

*CineLED, Inc.*

**Cinering** <sup>©</sup> Makers of <sup>©</sup> **ring**™

**INSTRUCTION  
MANUAL**

MODEL No. CRM316W/M

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**REVISED 12/2016**



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## INTRODUCTION:

We developed *Cinering™* because we needed a ring light that was easy to use without complex parts, under one pound for steadicam and handheld work, and easily controllable in a variety of situations.

We know the problem with most niche lights is that they are not designed by filmmakers. We strive to make our products work to the stringent requirements the film set demands. Please let us know what you like and don't like about our products so we can consider this when making updates in the future.

*Cinering™* was designed to work with lenses as short as 24mm with a full frame sensor and 4x5 matte box. It works on lenses as wide as 20mm with a clip on matte box, and can be used on a 16mm w/ 4x5 matte box if the matte box is pulled back, bellows removed, and a donut is used to accommodate this.

## SAFETY WARNINGS:



**BE SURE BUNGEEES ARE FASTENED SECURELY WHEN CAMERA IS POINTING DOWN, ESPECIALLY ABOVE SUBJECT!**



**ADD ADDITIONAL SAFETY AS NECESSARY WHEN CAMERA IS POINTING DOWN ABOVE SUBJECT!**



**WHEN UN-PLUGGING RING FROM POWER SOURCE, UN-PLUG FROM SOURCE FIRST, EXPOSED FEMALE BARREL CAN SHORT TO OTHER CAMERA COMPONENTS, EVEN THOUGH BARREL IS DESIGNED TO WORK IN THIS WAY. USE CAUTION TO KEEP EXPOSED BARREL AWAY FROM OTHER CAMERA COMPONENTS!**



**12 VOLTS DC ONLY! VOLTAGE HIGHER THAN 16.4 VOLTS DC WILL DAMAGE UNIT AND CAUSE ELECTRICAL FIRE!**



**SPECIFICATIONS:**

Inner Diameter:	9”
Outer Diameter:	11.75”
Thickness:	0.75”
Ring Weight:	14 oz.
Voltage Input: Wireless / Local	10.5 - 16.4 VDC
Max Amperage:	1.3 amps @ 12 VDC
Dimmer PWM Frequency:	20 kHz
Max Output Both Colors:	280 fc @ 3’
Max Output One Color: 27 / 65	133 fc / 161 fc @ 3’
Ambient Operating Temp:	10 <sup>o</sup> F - 102 <sup>o</sup> F
Shipping Weight:	20.5 Lbs.
Shipping Dimensions:	20.66” x 17.20” x 8.40”

**FCC / INTERNATIONAL COMPLIANCE:**

Wireless Control Ring & Wireless Pocket Console  
Contain Transceiver Modules

These devices comply with Part 15 of FCC Rules

US FCC ID: OUR-XBEEPRO

Canada IC: 4214A-XBEEPRO

Europe CE ETSI1

This device may not cause harmful interference, and must accept interference received.



## KIT CONTENTS:

Kits are customized to each client's needs. Refer to your rental agreement for a complete list of contents included with your *Cinering™* kit.

Basic kits offered are as follows, and can be customized in any number of ways:

- Wireless Control (2) Light Kit - One Shared Controller
- Wireless Control (2) Light Kit - Two Separate Controllers
- Wireless / Local Control Combo Kit - One of Each
- Local Control (2) Light Kit - Local Control Only
- Wireless Control 15mm Rod Mount (1) Light Kit  
(for use without matte box)

## ACCESSORY LIST:

- *Pocket Console®* w/ Built In Wireless Transmitter
- RC4 Wireless Transceiver
- RC4 AC Adapter\*
- *LiteDimmer™* Local Control Dimmer
- 3 Wire Local Control Head Cable
- AC Adapter for Ring Power\*
- 3 Pin Fischer Power Cable
- 2 Pin Lemo Power Cable
- 4 Pin XLR Power Cable
- P Tap Power Cable
- 12V Zoom Lens Power Extension
- Lilon 12VDC Battery Packs
- Battery Charger\*
- 12VDC 2.1 Barrel Splitter - Battery Turn Around
- Accessory Controller Case
- Kit Case
- Half Mask
- Quarter Mask

\*NOTE: Proper AC adapter must be used for each application - improper AC adapter use may permanently damage equipment!



## ASSEMBLY & CAMERA MOUNTING

*Cinering™* mounts to the camera easily and quickly.

There is no need to change filter trays or matte boxes.

### To Mount *Cinering™*:

- Position ring against matte box
- Stretch bungee loops back to side brow tie down knob on each side of matte box
- If bungee is too long for some configurations, twist bungee to shorten  
(LMB5/25 requires the longer bungees, studio matte boxes require some shortening)  
***If your show requires a longer bungee length for your configuration, let us know!***
- Add loop velcro to hard mattes or matte box edges if additional support is required
- Cable is usually positioned to the side of the camera to prevent snagging while tilting, although it does not matter how the ring is oriented, as there are many different possible configurations.

