



Radius 1 | Radius 2 | Radius 3  
USER MANUAL

Radius 1/2/3

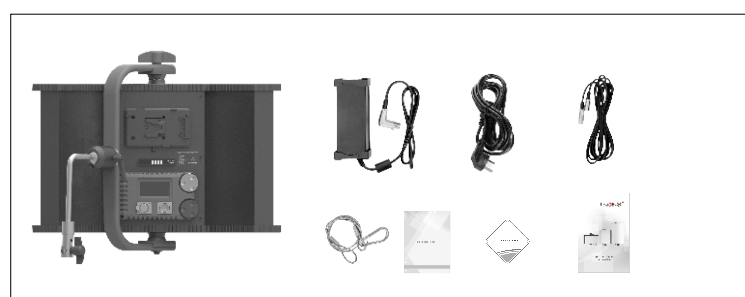
Characteristics:

1. FACTOR Radius lights are composed of ultra bright chip LEDs with a lifespan of up to 50,000 hours. These LEDs have a standardized color temperature with a CRI and TLCI of 95 or above.
2. The convex design provides soft wrap-around light with less shadow and wider angle of coverage.
3. Produces a soft, bright and stable beam with standard color temperature.
4. The design includes an all-aluminum frame for better heat dissipation to help ensure a long product life.
5. Features V-lock battery compatibility for convenient use on location.
6. The LCD displays real-time data for color temperature, brightness and DMX channel information.
7. All metal yoke and ball head for safety mounting on stands or hanging in any suitable location.
8. The unit is heat free and remains consistently illuminated even as the battery voltage drops.
9. Dimmable from 10%-100% and flicker-free due to the PWM integrated design.
10. Compatible with any DMX 512 control console.
11. Bi-color design is adjustable from 3200K (warmer) to 5600K (daylight).
12. Suitable for indoor or outdoor photography and videography. Great for studio or location shoots including TV, film, portrait photography and more.

Warnings:

1. Do not disassemble the or modify the light.
2. Remove batteries when in storage.
3. When not in use for extended periods of time, DO discharge and recharge the batteries at least one time monthly.
4. Do not short circuit the batteries as this may seriously damage the batteries and increase risk of fire.
5. Do not drop or damage the batteries; doing so may increase risk of fire.
6. Do not burn the batteries; properly dispose of them according to local regulations.
7. Do not operate with wet hands, doing so may cause electric shock.
8. Do not operate in environments near flammable gases or volatile liquids as this may increase the risk of explosion/fire.
9. Do not operate in enclosed spaces where heat buildup can be extreme, such as a car on a sunny day. The increased heat may cause premature failure of the lighting unit.
10. Do not touch the plug or AC adapter with wet hands; doing so may cause electric shock.
11. Do not damage, disassemble, twist or modify the power cord as it may increase the risk of fire or electric shock.
12. Do not place under heavy objects.
13. Avoid dust and debris buildup as this will change the illuminance and color temperature.
14. Keep the light surface clean with a soft, dry cloth.
15. When hanging the light, always use the included safety cable.
16. Make sure to load the batteries or AC adapter correctly on the V-lock plate to prevent accidental falls.
17. Do not block the air inlet for the cooling fan. Doing so will inhibit heat dissipation and may cause excess noise.

Packing list:



FACTOR Radius 1

- 1 Radius 1
- 2 AC power adapter 144W
- 3 Power cord
- 4 DMX cable
- 5 Safety cable
- 6 Instruction manual



FACTOR Radius 2

- 1 Radius 2
- 2 AC power adapter 220W
- 3 Power cord
- 4 DMX cable
- 5 Safety cable
- 6 Instruction manual

