

Ikegami

INSTRUCTION MANUAL

MODEL RCU-701

REMOTE SET-UP UNIT

Thank you very much for your purchase of the Ikegami CCD Camera.
Read this Instruction Manual carefully to keep the camera at full capacity.

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OUTDOOR USE WARNING

WARNING — TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

1. General

The Remote Set-Up Unit is designed to remotely make various settings of the ICD-700 CCTV cameras.

Video output coaxial cable is used for multi-channel transmission control, which means that no separate cabling is needed. Function settings and picture quality adjustment of the cameras can be made by means of the monitor screen.

All the settings are kept in memory of the cameras. The unit may therefore be disconnected once the settings have been completed.

2. Handling precautions

- Do not use the unit where it is exposed to water or in a highly humid place.
- Do not disassemble the unit.
- Keep the unit free from any foreign matters.
Never allow any metallic and flammable pieces into the unit. A trouble or accident may result.
- When the unit is not used for a long time or when it runs on an external supply power, take out the batteries.
- Gently handle the unit.
Be very careful not to drop or shock the unit. A trouble or accident may result.

3. Different types for different TV broadcast systems

The RCU-701 is available in two types; NTSC and PAL systems. The types are identified with the markings on the main nameplate at the unit's bottom.

"TYPE N" is for NTSC system and "TYPE P" for PAL system.

Choose the same type as with the cameras in use.

4. Applicable cameras

The following models of cameras can be controlled by the RCU-701.

(1) "TYPE N" cameras for NTSC system

Models ICD-7020, ICD-7024 and ICD-7012

(2) "TYPE P" cameras for PAL system

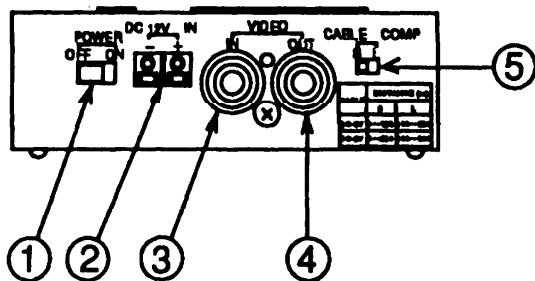
Models ICD-700PAC (AC230V and AC24V) and ICD-700PDC

The RCU-701 does not work for any other cameras than mentioned above.

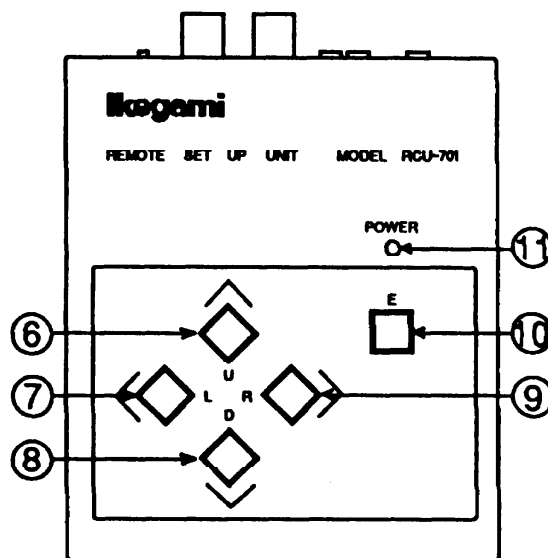
Note: This unit is not intended to supply power to the cameras.

5. Names of parts and their functions

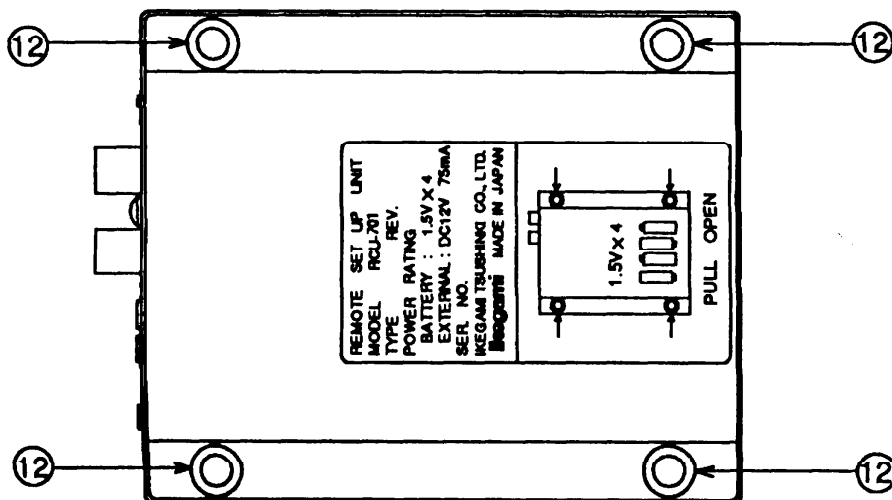
(Rear view)



