

INTRODUCTION:

Thank you for choosing our WAT-300D CCD camera.

WATEC hopes that both the quality and design satisfy your requirements.

Before proceeding to install or operate the WAT-300D, please read and understand thoroughly the contents of this Operation Manual.

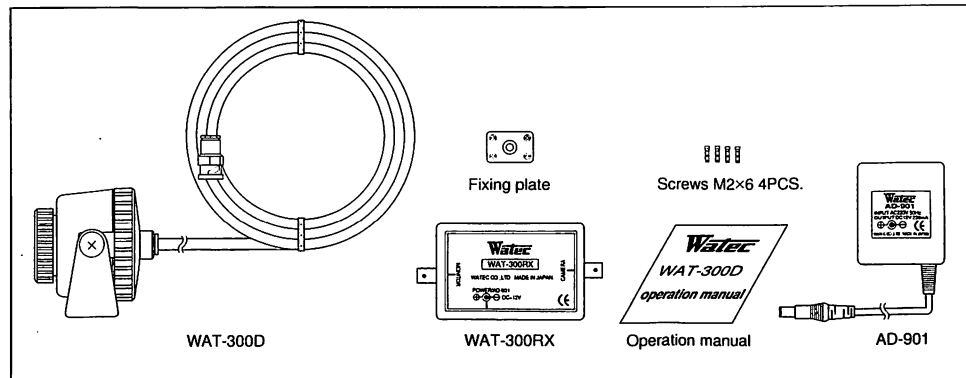
For future reference we also advise safe-keeping of this manual.

CAUTIONS:

1. Use only the AD-901 or equivalent power adaptor for the WAT-300D. (Power supplied without voltage stabilization and/or voltage range maintained at $\pm 10\%$ 12VDC may cause damage.)
2. Do not use the WAT-300D under water and avoid installation of the WAT-300D in such places as where much water is splashed and chemicals are adhered to the WAT-300D.
Avoid the striking of hard objects or dropping the unit.
4. Do not disassemble and/or modify the WAT-300D, its component parts or accessories. WATEC can not be held responsible for the equipment operation or any damages and/or trouble caused by such action.
5. Do not install the WAT-300D near heat sources, such as radiators or heating air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
6. When installing the WAT-300D in an industrial or commercial environment (i.e., within equipment housing near other electronic device, etc.) make sure to avoid any strong electromagnetic field, otherwise, the video output may be distorted and monitor clearness compromised.
7. Use only the WAT-300RX or WAT-708RX for its receiver.
8. Direct connection of the power source with the coaxial cable connector of the WAT-300D will cause damage to the WAT-300D.
9. When a one-line coaxial cable system, (which supplies the direct current to the video signal terminal), check the specifications of requirements in your monitor for proper connection with the video signal terminal of the camera.
10. Should the WAT-300D not work properly, switch off the power and then, check all the required connectors and power cable and the video cable are properly connected.
... Direct sunlight onto the camera lens can cause damage to the CCD.

CONTENT:

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



INSTALLATION:

NOTE: Dirt, water or oil deposits on the front protection glass either will cause an unclear picture on the monitor.

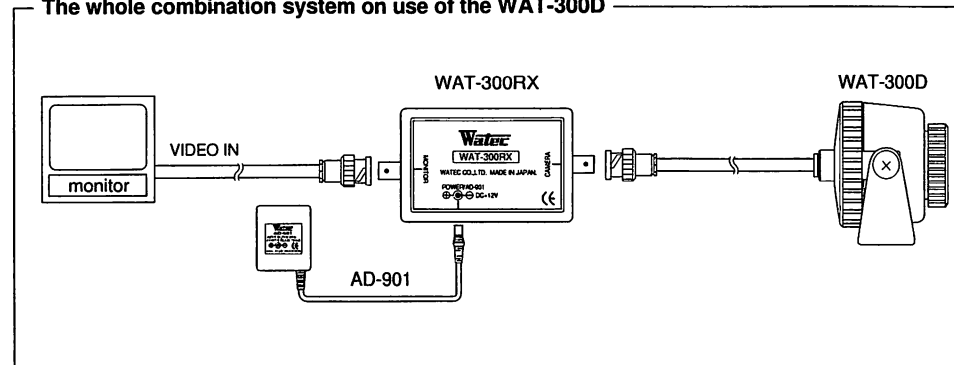
: Fix the WAT-300D firmly using two guide holes on the bottom of the metal camera yoke.

