

Owner's Manual

Remote unit for DC-R302

EX-RT1



Thank you very much for purchasing a Fostex product.
This manual provides instructions for basic use of the unit.
Read this before using the unit for the first time.

■ WARNINGS and PRECAUTIONS

- **CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
- **ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES, APAR DE LA FENTE LARGE, FOND.
- **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
AVIS: Pour réduire le risque d'incendie ou de choc électrique, ne pas exposer cet appareil sous la pluie et l'humidité.
- **CAUTION:** Use of any controls or adjustments or performance of procedures other than those herein specified may result in hazardous radiation exposure.
- **ATTENTION:** L'utilisation de tout contrôle ou de réglages ou de procédures autres que celles indiquées ci-après peut entraîner une exposition à des radiations dangereuses.
- **WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- **AVIS:** Les changements ou modifications à cette unité n'étant pas expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur de faire fonctionner l'équipement.
- **WARNING:** Do not place the unit on top of any soft, porous, or sensitive surfaces to avoid damaging the surface. Use a protective barrier between the unit and surface to protect the surface.
AVIS: Ne placez pas l'appareil au-dessus de toutes les surfaces souples, poreux, ou sensibles pour éviter d'endommager la surface. Utilisez une barrière de protection entre l'unité et la surface à protéger la surface.
- **WARNING:** Use of this unit near fluorescent lighting may cause interference regarding use of the remote. If the unit is displaying erratic behavior move away from any fluorescent lighting, as it may be the cause.
AVIS: L'utilisation de cet appareil à proximité d'éclairage fluorescent peut provoquer des interférences sur l'utilisation de la télécommande. Si l'appareil affiche un comportement erratique s'éloigner de tout éclairage fluorescent, telle qu'elle peut être la cause.
- **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
ATTENTION: Danger d'explosion si les piles sont remplacées de façon incorrect. Remplacer les piles seulement par le même type de pile ou l'équivalent.

- **WARNING:** Do not install this equipment in a confined space such as a book case or similar unit.
- **AVIS:** Ne pas installer cet équipement dans un espace confiné comme une bibliothèque ou une unité similaire.
- **WARNING:** Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
AVIS: La prise du secteur est utilisée pour déconnecter le système. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.
- Do not mix old and new batteries. Do not mix alkaline, standard (carbonzinc), or rechargeable (ni-cad, ni-mh, etc) batteries.
No mezcle baterías viejas y nuevas. No mezcle baterías alcalinas, estándar (carbono-zinc) o recargables (ni-cad, ni-mh, etc).

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).

AVERTISSEMENT: POUR RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS ENLEVER LE COUVERCLE (NI LE DOS).

NO USERSERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. AUCUNE PIÈCE À L'INTÉRIEUR. ENTRETIEN DE PERSONNEL QUALIFIÉ.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Le symbole de l'éclair fléché dans un triangle équilatéral, est destiné à alerter l'utilisateur de la présence d'une "tension dangereuse" dans le boîtier du produit qui peuvent être des amples suffisante pour constituer un risque d'électrocution aux personnes.

- 1) Read these instructions.
Lisez ces instructions.
- 2) Keep these instructions.
Conservez ces instructions.
- 3) Heed all warnings.
Respectez tous les avertissements.
- 4) Follow all instructions.
Suivez toutes les instructions.
- 5) Do not use this apparatus near water.
Ne pas utiliser cet appareil près de l'eau.
- 6) Clean only with dry cloth.
Nettoyez uniquement avec un chiffon sec.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
Ne pas installer près de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
Ne détruissez pas la sécurité de la terre ou polarisées - fiche. Une fiche polarisée possède deux lames dont une est plus large que l'autre. Une prise de terre possède deux lames et une broche de terre. La lame large ou la troisième broche sont prévues pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
Protégez le cordon d'alimentation d'être piétiné ou pincé, particulièrement au niveau des fiches, des prises, et le point où ils sortent de l'appareil.
- 11) Only use attachments/accessories specified by the manufacturer.
N'utilisez que des accessoires spécifiés par le fabricant.



- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tipover.
Utilisez seulement avec la charrette, position, trépied, support ou table spécifiée par le fabricant, ou a vendu. avec l'appareil. Lorsqu'une charrette est utilisée, utilisez la prudence quand déplacer la combinaison de charrette / appareil pour éviter la blessure de pointe-sur.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes de temps.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsqu'un appareil a été endommagé de quelque façon que ce soit, cordon d'alimentation ou la fiche est endommagé, liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou s'il est tombé.
- 15) The apparatus shall be used in an open area.
Cet appareil doit être utilisé dans un endroit à aire ouverte.
- 16) Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.
L'appareil ne doit pas éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur l'objet.
- 17) Mains plug is used as disconnect device. It shall remain readily operable and should not be obstructed during intended use. To completely disconnect the apparatus from supply mains, the main plug of the apparatus shall be disconnected from the mains socket outlet completely.
La prise du secteur et utilisé pour déconnecter le système. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.

