

This Operation Manual covers safety, functions, installation and the correct operating procedure for the DRC-100. First, we ask you to read this Operation Manual thoroughly, then install and operate the DRC-100 as advised. In addition, for future reference, we also advise safekeeping of this manual.

Please contact the distributor or dealer from which the DRC-100 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 unit.

Guide to the Safety Symbols

The meanings 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 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 DRC-100 is designed to be used safely; however, it may lead to 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.

Do not disassemble and/or modify the DRC-100.
Do not operate the DRC-100 with wet hands.

Use only the AD901-120/230 or equivalent power adaptor for the DRC-100.

The recommended voltage is DC+12V±10%

Do not expose the DRC-100 to wetness or high moisture conditions.

The DRC-100 is designed and approved for indoor use only. The DRC-100 is not water-resistant or waterproof. If the location of the unit is outdoors or in an outdoor like environment, we recommend that you use an outdoor housing.

Protect the DRC-100 from condensation.

Keep the DRC-100 dry at all times, during storage and operation.

Should the unit not work properly, switch off the power immediately. Then, check the unit according to the "Trouble Shooting" section.

Avoid the striking of hard objects or dropping the DRC-100.

The DRC-100 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 DRC-100 with any monitor using a video/power single transmission terminal. The DRC-100 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.

Select a stable place for the DRC-100.

Do not move the DRC-100 with the cables connected.

Before moving the DRC-100, always remove the video cable and power cable from the rear of the camera first.

Avoid using the DRC-100 near any strong electromagnetic field.

After installing into main equipment, if the DRC-100 is exposed to electromagnetic waves causing the monitored image to become distorted, we recommend the unit be shielded by appropriate protective casing.

Problems and Trouble Shooting

If any of the following problems occur when using the DRC-100,

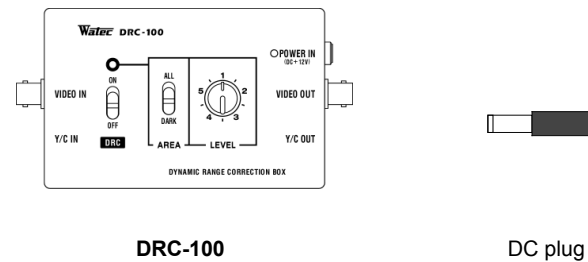
- An optimal picture cannot be obtained, after checking that all the cables and connections are correctly in place
- Smoke or any unusual odor emerges from the DRC-100.
- An object becomes embedded or a quantity of liquid seeps into the unit housing
- More than the recommended voltage or/and amperage has been applied to the DRC-100 by mistake
- Anything unusual occurring to any equipment connected to the DRC-100.

Disconnect the unit immediately according to the following procedures:

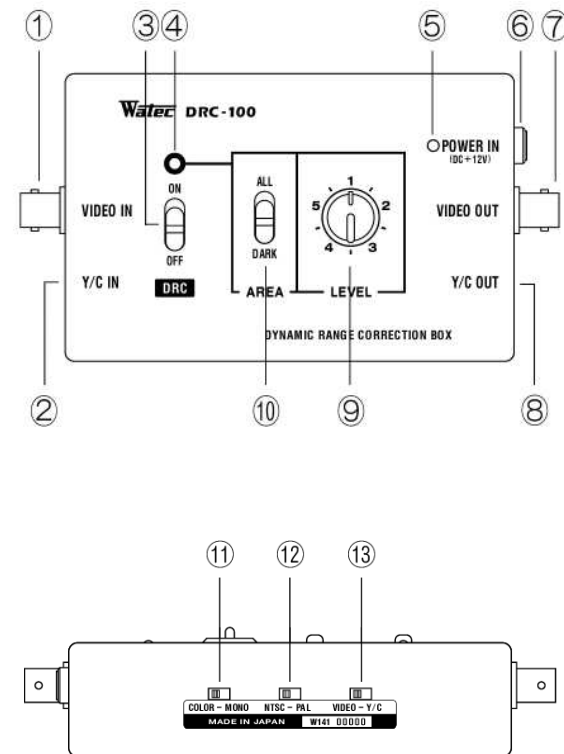
- Switch off the main power supply to the unit.
- Remove the power and video cables connected to the DRC-100.
- Contact the distributor or dealer from which the DRC-100 was purchased.