(Top view)



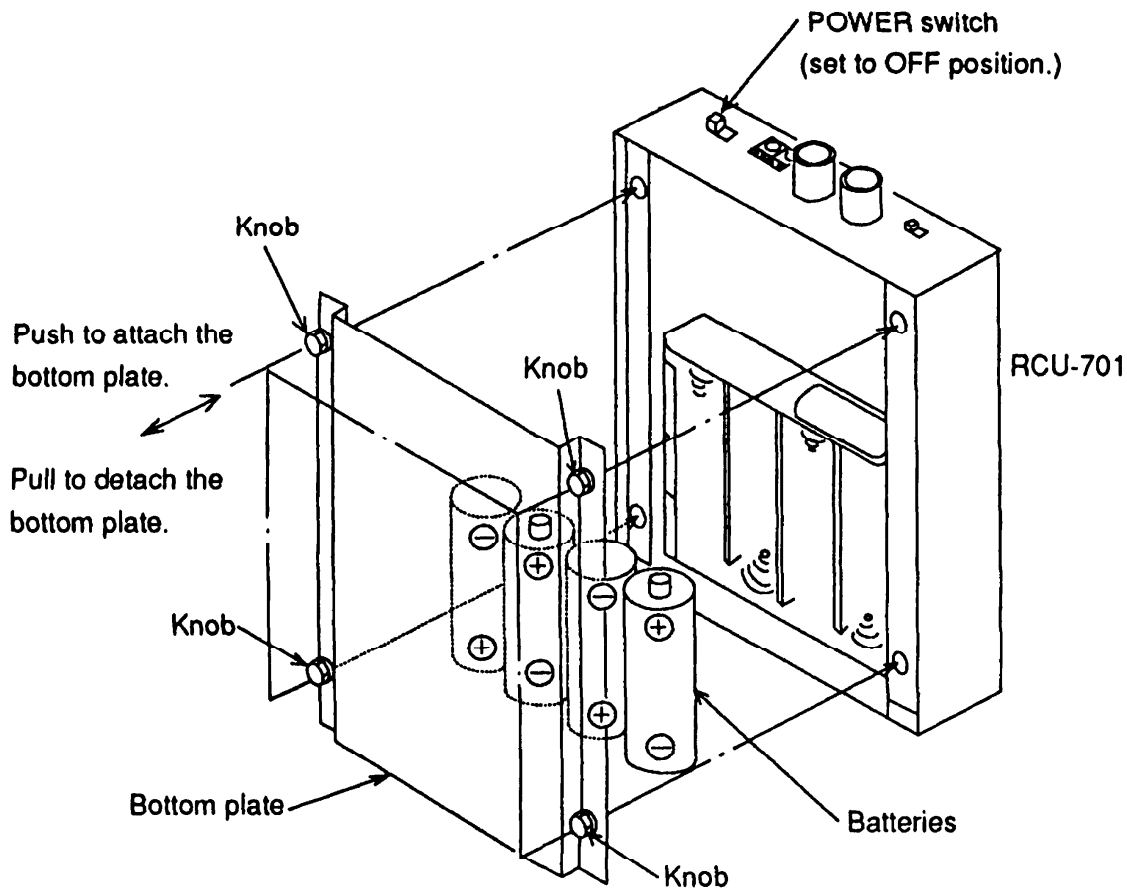
(Bottom view)



