



# LR7DR

# LR12DR

## User Guide



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## Thank You for your Lightrein Purchase

Thank you for choosing Lightrein. We hope you will be very pleased with your new Lightrein purchase.

We have chosen to carry this digital flash because its professional features will help you craft great images. Lightrein flashes are just one component of our comprehensive studio offering. We also carry a large variety of softboxes, Lighttools® world-famous Soft Egg Crates® and other light modifying accessories that will allow you to set your image apart from the rest.

Lightrein prides itself on providing Canadian photographers prompt accurate advice, extensive warranty support and timely service.

All of our flashes are CSA approved and come with a 1 year Canadian Warranty, and our documentation is designed to get you up and running as quickly as possible.

So, get ready to have some fun and create some exceptional images!

-The Lightrein Team

## Safety Notes

This product has a high electric voltage. To avoid an electric shock, always use a properly grounded receptacle and cord. Do not use this product in excessive moisture, or with wet hands - Indoor Use Only.

During normal operation, the bulbs become quite hot, and care should be exercised when handling the unit, or changing the attachments.

Always operate the unit with the protective pyrex cover in place. When transporting or storing the unit, remove any accessories such as barn doors or reflectors and cover the bulb with the black plastic protective cover.

When replacing the soft boxes, or using accessories such as snoots, barn doors and reflectors, always make sure the power switch is in the OFF position.

Lightrein will not be held responsible for electric shock, or equipment damages, due to modification or repair by other unauthorized dealers. Please contact our Service Repair Center for repairs. For any other inquires, contact Lightrein, Inc. [info@lightrein.ca](mailto:info@lightrein.ca)



Control panel showing default LCD screen

Dial for flash intensity

Dial for modeling light intensity

The LR7DR and LR12DR are professional

700 WS and 1200 WS digital flashes with an option for a 2.4 GHZ remote control system made up of a transmitter, receiver and hand-held remote control (all sold separately).

**Flash Controls:**

Refer to the control panel on the back of your flash (pictured above) while reviewing the function of each controller - listed below.

|                                   |   |
|-----------------------------------|---|
| <b>Input</b>                      | Power Cord Connection with fuse holder for Flash (250V/12A)   |
| <b>Fuse</b>                       | Fuse holder for Modeling Light (250V/10A)   |
| <b>Sync</b>                       | Sync socket for sync cord or 3 <sup>rd</sup> party radio receiver   |
| <b>Power</b>                      | ON/OFF Switch   |
| <b>Remote Receiver Receptacle</b> | <p>Located at the top of the back panel</p> <ul style="list-style-type: none"> <li>• Can be used with dedicated Remote Control System or Flash Trigger System (both sold separately) <ul style="list-style-type: none"> <li>○ Remove protective cover</li> <li>○ Insert receiver</li> </ul> </li> </ul> |

|                                |   |
|--------------------------------|---|
| <b>Dial for Flash</b>          | <p>Rotate dial to set Flash Light Intensity by 0.1 F-stops (7 F-stop range)...setting displays in LCD</p> <p>Depress Dial to rotate through Maximum Power, Minimum Power and last power setting used</p> <p>Also used with XB button to set flash group (for remote control) and set up the Aperture Control System</p>   |
| <b>Dial for Modeling Light</b> | <p>Rotate dial to set Modeling Light Intensity...setting displays in LCD</p> <p>Depress Dial to rotate through Maximum Power, Minimum Power, last power setting used and OFF</p> <p>Also used with XB button to set flash ID (for remote control)</p>   |
| <b>LCD</b>                     | <p>Display will show:</p> <ul style="list-style-type: none"> <li>• Flash and Modeling light power settings</li> <li>• Aperture Control System and established F-stop</li> <li>• Cell, Sound, and Proportional Light settings <ul style="list-style-type: none"> <li>○ (on - grey fill; off - no fill)</li> </ul> </li> <li>• CON is for Continuous Model Lighting <ul style="list-style-type: none"> <li>○ (on - grey fill; off - no fill)</li> </ul> </li> <li>• Flash designation (group/id - for XB remote control)</li> </ul> |
| <b>XB</b>                      | <p>Depress button to</p> <ul style="list-style-type: none"> <li>• Set group/id for each flash (up to 50 flashes) <ul style="list-style-type: none"> <li>○ 10 flashes per group (A, B, C, D, E)</li> </ul> </li> <li>• View flash counts</li> <li>• View internal flash temperatures in real time – w/ description e.g. “cool”</li> </ul>  |
| <b>Cell</b>                    | <p>Depress to turn Photo Cell On</p> <ul style="list-style-type: none"> <li>• Button turns blue – LCD shows CEL in grey fill</li> <li>• The photo cell is located on the top of the flash – above the control panel</li> </ul>  |
| <b>Sound</b>                   | <p>Depress to activate audible “Flash Ready” sound</p> <ul style="list-style-type: none"> <li>• Button turns blue – LCD shows SND in grey fill</li> </ul>   |

