ORLIT

Rovelight RT 400 TTL
MONOLIGHT

Thank You for Purchasing the ORLIT Rovelight RT-400

Please read all the information contained in this user's guide carefully, keep it in a safe place and pass it to other users if necessary.
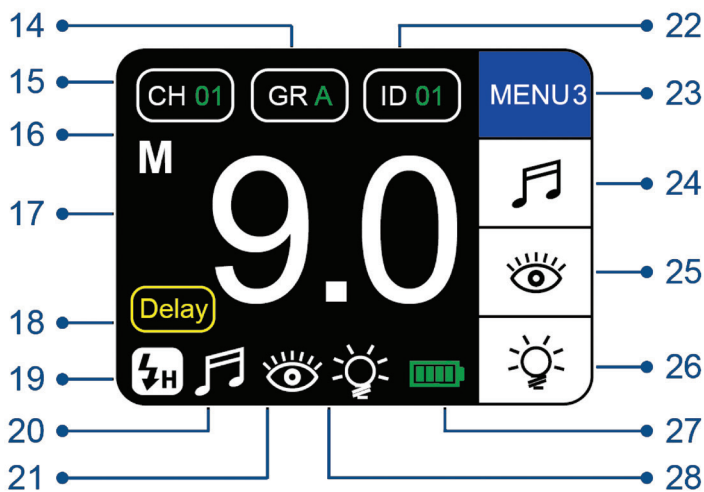
- Please do not put the RT-400 in an environment where flammable liquid is likely to come into contact with this product.
- Please do not put the RT-400 in an environment where strong electromagnetic field or dust is likely to come into contact with this product.
- Please do not put the RT-400 in moisture place where temperature will change rapidly to avoid formation of condensation.
- Please do not touch the flashtube or modeling lamp with bare hand.
- Please do not use any power supply other than the included one to charge the battery.
- Please do not use the RT-400 while the battery is connected to the charger.
- Please do not plug the charger in until after you have connected it to the battery.
- Please do not insert metal parts into any lighting equipment.
- Please dry your hands before handling the equipment.
- Please do not attempt repairs to your lighting equipment personally. If a problem arises, contact the store from which you purchased the light.
- Please ensure that you have firmly tightened the handle on the umbrella bracket before using it to support the unit.
- Please do not fire the strobe at very close distance to subjects, people or pets, as the strobe releases intense heat and can cause damage and serious injury.

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Rovelight RT400

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CH 01 GR A ID 01 MENU3

M
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1. Glass flash tube protector
2. Accessories release button
3. Light stand lock
4. Battery release button
5. LED indicator button
6. Battery LED indicator
7. Umbrella socket

8. Light head tilt lock
9. Function set button
10. Test button
11. Power output dial
12. Select button
13. Power switch
    / Modeling lamp button

14. Group: A/B/C/D/E/F/G/H/I/J

15. Channel: 00-15

16. Flash Mode M/TTL

17. Power value 1.0-9.0/+3.0

18. Delay flash indicator

19. Sync mode
    Normal/HSS/Freeze
20. Audio Signal
21. Optical Slave
22. Canon RT radio "ID" numbers
    (only displayed under Canon
    RT radio mode) 00-99/AU

23. Menu--Menu 1--Menu 5
24. Function icon--Mode(Menu1)/CH(Menu2)/Audio Beep (Menu3) / EasyCap(Menu4)/ "Z" Flash Master mode (Menu5)
25. Function icon--SYNC(Menul)/GR(Menu2)/ (Menu3) EasyCap: All 2-6(Menu4)/Delay(Menu5)
26. Function icon--TTL-C, TTL-N, TTL-S, TTL-F, CH/GR, TRS-V, OFF (Menul) ID(Menu2)/Modeling Lamp: PRO, 1-9, OFF (Menu3) / EasyCap: No, I —6 (Menu4)/Delay: 00.00-30.00(Menu5)
27. Battery-100% / 75% / 50% / 25%
28. Modeling lamp

Battery groove Battery guidepost

1. Battery installation

Install the battery by putting the battery guidepost into the battery groove and slide the battery down to lock, press the battery release button to secure.

2. Battery release :

Press battery release button to remove the battery along the groove.

3. Battery charge :

Charge time is about 3 hours. When fully charged, the light changes from red to green.