LED STUDIO LIGHT

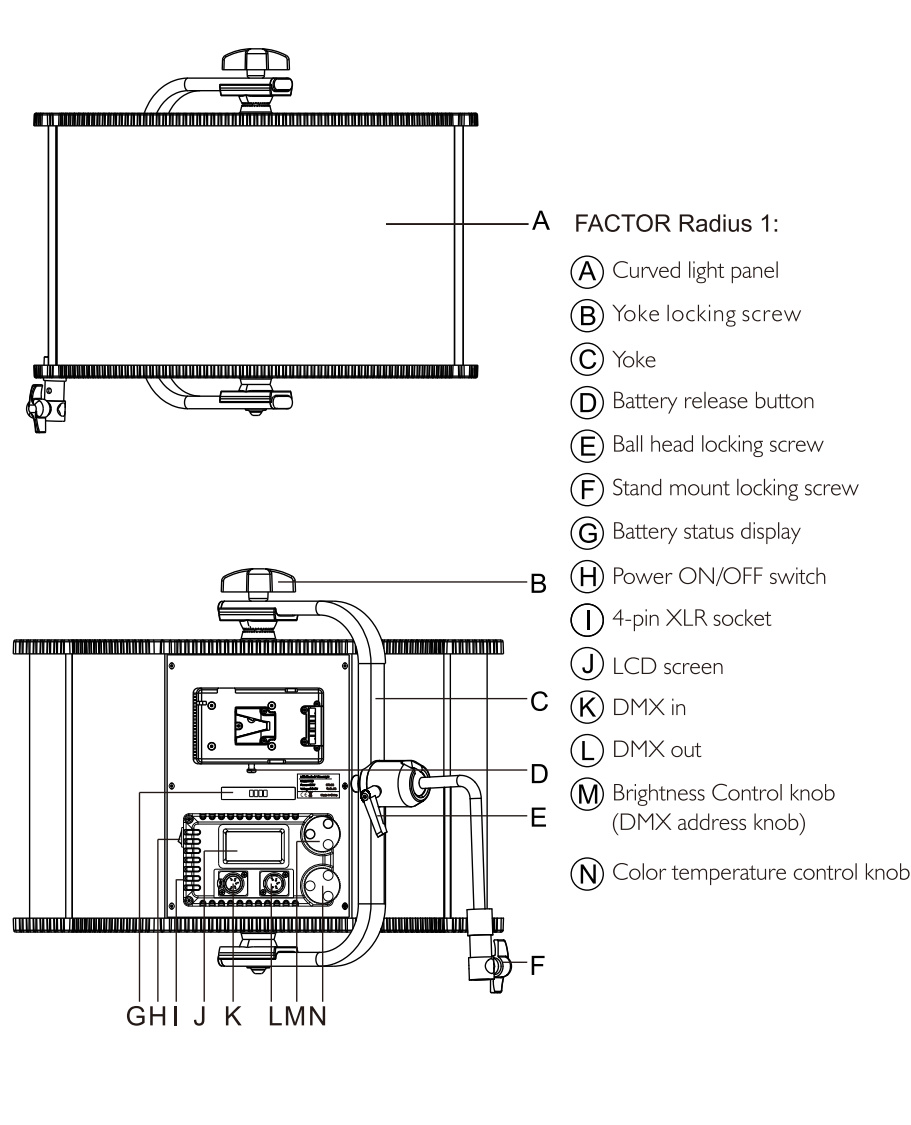
WIDE ANGLE SERIES



FACTOR Radius 3

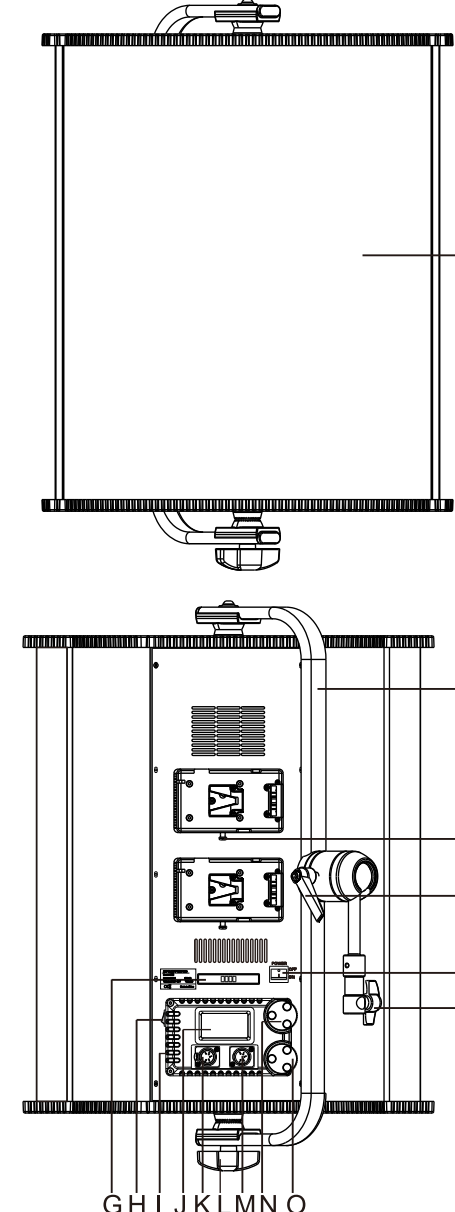
- 1 Radius 3
- 2 Power cord
- 3 DMX cable
- 4 Safety cable
- 5 Instruction manual

Parts Diagram:



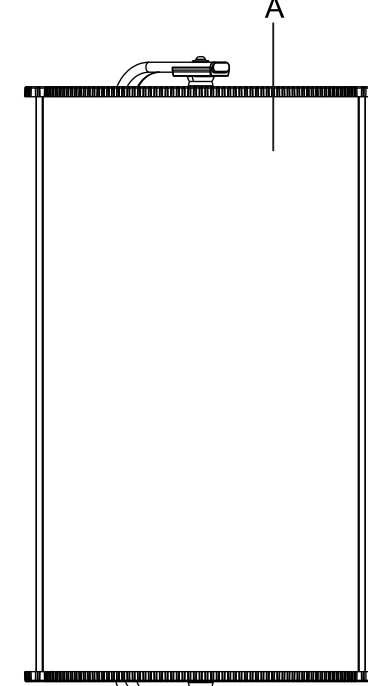
LED STUDIO LIGHT

WIDE ANGLE SERIES



FACTOR Radius 2:

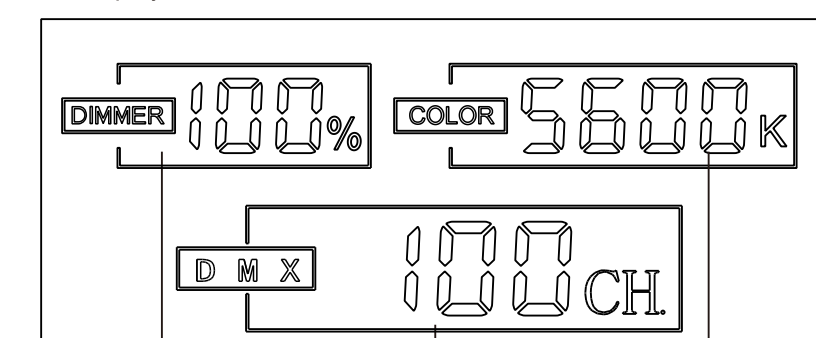
- Curved light panel
- Yoke
- Battery release button
- Ball head locking screw
- Power ON/OFF switch
- Stand mount locking screw
- Battery status display
- Cooling fan switch
- 4-pin XLR socket
- LCD screen
- DMX in
- Yoke locking screw
- DMX out
- Brightness Control knob (DMX address knob)
- Color temperature Control knob



FACTOR Radius 3:

- Curved light panel
- Yoke
- Battery release button
- Battery status display
- Ball head locking screw
- Stand mount locking screw
- Power ON/OFF switch
- Brightness Control knob (DMX address knob)
- LCD screen
- Color temperature Control knob
- Cooling fan switch
- 4-pin XLR socket
- DMX in
- Yoke locking screw
- DMX out