## POWER ADAPTERS / OPTIONS

*Cinering™* can accept a variety of 12VDC power sources.

Ultimately you must adapt your 12VDC power source to a 2.1mm DC barrel connector. We provide the following options with the kits, and can provide less common options to meet your needs, just let us know. Power options include:

- P-Tap to 2.1mm Barrel
- 3 Pin Fischer to 2.1mm Barrel (for RED Cameras)
- 2 Pin Lemo to 2.1mm Barrel (for ARRI Alexa Cameras)
- 4 Pin XLR to 2.1mm Barrel
- 12 VDC 2.1mm Barrel Extension (for longer zoom lenses)
- 12 VDC Battery Pack & Turnaround Barrel / Splitter
- AC Adapter

To power up Wireless Control *Cinering™*:

- Connect CineRing barrel connector into any 12VDC power source with appropriate adapter
- Dim Blue LED will illuminate solid inside ring if unit is powered properly, blue and orange LED flashes when wireless connection is made

To power up Local Control *Cinering™*:

- Connect *LiteDimmer™* into any 12VDC power source with appropriate adapter
- Connect *LiteDimmer™* to ring using 3' 3 pin / 3 wire head cable (blue / green connectors)
- Select either high or low output w/ switch on dimmer and set color and intensity w/ dials



**VOLTAGE MUST BE 12 VOLTS DC! VOLTAGE HIGHER THAN 16.4 VDC CAN PERMANENTLY DAMAGE UNIT AND CAUSE ELECTRICAL FIRE!**



## CONTROL OPTIONS

To make the unit as lightweight as possible, *Cinering™* is not switchable between wireless and local control. Choose the best ring for the application, wireless or local, and mount the appropriate ring for the shot.

### LOCAL CONTROL RING

- Local Control Ring can only be used with the provided *LiteDimmer™* hybrid dimmer. Set the color and intensity with the dials on the dimmer connected to the light.

### WIRELESS CONTROL RING

There are two options for controlling the wireless ring. The wireless version cannot be turned on without a DMX signal from a DMX controller. If DMX signal is lost, *Cinering™* will hold it's last look until DMX signal returns, or unit is powered down.

#### OPTION ONE:

To control wireless ring from control console on existing DMX network:

- Place RC4 DMXio Transceiver as close to the set as possible

#### **SEE PAGE 10 FOR TROUBLESHOOTING WIRELESS TRANSCEIVER PLACEMENT / RANGE!**

- Power up RC4 DMXio with included AC Adapter (labeled RC4)
- Plug DMX IN port into any DMX port in your network
- Ring will take ~8-15 seconds to connect, when connection is made, blue light will flash intermittently inside the unit

#### OPTION TWO:

Use the Remote Control Unit (RCU) to make fine adjustments on the fly from a video monitor, or in locations where a control console is not available. This is a Baxter *Pocket Console®* that we modify to transmit our proprietary wireless signal to our wireless ring receivers. Note it cannot be used to control wireless DMX units that do not belong to CineLED, Inc.

- Make sure 12V Lilon Batteries are charged
- Attach battery to back of pocket console with velcro and plug console into battery, switch battery to "ON" - Ring will take ~8-15 seconds to connect, when connection is made, blue light will flash intermittently inside the unit

**NOTE: Unlike a normal Pocket Console®, there is no internal battery to change, you will never need to open the Pocket Console® for any reason**

- Be sure *Pocket Console®* power switch is set to "ON" (this can be left in the "ON" position)
- Be sure patch switch is set to "NORMAL"
- Set to our factory default, slider 1 controls the warm LED, and slider 2 controls the cool LED
- To enter into our pre-set sub-masters (which will give you preset color temperatures on one slider), PRESS AND HOLD the LAST and NEXT buttons until you see "PLA" on the display
- Now each slider from 1 to 8 comes up in a different color, in the following order:

1 =	2 =	3 =	4 =	5 =	6 =	7 =	8 =
2800	3000	3200	3800	4300	4800	5600	6000

**NOTE THAT IT'S BEST TO HOLD THE RCU SIDEWAYS, WITH THE CABLE AT THE BOTTOM, AND OPERATE ONE SLIDER WITH BOTH THUMBS FOR SUBTLE DIMMER MOVES.**





## CONTROL OPTIONS (continued)

### **DMX ADDRESSING:**

We send units out with a pre-set address. We use addresses towards the top of the universe as we find it helps people integrate it into already working networks as they tend not to conflict as often.

If you have one (1) wireless ring, it's  
**DEFAULT ADDRESS will be 509/510**

If you have two (2) wireless rings, the second ring's  
**DEFAULT ADDRESS will be 507/508**

If you have a custom address you'd like us to set for you before we ship, we can accommodate that, just make arrangements with us beforehand.

