-mount lens is used.
- 3) Connect the iris control cable to ⑤AUTO-IRIS SOCKET on the WAT-241 when an auto-iris lens is being used.
- 4) Connect (8) VIDEO OUT on the WAT-241 with the monitor, using a coaxial cable with 75Ω impedance, such as an RG-58/U or an RG-6/U. Select a monitor with the same television system as the WAT-241: NTSC or PAL. A monitor with more than 500TV lines is recommended
- 5) Insert the power plug of the power adaptor to **OPOWER IN** on the back panel of the WAT-241. Confirm that the power adaptor is not connected to the power supply before insertion of the power plug into ⁽¹⁾POWER IN.
- 6) Turn on the power to the WAT-241, monitor and all other allied equipment. When a picture cannot be obtained on the monitor, or a problem occurs, check and follow the procedure mentioned in the [Problems and Trouble Shooting] section.
- 7) After following the procedure below and the picture is still out of focus, open the iris fully and loosen ④FOCUSING ADJUSTMENT SCREWS with the hex. wrench and move the lens forwards until a clear picture is obtained.

Manual Lens	Adjust the focus and iris to the best position on the lens.	
Video Auto-iris Lens	Adjust the focus on the lens.	
DC Auto-iris Lens	Adjust the iris level on the camera, then adjust the focus on the lens. See below.	



AE Mode	Effect	
ON (EI)	Automatically selects the shutter speed in the range between NTSC1/60-1/100000, PAL1/50 -1/100000 according to the lighting condition.	
OFF	Fixes the shutter speed to NTSC1/60, PAL1/50.	

Options

To purchase these options, please contact the distributor or dealer from which you purchased the WAT-241.



Controller for function settings (Active Visual Mate)

The compact controller for the WAT-241. Function settings can be changed by the user according to environment.



AC Adaptor (AD 901-120/230)

The recommended AC adaptor for the WAT-241 for a constant and stable power supply.

C-mount Adaptor (30CMA-R)

This lens mount adaptor is used

to convert a CS-mount to a

$\begin{array}{ c c c c } \hline Pick-up Element & 1/4 inch interline transfer CCD image sensor \\ \hline Number of Total Pixels & 811(H) × 507(V) & 795(H) × 595(V) \\ \hline Number of Effective Pixels & 768(H) × 494(V) & 752(H) × 582(V) \\ \hline Unit Cell Size & 4.9\mum(H) × 5.6\mum(V) & 5.0\mum(H) × 4.7\mum(V) \\ \hline Imaging system & Ye, Cy, Mg, and G complementary color mosaic filters on chip \\ \hline Sync. System & Internal \\ \hline Scanning System & 2:1 interlace \\ \hline Video Output & Composite video, 1.0 V(p-p) 75 \Omega & (Unbalanced) \\ \hline Resolution (H) & More than 450TVL (Center) \\ \hline Minimum Illumination & 0.6 Ix. F1.2 \\ \hline S/N & More than 50dB (AGC=6dB, \gamma=1.0) \\ \hline AE Mode & ON & 1/60-1/10000 sec. & 1/50-1/10000 sec. \\ \hline OFF & 1/60 sec. & 1/50 sec. \\ \hline White Balance & ATW \\ \hline AGC & 6-30dB \\ \hline Gamma Characteristics & \gamma \doteq 0.45 \\ \hline Lens-iris & Video / DC (EIAJ arrangement, Auto-select) \\ \hline Back Light & ON \\ \hline Compensation & ON \\ \hline Power Supply & DC+12V \pm 10\% \\ \hline Electric Power & 0.96W (80mA) \\ \hline Operating Temperature & -10 - +40°C (Without condensation) \\ \hline Operating Humidity & Less than 95\% RH \\ \hline Storage Temperature & -30 - +70°C (Without condensation) \\ \hline Storage Humidity & Less than 95\% RH \\ \hline Lens Mount & CS-mount \\ \hline Size & 35.5 (W) \times 36(H) \times 62.5(D) mm \\ \hline Weight & Approx. 82g \\ \hline \end{array}$	Mo	del	WAT-241 (NTSC)	WAT-241 (PAL)	
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	Lens N	Nount	CS-mount		
Weight Approx. 82g	Siz	ze	35.5 (W) × 36(H) × 62.5(D) mm		
	Wei	ght	Approx. 82g		

• Design and specifications are subject to change without notice.

• Watec is not responsible for any inconvenience or the attendant damages to the video and monitoring recording equipment caused by misuse, misoperation or improper wiring of our equipment. • If for any reason the WAT-241 does not work properly, or if you have any

questions regarding installation or operation, please contact the distributor or dealer from which it was purchased.



Mini Stand (MS50)

C-mount.

A convenient stand for the WAT-241. With this stand, the camera can be adjusted to any desired angle.

Contact information



http://www.watec.net

1404Z00-Y2000003

Specifications

Madal