MENU1

MODE	–– Switch between M/ TTL mode:M (1.0-9.0) / TTL(+3.0)
SYNC	–– Switch between flash sync mode

Normal mode: with constant color temperature of 5500°K+/- 150°K
HSS mode: shutter speed up to 1/8000s
FREEZE mode: up to 19000s flash duration

$((\!\cdot\!))_{\text{TTL-C}}$ –– Wireless Remote Control

TTL-C: Canon remote control (TR-Q6C/ TR-611)
TTL-N: Nikon remote control (TR-Q6N/ TR-612)
TTL-S: Sony remote control (TR-Q6S)
TTL-F: Fujifilm remote control (TR-Q6F)
CH/GR: Orlit CH&GR remote control (TR-A6II C/ TR-A6II N /TR-V6)
TRS-V: Orlit TRS-V remote control (TRS-V)

MENU2

CH ––Channelcan be chosen between 00-15
GR--Group can be chosen between A/B/C/D/E/F/G/H/I/J
ID–– CanonRT radio "ID"numbers can be set between 00-99/AU. Flash and Canon speedlites can be synchronized when CH&ID numbers are the same.

MENU3

🎵	Beep: Turn on / Turn off
👁	Optical slave: Turn on / Turn off
🔆	Modelling lamp: Proportion PRO / Independent 1.0-9.0

MENU4

EasyCap   EasyCap: Open–– | All 2   No 1 | Dark icon
              Close––   Light icon

All 1   ––Total groups of flashes under EasyCap mode, from "All 2"— All 6"

No. 1   ––Numbers of flash heads under EasyCap mode, from "No.l"—"No.6"

MENU5

↯   Flash Master mode: when the icon turns red, trigger can only synchronize the flash, function setting should be operated on the flash panel.

Delay   –– Delay: Open–– | All 2   No 1 | Dark icon
          Close––   Light icon

00.00   Time set, delay from 00.00 to 30.00 seconds

Using the Rovelight RT400 TTL

The Rovelight RT-400 can be operated in two modes to satisfy photographers' different demands.

Power on/off
Switch on: Press power switch button [12] for 1.5 second until LCD screen lights up and enters the operation interface.
Switch off: Press power switch button [12] for 1.5 second until LCD screen turns all black.

TTL Mode
1. Press Function button [8] to switch to MENU1, and press Funtion button [8] to switch wireless channel to TTL-C/ TTL-N/ TTL-S/ TTL-F.

2. Press Function button and switch to TTL mode.

3. Press Function button SYNC to select Sync mode, Normal mode or high-speed sync mode es .

4. Press Function button [8] and switch to MENU2 to set up CH and GR. CH and GR numbers should be the same with the remote, like the TR-Q6 trigger.

5. Press Function button [8] and switch to MENU3.

6. Press Function button to turn on/off the BEEP.

7. Short press Modelling Lamp button to turn on/off the modelling lamp.

8. Press Function button to choose modeling lamp mode between proportion mode PRO and independent mode 4:1.0-9.0

9. EV adjustment range: -3.0EV—+3.0EV

1/10 f-stop increment: turn Power output dial [10] directly to adjust the power.
1 f-stop increment: short press Power output dial and the power value becomes green, then turn the dial to adjust the power.

Using the Rovelight RT400 TTL

M Mode

1. Press Function button [8] to switch to MENU 1 and press Funtion button to switch wireless channel to TTL-C/ TTL-N/ TTL-S/ TTL-F/ CH/GR
2. Press Function button and switch to M mode.
3. Press Function button SYNC] to select Sync mode, Normal mode, high-speed sync mode cm or freeze mode .
4. Press Function button [8] and switch to MENU2 to set up CH and GR. CH and GR numbers should be the same as the Orlit trigger.
5. Press Function button [8] and switch to MENU3.
6. Press Function button [8] to turn on/off the BEEP
7. Short press Modelling Lamp button [12] to turn on/off the modelling lamp.
8. Press Function button 9" to choose modelling lamp mode between proportion mode PRO and independent mode 1.0 — 9.0
9. Power output adjustment range:1.0-9.0

   1/10 f-stop increment: turn Power output dial [10] directly to adjust the power.
   1 f-stop increment: short press Power output konb and power value becomes green, then turn the dial to adjust the power.

Included Items

Note

1. Freeze mode

Freeze mode can be used only in M mode. Freeze mode is a special feature that shortens the flash duration.

