ORLIT

Rovelight RT 610

TTL Monolight with On Board Power
Bowens Mount

Thank You for Choosing ORLIT!
TTL Flash Extraordinaire.

The new ORLIT ROVELIGHT RT 610 TTL WIRELESS MONOLIGHT represents a world class breakthrough in wireless technologies! The first Canon RT/ETTL and Nikon CLS/iTTL radio compatible Monolight. The ORLIT Rovelight RT is a 600ws fully cordless strobe, which is compatible with RT radio system and ORLIT TR series transmitters for remote power control.

The incredible amount of raw energy and innovation in these compact and lightweight units make the RT System the first choice of Canon professional photographers, and the ORLIT Rovelight 610 RT is the next evolution of the RT class of strobes. With a focus on portable lighting, the RT compatible collection hopes to free your camera to go out and... ROVE.

Please read all the information contained in this user's guide carefully, keep it in a safe place and share it with other users.

Let us know how you are enjoying this new monolight and share you successes with us.

If any questions or concerns arise as you use this flash, please write to brands@adorama.com or call 212-647-9300 for personal technical support.

You can shop all of our brands at www.adorama.com/ourbrands

Features Include

- 221GN superb power in the most compact package, eliminating the need for cords and AC powered strobes
- Incredible long-life battery using Lithium Ion Technology, with a replaceable 14.8V/6000mAh battery module
- Built in 2.4Ghz ORLIT RT radio system for full Canon RT built-in remote control
- Canon ETTL & Nikon iTTL Radio Slave Modes
- Backward compatible with the Flashpoint Rovelight radio control system for manual output control and triggering
- Industry benchmark range and interference avoidance with the new ORLIT RT Radio System
- Links wirelessly with new ORLIT RT-600 Canon TTL or 600 Nikon TTL Speedlights
- Power adjusts from full power to 1/256 in 1 and 1/10 stop increments
- EV TTL Override Adjustment from -3.0 to +3.0EV
- 20W LED Modeling Light (100W Tungsten Equivalent, 3200K) with 3 modeling lamp intensity settings
- Recycle audio signals
- IGBT firing allows for shorter flash durations and HSS to 1/8000s
- HSS Mode – Down to 1/32 Power
- Short Flash Duration (Freeze Mode) – 1/800s – 1/19000s
- Wireless Range – 980ft/300m plus with ORLIT TR-611C / TR-612N as Transmitter
- 5 Groups – A / B / C / D / E / F
- 16 Channels
- Auto Thermostatically Controlled Fan Cooled with Overheat Protection
- Continuous Capture remote mode sense

- Can also be triggered optically, or with a standard 3.5mm sync cord
- Tilt head with integrated umbrella mount
- Vents and automatic fans for cooler, quieter running lights
- Many accessories available for the standard Bowens Mount
- Rear dot-matrix LCD panel with clear and convenient operation
- Stable color temperature at 5500°±150°K over the normal power range
- Extensive Custom Functions
- Auto Memory Recall
- Recycle Audio Prompt
- Mini USB Port for Firmware Upgrades
- 2 Year Warranty

Watch for the new ORLIT Smartphone APP that seamlessly integrates the latest in wireless command into your studio life. A rich array of screens give touch control to the myriad of ORLIT features without going near your set, right from your favorite Smartphone. Available for Android in Android Play and Apple in iTunes App Store.

Plus, the studio friendly TR-Q6 wireless remote blends the harmony of beauty and innovative function into a device that seems to anticipate the needs of phone connoisseurs. Your studio-at your fingertips!

For Your Safety

Always keep this product dry. Do not use in rain or in damp conditions. Please dry your hands before handling the equipment, as wet hand are dangerous to both the equipment and to you.

This product contains high-voltage electronic parts. Touching the high-voltage circuit inside it may result in electric shock. Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.

Stop using this product if it breaks open due to internal shifting, falling or strong impact. STRONG electric shock may occur if you touch the components inside.

Do not use the strobe unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstances, these materials may be sensitive to the strong light emitting from this strobe unit and fire may result.

Do not leave or store the strobe unit if the ambient temperature reads over 122°F/50°C (e.g. in automobile in the sun). Otherwise the electronic parts may be damaged.

Do not use any power supply other than the included one to charge the battery. Please do not use the flash while the battery is connected to the charger.

Do not insert metal parts into any lighting equipment, except the special umbrella channel. Please ensure that you have firmly tightened the handle on the umbrella bracket before using it to support the unit.