- ① **POWER switch**
Used to turn on and off the unit.
- ② **DC12V Input terminal**
Used to receive external power (DC 12V). The unit may run either on the external power or four AA batteries.
- ③ **VIDEO IN connector**
Used to accept the video output signal from the ICD-700/ICD-700P CCTV cameras.
- ④ **VIDEO OUT connector**
Used to feed out the video output. To be connected with a monitor, VCR or the like.
- ⑤ **CABLE COMP switch**
Used to compensate for the cable that runs between the RCU-701 and the camera.
- ⑥-⑩ **Setting switches**
Used to make various settings of the cameras; picture quality, synchronization, camera identification, etc. The switches are laid out the same way as with the camera setting function switches on the back of the ICD-700/ICD-700P CCTV cameras. For detailed operation, refer to the ICD-700/ICD-700P Instruction Manual.
- ⑪ **POWER Indicator**
This indicator serves three purposes; power on, communication error and battery life.
- ⑫ **Knobs**
Used to hold the bottom plate in place. For replacing the batteries, pull the four knobs and remove the bottom plate.

6. Connection

6-1. Battery placement and replacement



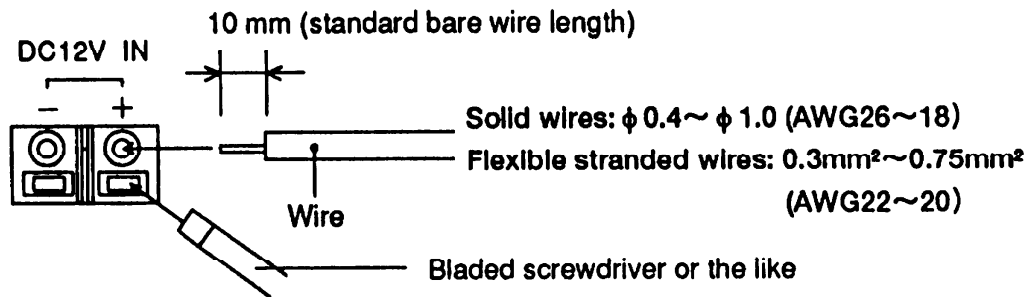
- ① Set the POWER switch to OFF position.
- ② Pull the four knobs to detach the bottom plate.
- ③ Place the four AM-3 or SUM-3 batteries. Do not confuse their polarities.
- ④ Fit the bottom plate. Push the knobs to fix the plate.


Notes:

- a) Make sure the POWER switch is at OFF position.
- b) Take out the batteries when the unit is not used for a long time.
- c) Replace all the four batteries with new ones at once.
- d) Battery life
 - AM-3 (alkaline) batteries: About 20 hours for continuous use.
 - SUM-3 (manganese) batteries (black): About 8 hours for continuous use.The battery life may slightly vary depending on the battery brands.

6-2. DC 12V input terminals (for external power supply)

- (1) Before connection and disconnection, be sure to set the POWER switch to OFF position.



- (2) Hold down the  part, as shown above, with a small bladed screwdriver or the like. Insert the wire into the connecting hole.

Do the same for pulling out the wire.

A solid wire with its conductor diameter of 0.8-1.0 mm can be connected simply by inserting it in the hole.

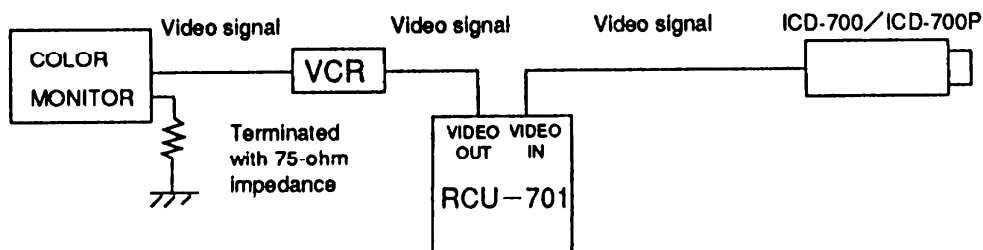
Notes:

- Be careful not to confuse the + and - terminals. The unit does not work if wrongly wired.
- Keep the DC input voltage in the 11-13 V range.
- Use the specified wires. Too thick or thin wires cannot be properly connected.

- (3) Finally pull the wires somewhat tight to see if they do not come off.