LCD display:

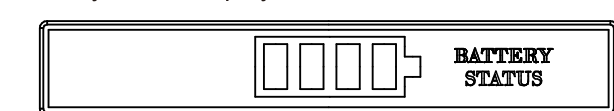


Brightness (10%-100%)    DMX address (1-512)    Color temperature (3200K-5600K)

Specification:

SPEC	MODEL	FACTOR Radius 1
LED		3072pcs of ultra bright LEDs
Illuminance		5600K: 5.22 Lux/1m, 2100Lux/2m 3200K: 4.73Lux/1m, 1900Lux/2m
Beam angle		180 degrees
Color temperature		3200K±200K – 5600K±300K
CRI		Ra>95-98
TLCI		≥95
Power		100W
Working voltage		AC100V-240V DC24V-30V
Dimension		44.5x33x22cm
Weight		6.93kg (w/o AC power adapter) 7.7kg (w/ AC power adapter)
Accessories		AC power adapter (15V 144W), Power cord, DMX cable, Safety cable

Battery status display:



4 bars green, battery level 80-100%

3 bars green, battery level 50%-80%

2 bars green, battery level 30%-50%

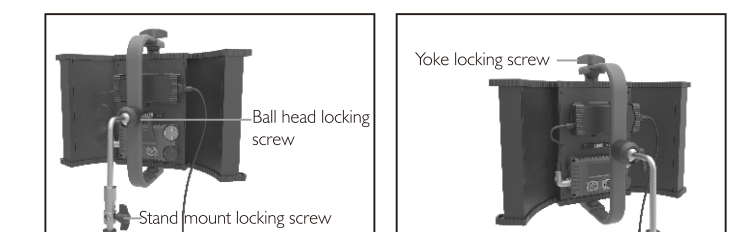
1 bar green, battery level 10%-30%

1 bar orange, battery level less than 10%

SPEC	MODEL	FACTOR Radius 3
LED		3072pcs of ultra bright LEDs
Illuminance		5600K: 5.22 Lux/1m, 2100Lux/2m 3200K: 4.73Lux/1m, 1900Lux/2m
Beam angle		180 degrees
Color temperature		3200K±200K – 5600K±300K
CRI		Ra>95-98
TLCI		≥95
Power		300W
Working voltage		AC100V-240V DC24V-30V
Dimension		103x53x22cm
Weight		16.8kg
Accessories		Power cord, DMX cable, Safety cable

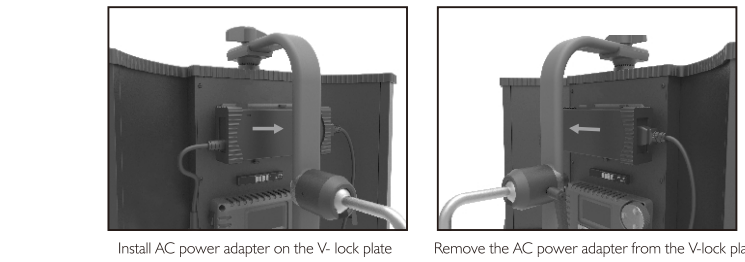
Set up instructions:

1. How to set up the light
  - (1) Loosen the stand mount locking screw by turning counterclockwise.
  - (2) Place the mount on the stand, then turn the stand mount locking screw clockwise to tighten in place on the stand.
  - (3) Loosen the yoke locking screw by turning counterclockwise. Adjust the light to the proper angle, then tighten the yoke locking screw by turning clockwise.
  - (4) Loosen the ball head locking screw by turning counterclockwise. Adjust the light to the proper angle, then tighten the ball head locking screw by turning clockwise.
  - (5) When hanging the light, always use the safety cable provided by looping it through the yoke and the external support from which the light is hanging and connecting the ends of the cable with the provided carabiner.