2. Wireless remote control

When TTL-C/TTL-N/TTL-S/TTL-F is selected in wireless remote control on screen, the RT-400 is set to be triggered or controlled ONLY by an Orlit TTL trigger. When CH/GR is selected in wireless remote control on screen, RT-400 is set to be triggered or controlled by a TR-V6 by Orlit. In this mode, GR does not appear on the RT-400. Set the TR-V6 in the same channel on the RT-400. When TRS-V is selected in wireless remote control on screen, RT-400 is set to be triggered or controlled by TRS-V offered by Orlit. Is this mode, GR does not appear on the RT-400. Set TRS-V in the same channel on the RT-400. When "SL" is displayed on the screen check the mode setting on your remote transmitter, especially on the Orlit RT600 C. The RT-400 does not support the "ExtA" mode and will not fire when the speedlight transmits. Use modes "M" or "TTL" to link.

3. Overheat protection

When the system overheats, overheat protection mode automatically turns on. The screen displays OH, which means the built-in over-temperature protection is activated. In the event of overheating, the system will stop working. When the temperature is back to an acceptable level, the RT-400 will start to work again.

4. Continuous Capture

When the camera changes into continuous capture mode, the power output range of the RT-400 is from 1.0-4.0. How ever the RT-400 itself does not have continuous capture mode, and there is not an icon for continuous capture mode on RT-400.

5. Flash master mode

When the flash enters into flash master mode, (icon turns red). All functions and settings should be set on the RT-400 panel. Remote transmitter synchronizes to the flash with out any other functions.

Battery maintenance

For optional performance, the battery should be maintained by following instruction. Only use the Orlit battery charger 16.8V 3.0A
1. Battery capacity check.
   Press CHECK button to check current battery capacity.
   4 sections: 100-75%
   3 sections: 75-50%
   2 sections: 50-25%
   1 sections: 25-5%
   0 sections: less than 5%

2. Lithium battery care and maintenance
   Lithium battery (DC 14.8V 6000mAh), the new battery achieves optimal performance only after two or three complete charge and discharge cycles. The Li-ion battery can be charged and discharged 300 times or so, with the increase of the frequency of use, the battery capacity decreases resulting in failure. When outdoor flash usage time shorter than normal, kindly replace with a new battery. Batteries most be Orlit original battery.

   Environment temperature effects the useful life and recharge of the battery. It will reduce battery capacity and shorten useful life if the battery is stored in hot of in freezing environment. The optimal temperature range is 59F/15C — 77F/25C . Both extreme heat and cold will cause battery shut down. When environment temperature is lower than 0 C, battery capability will be limited even at full power.

   Over discharge will effect battery capability, even destroy the battery. RT-400 monolight offers battery capacity display and low voltage instruction. When battery capacity instruce LCD display, it must be recharged. If keep working, battery will be damaged.

To avoid battery failure, please wait 10 minutes to cool the battery after use. Charge the battery soon and remove it from the charger, and store it in a dry place.
Turn off power switch or disconnect the charger before disconnecting the battery. When the flash is left unused for long time, preserve the battery by fully charging the Lithium battery once every 3 months.

Technical Specification

Product name	Orlit Rovelight RT 400 TTL
Product code	ORLFRL400RTB
Guide number	GN 216ft / 66m @ ISO 100 Orlit 55º reflector
Output in Joules	400ws
Voltage stabilization	1%
Flash power variation	Manual: 1.0-9.0 HSS: 5.0-9.0 TTL: -3.0 to +3.0 EV 1 f-stop / 0.1 f-stop increments
Recycling time	0.05-1.6s
Flash mode	M / TTL mode
SYNC mode	Normal / HSS / Freeze
Flash duration (t=0.5)	NOR: 1/800-1/8000s Freeze: 1/800-1/19000s
Color temperature	NOR/TTL/HSS: 5500°K +/-150°K Freeze: 5500°K +/-800°K
Modeling lamp	15W LED (Proportion / Independent / Off)
Wireless receiver	Canon RT, Nikon, Sony, Fujifilm
Channel / Group / ID	CH: 00-15 / GR: A -J, ID: 00-99, AU
Optical slave	Built-in infra-red sensor
Recommended trigger	TR-Q6C/N/S/F, TR-V6, TR-A6II, TR-611, TR-612
SYNC socket	3.5mm
SYNC voltage	DC 5V
Battery	Lithium DC 16.8V 4400mAh
Thermal safety	Overheat protection system
USB firmware update support	Yes
Weight	5lb. / 2.3kg (with battery)
Dimensions	11.0 (L) x 4.9(W) x 7.5(H)in 280(L) x 125(W) x 190 (H)mm
Auto power off	After 60 minutes / Sleep activated after 30 minutes
Battery capacity	Up to 400 times at full power
Battery life	300 charge cycle (to 80% capacity left)
Operating room temperature	0-40º C / 32-104º F

Orlit products develop continuously,technical data and product information are subject to change without notice

More ORLIT Products

TTL Flash Extraordinaire with Rovelight RT

1. Rovelight RT 600AC
2. TR-V6 2.4GHz Wireless Transmitter
3. Rovelight RT 800AC
4. RT600-C Speedlite
5. Rovelight RT 610

6. RoveLight RT 601
7. Rover RT
8. ST-RT Wireless Transmitter
9. TR-Q6 RT Studio Flash Trigger

The Orlit RT Radio – Important Information

The Orlit RT Radio system has two radio modes: RT and RF.