Contents

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



Description of Parts

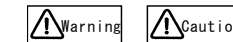


- VIDEO IN (BNC)
 - The terminal for composite video signal input
- Y/C IN
 - The terminal for Y/C signal input
- ON/OFF SWITCH
 - The switch for correction mode
- DRC INDICATOR
 - The red LED to indicate correction mode is ON.
- POWER INDICATOR
 - The red LED to indicate a power supply is present.
- POWER IN
 - The terminal designed for connection with the DC-plug of the power adaptor.
- VIDEO OUT (BNC)
 - The terminal for composite video signal output
- Y/C OUT
 - The terminal for Y/C signal output
- CORRECTION LEVEL ADJUSTMENT DIAL (10 steps)
 - The dial for setting the correction level
- CORRECTION AREA SELECTION SWITCH
 - The switch for selection of the desired correction area
- COLOR/MONOCROME MODE SELECTION SWITCH
 - The switch for selection of color mode or monochrome mode
- TELEVISION SYSTEM SELECTION SWITCH
 - The switch for selection of NTSC or PAL signals.
- INPUT SIGNAL SELECTION SWITCH
 - The switch for selection of composite or Y/C

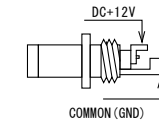
Power Supply

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 DRC-100 (See the drawing on the right below).



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 DRC-100 and power adaptor may occur and may also cause fire.



Set-up and Operation

- Ensure that the power to the DRC-100 and the peripheral equipment is turned off before making any connections.
- Connect ①VIDEO IN on the DRC-100 and camera, ⑦VIDEO OUT on the DRC-100 with the monitor, using a coaxial cable with 75Ω impedance, such as an RG-58/U or an RG-6/U. If the monitor has an S-terminal, high resolution imaging is possible by connecting with ⑧Y/C OUT.
- Select the input signal composite video signal or Y/C signal by ⑬INPUT SIGNAL SELECTION SWITCH.
- Select the color or monochrome mode by ⑪COLOR/MONOCROME MODE SELECTION SWITCH, then select NTSC or PAL by ⑫TELEVISION SYSTEM SELECTION SWITCH.
- Turn on the power to the monitor and all other allied equipment, then insert the power plug of the power adaptor into ⑥POWER IN on the side panel of the DRC-100. Confirm that the power adaptor is not connected to the power supply before insertion of the power plug into ⑥POWER IN.
- Set the correction area to ALL by ⑩CORRECTION AREA SELECTION SWITCH. If needed, change the switch setting to DARK.

Setting	Effect
ALL	ALL areas on the monitor are corrected evenly.
DARK	ALL areas are corrected, especially dark areas.

- Adjust the correction level by ⑨CORRECTION LEVEL ADJUSTMENT DIAL(10 steps) according to your environment.
 ※When gray-scale cannot be corrected, using the DRC-100. Narrow the iris on the camera to improve the image.

Options

To purchase these options, please contact the distributor or dealer from which you purchased the DRC-100.



AC Adaptor (AD901-120/230)

The recommended AC adaptor for the DRC-100 for a constant and stable power supply.

Specifications

Model	DRC-100	
Input terminal	BNC × 1, MINI DINS × 1 (Internal termination)	
Input signal	S-video/CVBS/VBS	
Output terminal	BNC × 1, MINI DINS × 1	
Output signal	S-video / CVBS/VBS	
Video system	NTSC / EIA / PAL / CCIR	
Functions	Correction	ON / OFF
	Correction area	DARK / ALL
	Correction level	10 steps
	Input select	S-video / CVBS
Power Supply	DC+12V±10%	
Power Consumption	1.5W (125mA)	
Operating Temperature	-10 – +40°C (Without condensation)	
Operating Humidity	Less than 95% RH	
Storage Temperature	-30 – +70°C (Without condensation)	
Storage Humidity	Less than 95% RH	
Size	151(W) × 80(H) × 37(D) (mm)	
Weight	Approx. 178g	

- 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, mis-operation or improper wiring of our equipment.
- If for any reason the DRC-100 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.
- This product uses technology provided by Apical Limited, UK.

Contact information

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