



1/3.2" High Sensitivity Miniature D/N Camera

WAT-1200CS

Operation Manual

This operation manual covers safety, camera functions, installation and the correct operating procedure for the WAT-1200CS. First, we ask you to read this operation manual thoroughly, then install and operate the WAT-1200CS as advised. In addition, for future reference, we also advise safekeeping of this manual.

Please contact the distributor or dealer from which the WAT-1200CS 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:



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.



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" sign, it may incur injury and cause damage to peripheral objects in the immediate surroundings.

Cautions for Safety

The WAT-1200CS 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" below for protection against accidents.



- **Do not disassemble and/or modify the WAT-1200CS.**
- **Do not operate the WAT-1200CS with wet hands.**



- **Use a stabilized power adaptor designed for DC 5V to 12V, with a current capacity of more than 250mA for the WAT-1200CS.**
The recommended voltage is DC 5V to 12V.
- **Do not expose the WAT-1200CS to wetness or high moisture conditions.**
The WAT-1200CS is designed and approved for indoor use only. The WAT-1200CS 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-1200CS from condensation.**
Keep the WAT-1200CS 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-1200CS.**
The WAT-1200CS 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-1200CS with any monitor using a video/power single transmission terminal. The WAT-1200CS 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-1200CS in a position subject to direct sunlight.**
Sunlight shining directly onto the WAT-1200CS lens can cause damage to the image sensor.
- **Select a stable place for installation of the WAT-1200CS.**
Always fix the camera securely. See "Mounting Holes" section.
- **Do not move the WAT-1200CS with the cables connected.**
Before moving the WAT-1200CS, always remove the video cable and power cable from the rear of the camera first.
- **Avoid using the WAT-1200CS near any strong electromagnetic field.**
After installing into main equipment, if the WAT-1200CS 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-1200CS,

- 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-1200CS.
- 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-1200CS by mistake.
- Anything unusual occurring to any equipment connected to the WAT-1200CS.

Disconnect the camera immediately according to the following procedures:

- ① Switch off the main power supply to the camera.
- ② Remove the power and video cables connected to the WAT-1200CS.
- ③ Contact the distributor or dealer from which the WAT-1200CS was purchased

About EMC

The WAT-1200CS is in conformity with EMC test standards carried out by authorized organizations in Japan.

NTSC: FCC Part15

PAL: EN61000-6-3/EN50130-4

FCC Notice "Declaration of Conformity Information"

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generated, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

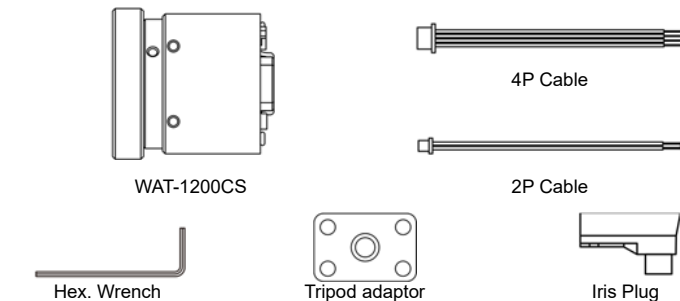
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

- Do not modify the WAT-1200CS. A modified camera may not conform to EMC test standards.
- Please use an auxiliary power supply (eg: UPS) to this camera to comply with EN50130-4 of EMC standards.
- Compatibility of EMC will have tested using the accessories and optional accessories.

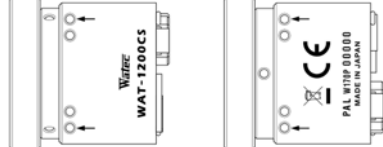
Contents

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

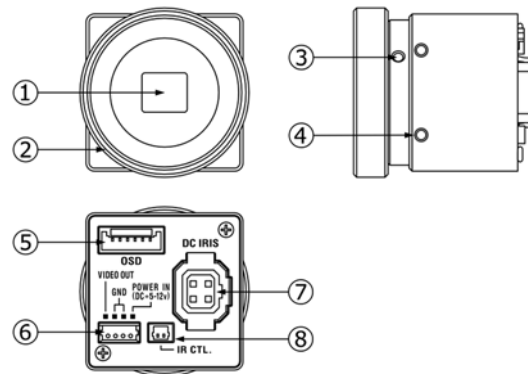


About tripod adaptor

When using the supplied tripod adaptor, refer to the figure below and secure the adaptor to the camera using the M2 x screws(included)



Description of Parts



- ① **LENS FRONT FACE**
The light receiving face of the Lens (Dirt, water or oil deposits on the lens will cause an unclear picture on the monitor. Attach the lens cap to protect the lens from contamination and damage.)
- ② **LENS MOUNT**
Mount for lens (CS-mount).
- ③ **FINE FOCUS ADJUSTMENT SCREWS**
There are 3 hex. Adjustment screws each placed at intervals of 120° for fine focusing of the lens.
- ④ **MOUNTING HOLES**
These mounting holes are used to mount the camera. Screw Size : M2, Depth: 2.5mm
There are a total of 12 mounting holes encompassing the left, right, top and bottom of the camera.
- ⑤ **OSD (On Screen Display) CONNECTOR**
The terminal designed for connection with remote control for setting the functions on the screen.
- ⑥ **POWER IN / VIDEO OUT**
The terminal for power input and video signal output. Use the attached 4P cable for this purpose.
- ⑦ **DC-Iris Socket**
This socket is for the DC auto-iris lens cable connector.
- ⑧ **POWER SUPPLY CONTROL CONNECTOR for LED** The terminal controls power output (3.3V) for LED in PWM method. Connect the 2p cable for its use. The camera automatically controls the brightness of attached LED.

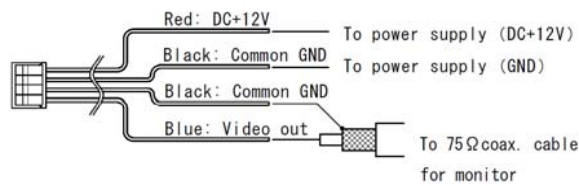
Power Supply and Wiring

Use a stabilized power adaptor designed for DC+5V to 12V, with a current capacity of more than 250mA

The wiring on the connector must be exact.

Be careful not 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-1200CS and power adaptor may occur or may cause fire.

4P Cable



Set-up and Operation

- 1) Refer to the "Power Supply and the wiring" must be exact.
- 2) Join the video out cable with the video in cable of the monitor or peripheral equipment.
- 3) Join the power supply using the correct procedure.
- 4) Make sure that a picture can be seen on the monitor.
- 5) To focus, turn the lens clockwise or counterclockwise while observing the picture on the monitor. Take care when focusing not to scratch or damage the lens.

Options

To purchase these options, please contact the distributor or dealer from which you purchased the WAT-1200CS.



Remote Controller (RC-01)

Remote control for controlling the On Screen Display menu to change camera settings.



Cable with BNC socket and connector (CB-01)

The cable with BNC/DC socket. (Cable Length: 1m)

Contact information

- 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, miss-operation or improper wiring of our equipment.
- If for any reason the WAT-1200CS 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.

Contact information



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