Introductions

This is a remote unit for starting/stopping recording of a digital single-lens reflex camera (hereinafter called camera).

By attaching the unit to DC-R302, you can control cameras which are not controllable using DC-R302 alone.

■ Features of the EX-RT1

- The unit can emit infrared light on the front of the camera and can control cameras which cannot be controlled from DC-R302 due to the camera design (supported models of camera are listed below).
- Equipped with a remote output [DSLR] terminal, you can control a camera through a wired connection (supported models of camera are listed below, and available cables are listed in "Separately required items" on page 4).
- Equipped with an external wired remote input [REMOTE] terminal, you can control a camera from an external remote controller (Panasonic DMW-RS1-compatible).
- You can attach/detach the unit to DC-R302 easily using a screwdriver.

■ Accessories

- Tetrapolar Φ2.5mm sub-mini plug cable (approx.130 mm)
- Owner's Manual (this book)

■ Supported models

Recorder	Fostex DC-R302	
Camera	Infrared light	Canon camera equipped with an infrared light receiving part, which is capable of starting/stopping recording using infrared light. Compatible models: Canon: EOS 5Dmk3, EOS 5Dmk2, EOS 7D, EOS 6D, EOS 60D, EOS X5
	Wired	Camera equipped with a wired remote terminal, which is capable of starting/stopping recording using a wired remote control. Compatible models: Canon: EOS 5Dmk3, EOS-1D X Nikon (10 pin): D800, D800E, D4 Nikon (6 pin): D7000, D600, D610 Panasonic: DMC-GH2, DMC-GH3

Caution

- In order to use the EX-RT1, the DC-R302 firmware should be V1.25 or later. Please refer to our homepage for the details of firmware update.

Each product name is a registered trademark or a trademark.

Please visit our website and check the latest information regarding supported models.

■ Separately required items

- Flathead screwdriver: Used to attach the unit to DC-R302.
- The unit/camera connecting cable: To control a camera using a wired remote control, please purchase an optional cable appropriate for your camera.

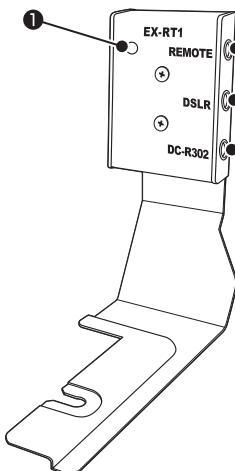
Camera		Model number of Fostex optional cable
Manufacturer	Model number	
Canon	EOS 5Dmk3, EOS-1D X, etc.	ET-RT1C
Nikon (10 pin)	D800, D800E, D4, etc.	ET-RT1N
Nikon (6 pin)	D7000, D600, D610, etc.	ET-RT1N2
Panasonic	DMC-GH2*, DMC-GH3, etc.	ET-RT1P

* As one terminal is used for both remote and microphone input, you can not use these functions at the same time.

Each product name is a registered trademark or a trademark.

Please visit our website and check the latest information regarding supported models.

Functions



① Infrared light-emitting part

Emits infrared light to the infrared light receiving part on the camera to start/stop recording.

② [REMOTE] terminal

Connect to a remote controller if necessary.

③ [DSLR] terminal

Connect to the remote terminal of the camera. This is for controlling the camera using a wired remote control.

④ [DC-R302] terminal

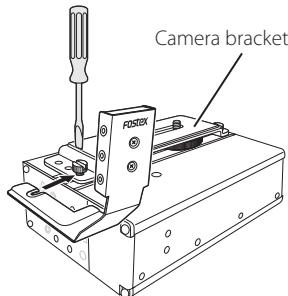
Connect to the [REMOTE] terminal of DC-R302 using the supplied cable.

Connecting DC-R302 and the camera

1 Fix the unit between the camera bracket and the screw.

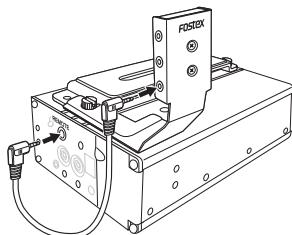
Loosen one of the screws of the camera bracket* (right one as viewed from the front of DC-R302), and insert the unit into gap between the camera bracket and the screw, then tighten the screw.

* The camera bracket is supplied with DC-R302. Please attach the bracket to DC-R302 in advance.



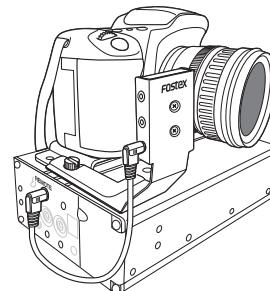
2 Connect the unit to DC-R302.