Should you need to re-address your wireless ring(s), you can do this following the instructions below:

- Connect DMXio transceiver to network and power up both transceiver and wireless ring
- Remove magnetic lens from ring, note position of (3) buttons on outside edge of wireless board
- On your console, set all levels in the DMX universe to "0"
- Select the channel you want to assign to "CIRCUIT A" and set to 25%  
**25% level is IMPORTANT - This selects proper dimming curve for CineRing™**
- Briefly press the middle "A" button on the side of the wireless board, when it's assigned the circuit will output level of 25%  
**NOTE YOU HAVE TO SET TWO SEPARATE ADDRESSES - CONTINUE W/ STEPS BELOW!**
- Select the channel you want to assign to "CIRCUIT B" and set to 25%
- Briefly press the right "B" button on the side of the wireless board, when it's assigned the circuit will output level of 25%
- Replace magnetic lens, be sure black key mark on lens matches magnet next to cable input on ring to ensure proper fit of lens

Now your selected addresses should work to control *Cinering™* across your system.

You will need to update your RCU *Pocket Console®* with the new channel numbers for seamless switching between dimming systems. To re-patch, switch pocket console to "PATCH" mode, scroll to first channel number your receiver is assigned and press the button below slider number 1, repeat steps to patch second channel number to slider number 2. Return to "NORMAL" mode and pocket console should work properly. You do not need to reprogram the sub masters, they should work normally using pocket console channels 1 and 2.

*Cinering™* can be controlled as you would control any standard bi-color LED unit from your console.  
**If you have more than (1) Wireless Pocket Console®, ID will match ID marked on ring, and pocket consoles will only work with matching rings - This keeps signals from crossing.**



## **ABOUT MAXIMIZING WIRELESS SIGNAL**

### *IF WIRELESS RING LOSES SIGNAL INTERMITTENTLY:*

Line of site wireless range is 200'+ with fully charged controller battery.

Wireless signals do not move through all walls or bodies equally. While transceivers will perform best in open space, this isn't realistic. If connection is weak, you'll detect stuttering as you move the dimmer slider or the unit will not respond at all.

Move transceiver closer and/or higher, clipping it high to back of set wall or similar usually helps. Make sure there aren't large metal objects between *Cinering™* and transceiver, such as metal spiral staircase or large metal cabinets. Also avoid stacks of set walls.

Wet bodies - people or thick woods - can also affect range.

Transceiver will NOT transmit through most stage walls. These are usually insulated double walls, no wifi signals will pass through them.

Be sure any batteries in the system are fully charged, a weak battery will provide a weak signal. You will detect stuttering as you slide the dimmer or it will stop responding if battery is not sufficiently charged. RCU batteries generally last 10 hours, depending on usage.

If you have further wireless connectivity problems, contact technical support and we'll guide you through getting your system set up for solid wireless connections.



## TROUBLESHOOTING

### ***RCU IS CONNECTING TO WIRELESS RING BUT LED DOES NOT ILLUMINATE***

*Pocket Console*<sup>®</sup> has most likely become mis-patched. To re-patch, switch pocket console to “PATCH” mode, scroll to first channel number your receiver is assigned (typically 509) and press the button below slider number 1, repeat steps to patch second channel number (typically 510) to slider number 2. Return to “NORMAL” mode and pocket console should work properly.

### ***ROLL BAR IS SEEN FROM THE RING LIGHT ON CAMERA***

Somehow the PWM frequency, which makes *Cinering*<sup>™</sup> flicker free at most shutter angle / frame rate options has been changed back to factory default. It needs to be switched back to 20kHz. Contact Technical Support at 310-878-4333 for assistance in re-setting the PWM frequency.

### ***RING LIGHT IS OVERHEATING***

*Cinering*<sup>™</sup> should not get hot, when on at full for extended periods it will get warm to the touch. If it ever gets hot to the touch (burning hot) or you detect smoke or melting, DISCONTINUE USE IMMEDIATELY AND CONTACT TECHNICAL SUPPORT at 310-878-4333 and we'll get a replacement unit to you immediately. This is not a common problem and would be considered highly unusual.

### ***RING DIMS UP THEN TURNS OFF JUST BEFORE REACHING 100%***

This is caused by high voltage - DISCONTINUE USE IMMEDIATELY - IMMINENT DAMAGE WILL OCCUR! Re-connect ring to a 12VDC power source no >16.4V and ring should power up properly. If it does not work after an over voltage incident, contact Technical Support at 310-878-4333 and we'll get a new unit to you ASAP.

### ***ON BATTERY CHANGE LIGHT DOES NOT RE-POWER UP***

If an Anton Bauer battery is changed rapidly, unit may not power up properly. Leave it powered down for 15 seconds and it should re-power properly. Un-plugging light before battery change usually solves this issue.



## CONTACT TECHNICAL SUPPORT

If you have any trouble using *Cinering™*, feel free to contact Technical Support and we'll get it straightened out. This includes control issues or integration into your existing DMX network.

**CINELED, INC.**

**310-878-4333**

**1-866-868-5507**

**CINELED@GMAIL.COM**

Technical Support - Ext 3

After Hours Technical Support - Ext 4

*Cinering™* is fabricated in the U.S.A.  
utilizing globally sourced materials



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