Do not touch the electrical contacts on the strobe or battery or contact them with any conductive materials.

This strobe has an over-heat protection circuit, rapid continuous firing will cause the strobe to slow operation and trigger a "cool down" period. After this period, the strobe will resume normal operation. You may also reboot the strobe by cycling the power off and then on.

The strobe has a locking pin to ensure secure operation. To avoid damage, slide the release before removing any reflectors or accessories.
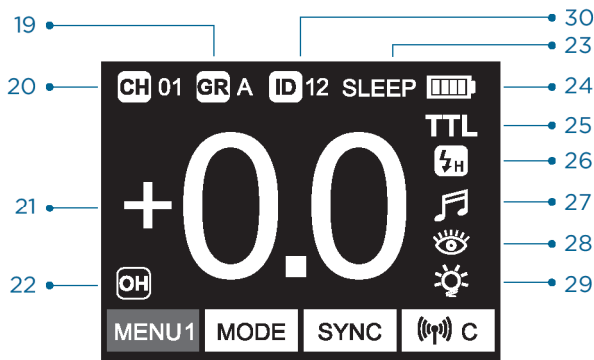
In case of abnormal function, sparks, excessive heat, flames or smoke, immediately power off the unit and disconnect the battery if possible. Have it checked by an authorized technician.

Battery Precautions

- Do not short circuit.
- Do not expose to rain or immerse in water. This battery is not water proof. Keep out of reach of children.
- Do not keep on charger for more than 24 hrs.
- Store in dry, cool, ventilated places.
- Do not put near or into fire.
- Dead batteries should be disposed according to local regulations.
- If the battery had not been used for over 3 months, please recharge.

1. Power supply battery module
2. Infra red sensor Sync socket
3. Light tilt lock
4. Glass protector
5. Umbrella socket
6. Light stand mount lock
7. Flash tube
8. LED modeling lamp
9. Test flash button
10. Power output knob / OK
11/12/13/14. Function buttons
15. Modeling lamp / Power switch
16. Battery
17. Battery release button
18. Battery charger

19. GR (GROUP) - A/B/C/D/E/F
20. CH (CHANNEL) - 00~15
21. Power output - TTL: ±3.0 / M: 1.0~9.0 / HSS: 4.0~9.0
22. OH: Overheat protection
23. Sleep Mode
24. Battery Level Indicator
25. M /TTL
26. Normal NOR / HSS ⚡H / Freeze FRE
27. BEEP
28. OPTICAL SLAVE CELL
29. Modeling lamp
30. ID Value (for Canon)

Battery Groove

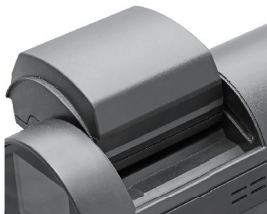
1. Battery Installation

Install the battery by sliding the battery guidepost along the battery groove to the end and press the battery release button to engage lock.

Battery Guidepost

2. Battery Release

Press battery release button to remove the battery.

3. Battery Charge

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

Battery Charger Plug-in

Install the Glass Protector

1. Align the glass protector to the inner side of metal springs.

2. Push one side of the glass protector towards the metal spring.

3. Push the other side of the glass protector.

LCD Panel Menus

Settings and Options

MENU1	MODE	SYNC	((•)) C

MODE - Switch between M & TTL

SYNC - Switch between flash modes

NOR Normal flash

4H High Speed Sync, shutter speed up to 1/8000s (Canon/Nikon camera)

FRE Max 1/19000s, sync with shutter speed. (No FREEZE mode in TTL mode)

((•)) - WIRELESS REMOTE CONTROL

((•)) **C**   Canon TTL (ORLIT or Canon trigger)

((•)) **N**   Nikon TTL (ORLIT trigger)

((•)) **A6**   TR-A6/TRS-V remote control

((•)) **TRS**   TRS/Flashpoint Rovelight remote control

MENU2	CH	GR	

CH - Channel can be chosen from 00 to 15

GR - Group can be chosen between A/B/C/D/E/F

    *Please note that GR setting is not available through TR-A6, TRS-V or TRS remote control.

MENU3	♬	👁	💡

♬ **- Recycle audio signal:** Turn on / Turn off

👁 **- OPTICAL SLAVE CELL:** Turn on / Turn off

💡 **- Modeling lamp:** Proportion 💡 PRO / Independent 💡 1.0~9.0

ORLIT Rovelight RT-610 Flash Modes

The RT610 functions as a RT radio receiver monolight for Canon and Nikon.