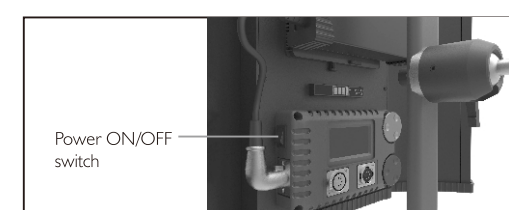
2. How to install the AC power adapter
  - (1) The V-lock holder is pre-installed on the AC power adapter.
  - (2) Install the power adapter with V-lock holder into the V-lock plate on the back of the light. It is successfully installed when you hear the locking mechanism click.
  - (3) To remove the AC power adapter press the battery release button and push the adapter out of the V-lock plate.

3. Connecting the power supply
  - (1) Insert the 4-pin XLR plug of the AC power adapter into the 4-pin XLR socket on the lower left side of the control box.
  - (2) Connect the AC power adapter to the external AC power (AC100V-240V) you will now be able to power on your light and see real-time data for color temperature, brightness and DMX addresses on the LCD display.

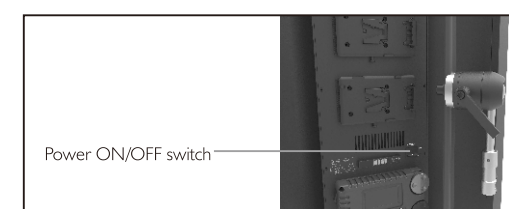


4. Battery Power
  - (1) Insert your V-lock batteries (sold separately) into the V-lock plates. You will now be able to power on your light and view real-time data on for color temperature, brightness and DMX address on the LCD display. The battery status display will now show real time battery information.

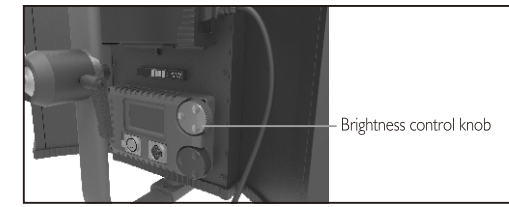
5. Operating instructions:
  - (1) Radius 1: Power on the unit by toggling the ON/OFF switch on the left side of the control box. The red indicator light will illuminate when the light is in operation. The LCD screen will now show real-time color temperature, brightness and DMX address information.



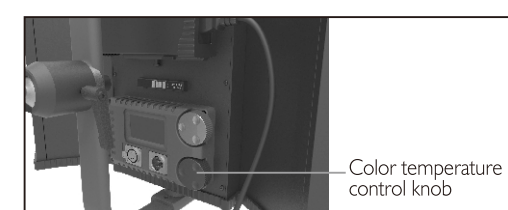
2. Radius 2/Radius 3: Power on the unit by toggling the ON/OFF switch on the back of the light. The red indicator light will illuminate when the light is in operation.



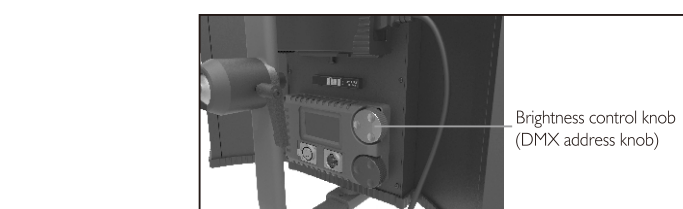
3. To adjust the brightness, use the brightness control knob (grey) on the upper right corner of the control box. Turn clockwise to increase or counterclockwise to decrease brightness. FACTOR Radius lights are dimmable from 10% to 100%.



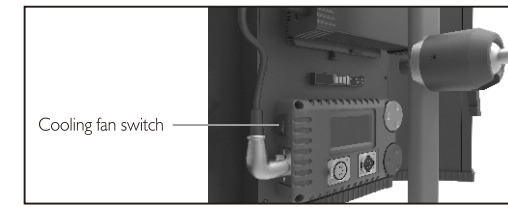
4. The color temperature can be adjusted using the color temperature control knob (red) on the lower right corner of the control box. Turn clockwise to increase or counterclockwise to decrease the color temperature. The color temperature control knob will allow you to adjust from 3200K (warmer) to 5600K (daylight).