Connect the [DC-R302] terminal of the unit and the [REMOTE] terminal of DC-R302 using the supplied cable.



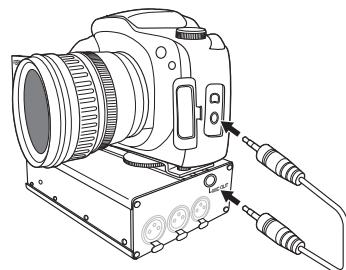
3 Fix the camera to DC-R302.

Align the screw thread of the camera bracket with the tripod socket hole of the camera, and turn the knob on the camera bracket to the right to fix.



4 Connect the camera and DC-R302.

Connect the microphone input terminal of the camera and the [MIC OUT] terminal of DC-R302 using a commercially available stereo mini cable.



* For Panasonic DMC-GH2, one terminal is used for both remote and microphone input, so you can not use these functions at the same time.

Settings

■ Infrared light remote control

The following are settings for starting/stopping recording of a camera using infrared light. They apply to Canon cameras which are controllable using infrared light remote control. (⇒page 3：“Supported models”)

1 Set the value of REMOTE to “IR (Canon)” on the menu screen of DC-R302.

M> REMOTE
> IR (Canon)

2 Set up the camera for remote control.

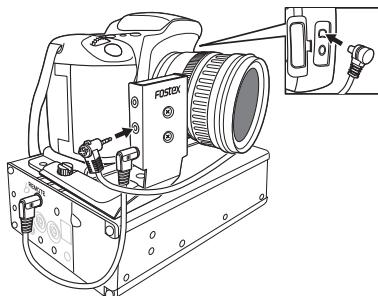
Set up the camera to be able to be operated using infrared light remote control. Please refer to the operation manual of the camera for further information.

■ Wired remote control

The following are settings for starting/stopping recording of the camera through a wired connection. They apply to cameras which are controllable using a wired remote control. (⇒page 3：“Supported models”) Please prepare a unit/camera connecting cable (sold separately). (⇒page 4：“Separately required items”)

1 Connect the unit and the camera.

Connect the [DSLR] terminal of the unit and remote terminal of the camera using the unit/camera connecting cable.



2 Set the value of REMOTE to “EX-RT1” on the menu screen of DC-R302.

M> REMOTE
> EX-RT1

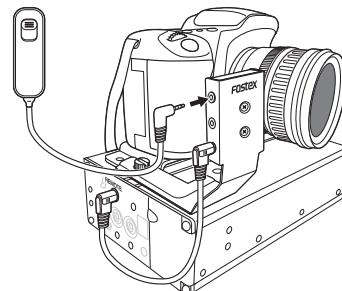
3 Set up the camera for remote control.

Set up the camera to be able to be operated using a wired remote control. Please refer to the operation manual of the camera for further information.

Control using a remote controller

You can start/stop the unit using an external remote controller (Panasonic DMW-RS1-compatible).

- 1 **Connect and set up the unit/DC-R302/camera (⇒page 5, page 6).**
- 2 **Connect the remote controller to the [REMOTE] terminal of the unit.**



Troubleshooting

Problem	Solutions
The camera does not start/stop even though DC-R302 is started/stopped.	<ul style="list-style-type: none">Check the model of the camera and whether the camera is controllable using a wired connection or infrared light (⇒page 3).Check whether the camera is turned on.Check the connection of the camera, the unit, and DC-R302 (⇒page 5, page 6).If you are controlling the camera using infrared light, check whether the infrared light-emitting part of the unit is aligned with the infrared light receiving part of the camera.

Specifications

[REMOTE] terminal	Φ2.5 mm tetrapolar sub-mini jack
[DSLR] terminal	Φ2.5 mm tetrapolar sub-mini jack
[DC-R302] terminal	Φ2.5 mm tetrapolar sub-mini jack
External dimensions (mm)	31.2 (W) × 79.5 (H) × 87.5 (D)
Weight	Approx. 60 g

Declaration of EC Directive

This equipment is compatible with the EMC Directive (2004/108/EC) - Directive on approximation of member nation's ordinance concerning the electromagnetic compatibility and with the Low Voltage Directive (73/23/EEC) - Directive on approximation of member nation's ordinance concerning electric equipment designed to be used within the specified voltage range.

The Affect of Immunity on This Equipment

The affect of the European Specification EN61000-6-1 (coexistence of electromagnetic waves - common immunity specification) on this equipment are as shown below.

In the electrical fast transient/burst requirements, surge, conducted disturbances by radio-frequency fields, power frequency magnetic field, radiate electromagnetic field requirements and static electricity discharging environment, this could be affected by generation of noise in some cases.

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* Including non-EU countries (as of Jan. 2014)

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