

1/3.2" Ultra-compact High Sensitivity Day/Night Camera WAT-1300 (G3.6) Operation Manual

Thank you for purchasing the "1/3.2" Ultra-compact High Sensitivity Day/Night Camera **WAT-1300 (G3.6)**" (reffered to as the "product" or "camera" in this manual). This operation manual covers safety, functions, installation and the correct operating procedure for the camera. First, we ask you to read this operation manual thoroughly, then install and operate the product as advised. For future reference, we also advise safekeeping of this manual. If you do not understand the installation, operation or safety instructions expressed in this manual, please contact the distributor or dealer from where the camera was purchased. Not understanding the contents of the operation manual sufficiently may cause damage to the camera, personal belongings and/or result in injury. 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.

To Use This Product Safely

Watec cameras are designed to be used safely. If not used safely, it may lead to a physical accident caused by fire and electric shock. Therefore, please keep and read the "Cautions for safety" (P.2) for protection against accidents.

Guide to the Safety Symbols

DANGER	"DANGER" indicates a compulsorily prohibition to prevent accidents.
	"Warning" may lead to a serious accident such as death or injury caused by fire or electric shock.

CAUTION "Caution" may incur injury and cause damage to the camera and/or peripherals in the surroundings.

Power Supply

For the product, use a stabilized power adaptor designed for DC+5-12V with a current capacity of more than 350mA. Wiring of the connector must be exact (see "Description of Parts" (P.3) "[®](P.3)" (P.3)" (

Cautions for Safety

Please read and understand the "Cautions for safety" below to ensure the correct use of the product.

- 🚫 DANGER
- \cdot Do not disassemble and/or modify the camera.
- \cdot Do not operate the camera with wet hands.

MARNING

G · Use the camera within the range of the power supply voltage specifications

The recommended voltage is DC+5-12V. Also, we advise the use of an "inline fuse" power line to protect the camera and peripheral equipment, where applicable.

 \cdot Do not expose the camera to wetness or high moisture conditions.

The camera is designed and approved for indoor use only.

The camera is not water-resistant or waterproof.

· Protect the camera from condensation.

Keep the camera dry at all times during storage and operation.

• Should the camera not work properly, unplug the power immediately.

Check the camera according to the "Problems and Trouble shooting" (P.5) section.

Avoid the striking of hard objects or dropping the camera.

The camera use high quality electrical parts and precision components and may inadvertently be damaged if not cared for properly.

- Do not connect any power supply directly to the video out terminal of the unit. Applying voltage to the video output terminals may cause damage.
- \cdot Do not install the camera in a position subject to direct sunlight.

Sunlight shinning directly onto the camera lens can cause damage to the sensor.

· Select a stable place for installation of the camera.

Use an appropriately rated mount durable and strong for all installation position.

• Turn off the power of the camera and peripherals when moving them and disconnect the all connecting cables.

Before moving the camera, always remove any cables from the rear of the camera first.

Follow the procedure below to disconnect the cables.

1) Remove the video cables connected to the camera.

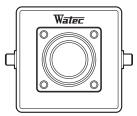
2) Remove the power cables connected to the camera.

· Avoid using the camera near any strong electro-magnetic field.

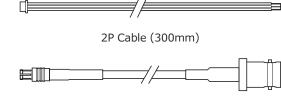
In the event of exposure to electromagnetic waves (causing the monitored image to become distorted) we recommend the camera be shielded by an appropriate protective casing.

Contents

Referring to the illustration below, confirm all parts are present upon receipt of camera.



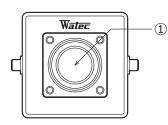
WAT-1300 (G3.6) (Camera)





Description of Parts

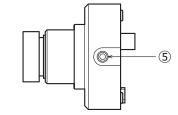
Front

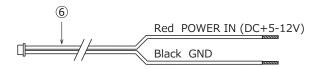


Rear



Side





① LENS FRONT FACE

The light receiving face of the Lens. Dirt, water or oil deposits on the image sensor will cause an unclear picture on the monitor.

②VIDEO OUT TERMINAL

The terminal for HD-SDI signal output.