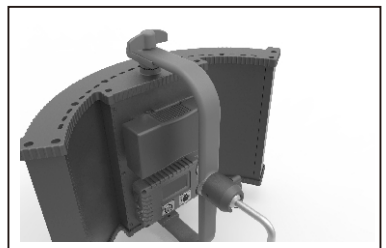
5. The brightness control knob is also the DMX address knob. To switch the DMX address function, press the knob once. You will see the DMX address on the LCD screen blink. You are now able to adjust the DMX address by turning clockwise to increase or counterclockwise to decrease the channel number. The available channel range is 1 to 512. You may switch back to brightness control functionality by waiting for the DMX address to blink five times or by pressing the knob again.



6. Radius 2/Radius 3: To achieve full brightness control you will need to activate the cooling fan for better heat dissipation. The cooling fan switch is located on the left side of the control box. Toggle the switch to "ON". The light is dimmable from 10% to 100% when the fan is on; it is dimmable from 10% to 80% when the fan is off.

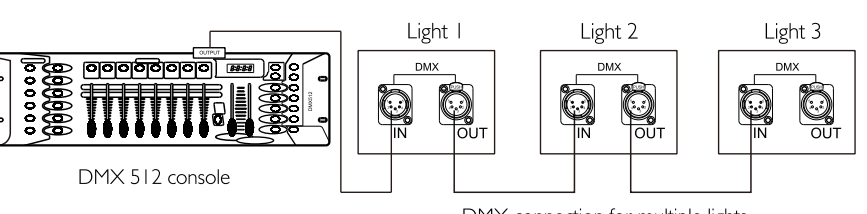
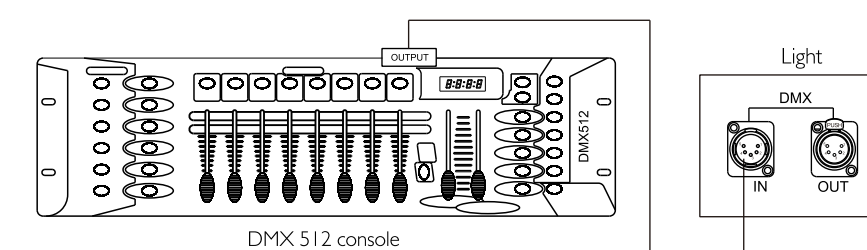


7. FACTOR Radius lights are equipped with V-lock battery mounts to provide portable power when needed. To remove the battery press the battery release button and slide the battery off of the V-lock plate. Note: Two batteries are required for the Radius 2 and Radius 3 models to ensure proper operation of the light.



8. When using battery power, the battery status display will display real-time power level data.
  - 4 bars green, 80-100% remaining power
  - 3 bars green, 50-80% remaining power
  - 2 bars green, 30-50% remaining power
  - 1 bar green, 10-30% remaining power
  - 1 bar orange, less than 10% remaining power

10. DMX Connection:
  - When using DMX, connect the DMX cable to the console as pictured below. Set the DMX address on the lighting unit to the channel that you would like to use to control the light on the console. You will now be able to control the light through your DMX console.



10. Please refer to the chart below for details of the DMX address on the LCD and the corresponding channels on the DMX Console.

DMX address on LCD	Corresponding channel on DMX console (on single color light)	Corresponding channel on DMX console (on bi-color light)
1	1-(Brightness)	1-(Brightness), 2-(Color temperature)
2	1-2(Brightness)	1-2(Brightness), 3-(Color temperature)
.....	.....	.....
16	1-16(Brightness)	1-16(Brightness), 2-(Color temperature)
17	2-1(Brightness)	2-1(Brightness), 2-(Color temperature)
.....	.....	.....
511	32-15(Brightness)	32-15(Brightness), 32-14-(Color temperature)
512	32-16(Brightness)	