Let's understand why:

Canon created the 600EX-RT flash, which uses its RT radio system. The RT radio system was designed for controlling Canon SPEEDLIGHTS only.

Orlit expanded the RT line with its own RT TTL monolight units. However, these units offer functions not available on any speedlights, for example, 1/10 of a stop adjustment, and modeling lamps. The Orlit units, like the Rover RT, the RT-610, 601 and RT-400, all feature the RT radio system mode, to allow integration with the Canon RT standard for speedlites. For maximum feature function beyond those designed for Canon Speedlites, Orlit included RF mode, which allows these controls with Orlit transmitters and strobes ONLY.

Canon is the only camera manufacturer that use the Canon RT system. Nikon, Sony and Fujifilm versions of the Orlit remotes, like the TR-Q6, communicate only by RF mode, using the Orlit 2.4GHz frequency. By default, the Orlit TR-Q6-C for Canon starts in RF mode, providing a maximum function with Orlit monolights. However, FOR INTEGRATING TOTALLY WITH SPEEDLIGHTS, FROM CANON OR ORLIT, THE TRANSMITTER MUST BE IN RT MODE.

The easiest way to determine if the remote TR-Q6 transmitter is in RF or RT mode is to be aware that RF mode does not use the feature of unit IDs. If the transmitter is displaying ONLY channels on the bottom right, it is in RF mode. To switch to RT mode for integrating with speedlights, press the power button on the TR-Q6 briefly. The channel display cycles between the channel value and the ID value. You are now in RT mode. Use the CH button to set both the channel and ID. Remember that the channel and ID must be the same on the transmitter and all units. For maximum stability, use ID 0000 (00) or 0001 (01) only. The TR-Q6 remembers the RF or RT mode selection.

Once the unit has "linked" to the remote lights using Canon's RT protocols, the unit displays a Radio Tower icon on the LCD panel of the slaved Orlit product. The icon functions like the green LINK indicator on Canon flashes.

Two Year ORLIT Limited Warranty

Orlit warrants to the original purchaser that your Orlit product shall be free from defects in material and workmanship for the period of two (2) years from the date of purchase (or delivery as may be required in certain jurisdictions), or thirty (30) days after replacement, whichever comes later.

Orlit's entire liability and your exclusive remedy for any breach of warranty shall be, at Orlit's option, to repair or replace the hardware, provided that the hardware is returned to the point of purchase or such other place as Orlit may direct with a copy of the sales receipt or dated itemized receipt. Orlit may, at its option, replace your product, offer to provide a functionally equivalent product, or repair any product with new, refurbished or used parts as long as such parts are in compliance with the product's technical specifications. Any replacement hardware product will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer, or for any additional period of time that may be applicable in your jurisdiction. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function. This warranty does not cover problems or damage resulting from accident, abuse, misapplication, or any unauthorized repair, modification or disassembly, improper operation or maintenance, normal wear and tear, or usage not in accordance with product instructions or connection to improper voltage supply, use of consumables, such as replacement batteries, not supplied by Orlit, except where such restriction is prohibited by applicable law.

Except where prohibited by applicable law, this warranty is nontransferable and is limited to the original purchaser and the country in which the product was purchased. This warranty gives you specific legal rights, and you may also have other rights, including a longer warranty duration that may vary under local laws. To start a warranty claim contact the Orlit Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Orlit, along with the RMA number and proof of purchase.

Technical Support

Question about our product line? Need Product Support?
We are proud of our products and celebrate our customers.
We are with you, from product selection to everyday use.
Be secure with your purchase and reach us as you need.

Email us: brands@adorama.com
Call: 212-647-9300
Address: Adorama Brands, 42 West 18th Street, New York, NY 10011

**You can always contact us at BRANDS@ADORAMA.COM for personal technical support.
Our web site contains a wide range of Support and FAQ pages with valuable technical assistance.**

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ORLFRL400RTB

For assistance, you can always email Brands@Adorama.com