3REMOTE CONTROL TERMINAL

The terminal designed for connection with the remote control for setting the function on the OSD menu.

④POWER IN TERMINAL

The terminal for power input.

SCAMERA MOUNTING FEATURES

M2 screw holes for fixing the camera. Use when mounting the camera on such as the **B001** bracket.

6 2P Cable

Wiring of 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.

Set-up and Operation

- 1) Ensure that the power to the camera and the peripheral equipment is turned off before making any connections.
- 2) Remove the lens mount cap from the camera.
- 3) Connect the 2P Cable to "@POWER IN TERMINAL" .
- 4) Turn on the power to the camera, monitor and all other allied equipment.
- 5) Connect the MCX-BNC cable to "2VIDEO OUT TERMINAL" on the camera with a monitor using a high frequency coaxial cable with 75Ω impedance. *When the image cannot be obtained on the monitor, or a problem occurs, check and follow the procedure mentioned in the "Problems and Trouble Shooting" (P.5).
- 6) Adjust the focus and iris until optimal image clarity through the lens is achieved.
- 7) If the above operations do not provide sufficient images or if more detailed settings are required, set various functions on the OSD menu. *To change camera functions on the OSD menu, connect the optional RC-01 (remote controller) to "3REMOTE CONTROL TERMINAL".

Options

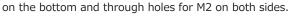
This product exerts the optimum performance with our recommended options. Please take a look at our website and catalog introducing more options. Contact the distributor or dealer for purchase.



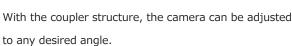


MS50

Convenient for mounting the camera. There is a U1/4 screw









CB-10 (POWER IN) Power cable with jack.

RC-01

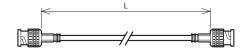
B001

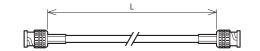
This controller is used to set various functions on the screen.

About Coaxial Cables

Model

The following optional coaxial cables are recommended for connection to the MCX-BNC cable.





Model	Length (L)m
3CFW(BNC/BNC)-2.5M	2.5
3CFW(BNC/BNC)-3M	3
3CFW(BNC/BNC)-5M	5
3CFW(BNC/BNC)-10M	10

Length (L)m 2.5CHD(BNC/BNC)-2.5M 2.5 2.5CHD(BNC/BNC)-3M 3 2.5CHD(BNC/BNC)-5M 5 2.5CHD(BNC/BNC)-10M 10

If you use other cables instead of the above, we recommend the following cables and transmission distances.

3CFB(BNC/BNC) 50m or less, 5CFB(BNC/BNC) 100m or less

For other cables, please contact the cable manufacturer.

Problems and Trouble Shooting

Trouble Shooting:

Disconnect the camera immediately should any of the following occur:

- · 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 camera
- \cdot An object becomes embedded or a quantity of liquid seeps into the camera housing
- · More than the recommended voltage and/or amperage has been applied to the camera by mistake
- · Anything unusual occurring to any equipment connected to the camera

Required Action:

- 1) Turn off the main power supply to the camera.
- 2) Remove the video cables connected to the camera.
- 3) Remove the power cables connected to the camera.
- 4) Contact the distributor or dealer from which the camera was purchased.

After-sales Service

Warranty

All Watec products before being shipped to our customers are tested and inspected to ensure that our products are not faulty and are of the highest quality as directed by our Watec Quality-control System. Watec camera have a 3-year warranty, and the board camera units and peripherals have a 1-year warranty, provided that the products have been operated in accordance with our operation manual and have not been altered in any way.

Note: The Watec 3-year warranty does not cover image sensor repair or replacement caused by white blemish phenomena. For more details about the white blemish, please refer to the "After-sales Service" on our website or catalog.

Repair Service

Watec makes it a policy to repair Watec products first hand with the appropriate charge in accordance with the detailed defect information supplied by you. All repairs in the Watec workshop are quickly and precisely dealt with and returned after the shortest repair period possible.

Contact information

Design and specifications are subject to change without notice. If for any reason the camera does not work properly, or if you have any questions regarding installation or operation, contact the distributor or dealer from which the camera was purchased.

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