6-3. Connections with other equipment

(Typical connections)

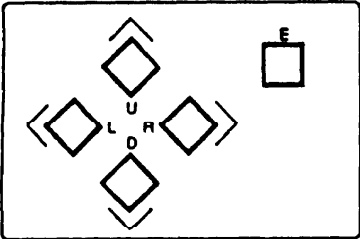


7. Operation

7-1. POWER switch and indicator

- (1) Turn on the POWER switch and make sure the POWER indicator lights up. If the indicator is blinking, check the following points.
- (2) If the indicator is blinking quickly (at intervals of about 0.25 sec.):
A communication error happens between the RCU-701 and the camera.
 - a) See if the camera's power is on.
 - b) Check the coaxial cable running between the RCU-701 and the camera (wrong connection, connector looseness, broken cable, short-circuit, etc.).
 - c) Check the setting of the CABLE COMP switch.
- (3) If the indicator is blinking slowly (at intervals of about 2 sec.):
The batteries are almost dead or the input voltage has dropped.
 - a) Running on batteries: Replace all the four batteries with new ones.
 - b) Running on external power: Check the input voltage.
- (4) If the indicator is blinking at mixed intervals:
A communication error and dead batteries happen at the same time.
Check the above steps (2) and (3).

7-2. Setting switches

	(Switch)	(Function)
	Up switch (U)	Selecting setting items (up).
	Down switch (D)	Selecting setting items (down).
	Right switch (R)	Modifying and selecting setting items (right).
	Left switch (L)	Modifying and selecting setting items (left).
	Enter switch (E)	Calling the setting mode and making settings.

The functions and operation of these switches are the same as with the setting switches that are located on the back of the camera. For detailed use, refer to the ICD-700/ICD-700P camera's Instruction Manual.

7-3. CABLE COMP switch

Set the CABLE COMP switch according to the cable length. See the table below.

Switch position Cable	S	L
3C-2V	125 m or shorter	100~250 m
5C-2V	250 m or shorter	200~500 m

8. Specifications

- (1) Applicable cameras
 ① RCU-701 "TYPE N" (for NTSC): ICD-7020, ICD-7024, ICD-7012
 ② RCU-701 "TYPE P" (for PAL): ICD-700PAC, ICD-700PDC
- (2) Camera connected: 1 unit
- (3) Input signal: Composite video signal of connected camera (multiple control signals)
- (4) Output signal: VBS, 1.0 Vp-p/75 ohms, one line
- (5) Cable extension between unit and camera: Max. 500 m (with 5C-2V cable)
- (6) Cable compensation: Provided, 2-step

Switch position Cable	S	L
3C-2V	125 m or shorter	100~250m
5C-2V	250 m or shorter	200~500m

- (7) Camera control functions
- ① Camera ID code setting
 - ② High-speed electronic shutter setting (Normal to 1/10000 sec., 9 steps)
 - ③ Light control selection (AESC, LENS)
 - ④ Back light compensation selection/setting (OFF, PRESET, MANUAL)
 - ⑤ Gain control setting (AGC or FIXED, 0/6/12 dB selectable)
 - ⑥ White balance control selection/setting (ATW, AWC, MANUAL)
 - ⑦ Sync system selection (INT, LL)
 - ⑧ Sync phase adjustment (Line lock and Genlock)
 - ⑨ Picture quality adjustment (chroma level, hue, aperture, pedestal)
 - Hue adjustment available on NTSC system cameras only
 - ⑩ Menu operation lock
- (8) Video input/output connector: BNC
- (9) External power input connector: 2 push-in terminals
- (10) Power supply: 2 supply systems
- ① Four AA batteries
 - ② External power supply (DC 12±1 V)
- (11) Battery life (continuous use): About 20 hours on AM-3 (alkaline) batteries
 About 8 hours on SUM-3 (manganese) batteries
- (12) Power consumption: About 1 W (on DC 12V external power)
- (13) Ambient operating temperature: 5-40°C
- (14) External dimensions: 110(W) x 35(H) x 130(D) mm
- (15) Weight: About 500 g (without batteries)
- (16) Accessories: Batteries (SUM-3), 4 pcs.
 Instruction Manual, 1 copy

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