The RT-610 can operate in two modes to satisfy photographers' different demands and preferences.

Power on/off

Switch on: press and hold POWER button (15) for 1.5 second until LCD screen lights up and enters the operation interface.

Switch off: press and hold POWER button (15) for 1.5 second until LCD screen becomes black.

TTL Mode

1. Press Function button (11) and switch to MENU1, and press Function button (14) to switch wireless channel to ((•)) C or ((•)) N.

2. Press Function button (12) and switch to TTL mode.

3. Press Function button (13) to choose Sync mode, Normal mode **NOR** or high-speed sync mode ⚡H

4. Press Function button (11) and switch to MENU 2 to set up CH and GR and ID for Canon. It needs to be the same as the trigger of the remote TR 611C or TR 612N transceivers.

5. Press Function button (11) and switch to MENU3.

6. Press Function button (12) to switch on or off BEEP 🎵

7. Short press Modeling Lamp button (15) to switch on or off modeling lamp.

8. Press Function button (14) to choose modeling lamp mode between proportion mode ☀ PRO and independent mode ☀ 1.0-9.0

9. EV adjustment range: -3.0EV ~ +3.0EV

Power Output Knob Options

1/10 f-stop increment: turn Power output knob (10) directly to change the power.

1 f-stop increment: press Power output knob (10) and the power number becomes green, and turn the knob to change the power.

M Mode

1. Press Function button (11) and switch to MENU1, and press Function button (14) to switch wireless channel to 📶 C or 📶 N

2. Press Function button (12) and switch to M mode.

3. Press Function button (13) to choose from, Normal mode NOR , high-speed sync mode ⚡H or freeze mode FRE

4. Press Function button (11) and switch to MENU 2 to set up CH and GR. It needs to be the same as the transmitter setting.

5. Press Function button (11) and switch to MENU3.

6. Press Function button (12) to switch on or off BEEP 🎵

7. Short press Modeling Lamp button (15) to switch on or off modeling lamp.

8. Press Function button (14) to choose modeling lamp mode between ration mode ☀ PRO and independent mode ☀ 1.0~9.0

9. Power output adjustment range: 1.0~9.0

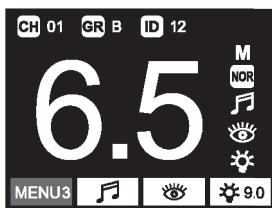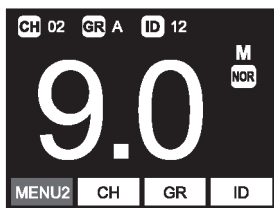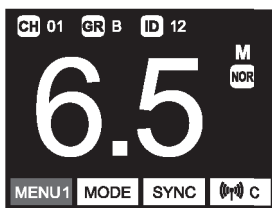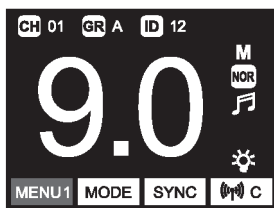1/10 f-stop increment: turn Power output knob (10) directly to change the power.

1 f-stop increment: press Power output knob (10) and the power number becomes green, and turn the knob to change the power.

CH 01	GR A	ID 12

9.0 M NOR 🎵 ☀

| MENU1 | MODE | SYNC | 📶 C |

CH 01	GR B	ID 12

6.5 M NOR

| MENU1 | MODE | SYNC | 📶 C |

CH 02	GR A	ID 12

9.0 M NOR

| MENU2 | CH | GR | ID |

CH 01	GR B	ID 12

6.5 M NOR 🎵 👁 ☀

| MENU3 | 🎵 | 👁 | ☀ 9.0 |

Important ORLIT Rovelight RT-610 Feature Notes

1. Freeze Mode

Freeze mode reduces the flash duration to a mere 1/19000s and can only be used in M mode.

2. Wireless Remote Control

When (((•))) C or (((•))) N is selected in wireless remote control on screen, the RT-610 can be remotely controlled by the ORLIT TR-611C or 612N. When C is selected in wireless remote control on screen, the RT-610 can be remotely controlled by the ORLIT RT600C Speedlites or a Canon EX600-RT.

When (((•))) A6 is selected in wireless remote control on screen, the RT-610 can be controlled by TR-A6 or TRS-V transmitters. In this mode, GR does not appear on the RT-610. Set TRS-V in the same channel on the RT-610.