: The metal camera yoke can be mounted on the standard camera tripod using the fixing plate included in this complete set.

OPERATION:

NOTE: Confirm the power on the WAT-300D and the monitor are OFF before making any connections.

The whole combination system on use of the WAT-300D



NOTE: A 3C2V or 5C2V coaxial cable with 75 Ω impedance must be used for connection between the WAT-300D and the WAT-300RX.

: Use the equivalent of the standard 10m coaxial cable provided for the WAT-300D when the cable is extended.

: Use the AD-901, AC adaptor for the power supply.

Important for Monitors

: Select the monitor with the same version as the WAT-300D, as the monitor has both EIA and CCIR versions in the transmission method.

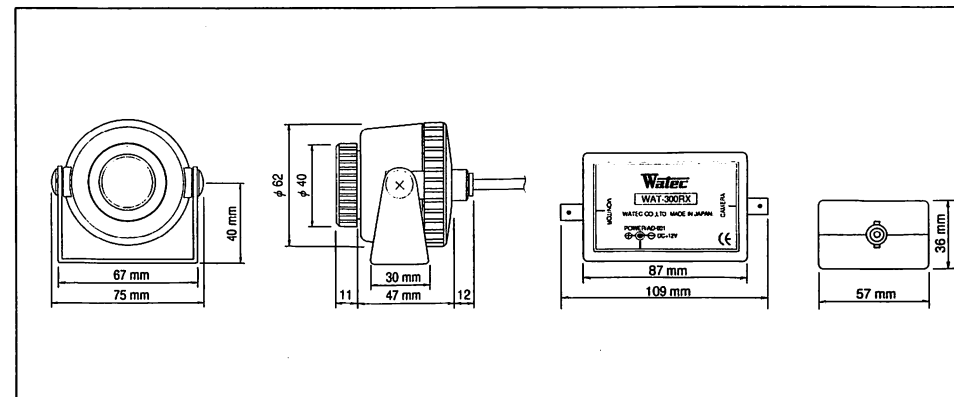
: A monitor with horizontal resolution of more than 500TV lines is recommended.

CAUTION: Do not use the monitor which runs Direct Current at video signal terminal on the monitor.

: Switch on the WAT-300D, monitor and all other allied equipment.

NOTE: Remove the power jack of the AD-901, AC adaptor at once whenever the picture does not appear on the monitor.

OUTER DIMENSION: (Unit:mm)



SPECIFICATIONS:

Model	WAT-300D (EIA)	WAT-300D (CCIR)
Pick-up element	1/2" Interline transfer CCD image sensor	
Number of total pixels	537(H)×505(V)	537(H)×597(V)
Number of pixels	510(H)×492(V)	500(H)×582(V)
Unit cell size	12.7 μm(H)×9.8 μm(V)	12.7 μm(H)×8.3 μm(V)
Sync system	Internal	
Scanning system	2:1 Interface	
Video output	1Vp-p 75Ω (Unbalanced)	
Minimum illumination	(Object) 0.1 Lux F1.6	
Resolution	H:380TV Lines, V:350TV Lines (Center)	
S/N ratio	More than 46dB (AGC off)	
Standard built-in lens	f=3.6mm F1.6 (Auto iris lens) open~60000 Lux	
Gamma characteristic	Γ =0.45	
AGC	More than 18dB	
Power supply	DC +12V±10%	
Current	Max 150mA	
Ambient condition	In door / Out door (Water resistant)	
Storage temperature	-30°C~+70°C	
Operating temperature	-10°C~+40°C	
Dimensions	74mm×74mm×65mm	
Weight	Approx. 650g With 3C2V 10m	

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.

Important:

The camera mentioned above does not comply with this regulation, if it is modified at your disposal.

Design and specifications are subject to change without notice.

WATEC is not responsible for any inconvenience or the attendant damages to the video or audio and monitoring recording equipment, caused by misuse, misoperation or improper wiring of our equipment.

If for any reason the WAT-300D, WAT-300RX dose not work properly, or if you have any questions regarding installation or operation, please contact the distributor or dealer from which it was purchased.



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