When (((•))) TRS is selected in wireless remote control on screen, the RT-610 can be remotely controlled, in Manual mode, by a TRS transmitter. In this mode, GR does not appear on the LCD screen. Set TRS in the same channel on the RT-610.

3. Overheat Protection

In the event or thermal overheating, the RT-610 will go into overheat protection mode, display an OH symbol on the LCD and shut down. When the RT-610 cools down, the unit will come back on.

4. Continuous Capture

When the camera is set to continuous capture mode, the power output range of the RT-610 is from 1.0 to 3.0. However, the RT-610 itself does not have continuous capture mode, and there is no confirmation of continuous capture mode on the RT-610.
The RT-610 will sync exactly with the camera shutter in continuous capture.

4m Sync cable

Battery & battery charger

RT-610 monolight   RT-610 case

Battery Maintenance

For optional performance, the battery should be maintained by following instruction. Only use the supplied ORLIT battery charger 16.8V 4.0A

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 section: 25-5%
0 sections: less than 5%

2. Lithium Battery Care and Maintenance

Lithium battery (DC 14.8V 6000mAh), the new battery reaches optimal performance only after two or three complete charge and discharge cycles. Li-ion battery can be charged and discharged 300 times or so, with the increase of the frequency of use, the battery capacity decreases. When the flash recycle time increases or the battery usage time shortens, replace the old one with a new ORLIT original battery.

Environment temperature effects the useful life and recharge of battery. Extremes in temperatere effect the battery capacity and shorten useful life. The battery works best in an ambient temperature range of 59°F~77°F. When environment temperature is lower than 0°C, battery capability will be limited even at full power.

Charge a depleted battery immediately to protect the capacity and life span. The LED battery level indicators warm of low voltage which can ruin the battery and the RT-610.

To maintain battery vigor, wait 10 minutes after use before recharging, remove from power and store in a dry place. Turn off power switch or disconnect charger before removing the battery. If the battery had not been used for over 3 months, please complete a full recharge.

Guide number	221GN@ft ISO 100
Maximum power 600Ws	**Voltage stabilization** 1%
Flash power variation	M: 1.0~9.0 / HSS: 4.0-9.0 / TTL: ±3.0EV 1 f-stop / 0.1 f-stop increment
Recycling time	2.3s at full power
Flash mode	M / TTL mode
Sync modes	Normal / HSS / Freeze
Flash duration(t0.5)	NOR: 1/800s~1/8000s / FREEZE: 1/800s~1/19000s
Color temperature	NOR: 5500°K±150°K / FREEZE: 5500°K±800°K
Modeling lamp	20W LED, Proportion / Independent mode
Wireless receiver	Built-in 2.4GHz
Channel / Group	CH: 00~15 / GR: A/B/C/D/E/F
Infra-red sensor	Built-in infra-red sensor
Sync socket	3.5mm
Sync voltage	DC6.5V
Lithium battery	DC14.8V 6000mAh
Thermal protection method	Auto shutoff temperature sensor circuit
USB firmware update support	Yes
Weight	5.0 lb/2.3Kg (without battery)
Dimensions	14.0×4.6×7.7 in/355×117×195mm
Auto power off	After 60 minutes / Sleep activated after 10 minutes
Battery capacity	Up to 450 times at full power
Battery life	300 charge cycle (to 80% capacity left)
Operating room temperature	32F~104F/0℃~40℃

Firmware Upgrade

The ORLIT Rovelight RT610 supports firmware upgrades through the USB port. Update information will be released on the ORLIT official website.

Maintenance

Avoid sudden impacts. The product should be kept dust free.

It is normal for the flash tube to be warm when in use. Avoid continuous flashes if unnecessary. Overheating the flashtube weakens its strength.

Shut down the device immediately should abnormal operation be detected. If the product exhibits failures or was exposed to liquids, cease its use until it is repaired by professionals.

Maintenance of the flash must be performed by our authorized service department which can provide original accessories. This product, except consumables, e.g. flash tube, is supported with a two-year warranty. Unauthorized service will void the warranty.

Changes made to the specifications or designs may not be reflected in this manual.

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.

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.

ORL⚡T

TTL Flash Extraordinaire
with Rovelight RT

1. Rovelight RT 600AC
2. TR-611/612 Transceivers
3. Rovelight RT 800AC
4. RT600-C Speedlite
5. Rovelight RT 610

2

Rovelight RT 800AC TTL

3

ORLIT
RT-600

4

Rovelight RT610

5

ORLFRL610RTB

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