|             |  |
|-------------|--|
| <b>Prop</b> | Depress to turn Proportional lighting ON <ul style="list-style-type: none"> <li>• HOLD to turn on continuous model lighting</li> <li>• LCD shows PRO in grey fill</li> <li>• A proportional setting will balance the percentage of model light intensity to the percentage of flash intensity</li> </ul> |
| <b>Test</b> | Depress button to Test Fire Flash <ul style="list-style-type: none"> <li>• Blue light Indicates that Flash is Ready to fire</li> </ul>   |

### Before Operating

1. Ensure modeling light is installed. (see page 9).
2. Ensure all switches and regulators are powered OFF, or in the minimum position.
3. Connect the Power cord to the Power socket.
4. Connect the Sync cord to the Sync socket (unless you are using a remote trigger or the photocell).

### Turn Flash On

**Set ON/OFF** Switch to the ON position to power up the flash. The TEST light will illuminate to indicate that the flash is ready to fire.

This section will explain basic use of the flash **without** the hand-held Remote Control. Use of the hand-held remote control is explained on separate documentation that comes with the LR Remote Control System.

### Basic Operation

1. **Push** the control buttons to **activate/deactivate** the functions listed below:

| Function     | Description  |
|--------------|--|
| <b>Sound</b> | <ul style="list-style-type: none"> <li>• <b>Press</b> Sound button to activate the audible alert – this will let you know when the Flash has recycled and is ready to fire again</li> <li>• “Flash Ready” is also indicated by the TEST “blue light” indicator coming back on</li> </ul> |

|             |   |
|-------------|---|
| <b>Cell</b> | <ul style="list-style-type: none"> <li>• <b>Press</b> Cell button to activate photo cell</li> <li>• The Photo Cell is located on the top rear of the flash</li> <li>• It is either ON or OFF</li> <li>• When turned ON, this flash can be fired by the flash of another flash</li> </ul>  |
| <b>Prop</b> | <ul style="list-style-type: none"> <li>• <b>Press</b> Prop button to activate proportional lighting</li> <li>• <b>Press and Hold Prop</b> button to activate continuous proportional lighting</li> <li>• This will balance the percentage of model light intensity to the percentage of flash intensity <input type="checkbox"/></li> </ul> |
| <b>Test</b> | <ul style="list-style-type: none"> <li>• <b>Press</b> Test button to test fire the Flash, as needed</li> </ul>  |

Adjust flash intensity

Adjust modeling light intensity

2. **Adjust** the intensity of the Flash to your desired power level using the analog dial...selected power setting will display in the default LCD screen.

- Power settings from 1.1 to 8.1 (7 F-stop range)



- Depress Flash dial to go from
  - **minimum** power setting
  - **last used** power setting and
  - **maximum** power setting

3. **Adjust** the intensity of the Model Light to your desired power level using the analog dial

- Power settings from 1.1 to 8.1
- Depress Modeling dial to go from
  - i. **minimum** power setting
  - ii. **OFF**

iii. **last used** power setting and  
iv. **maximum** power setting

- **Set** proportional lighting using the PROP button

4. Before shutting off power, **adjust** modeling light and flash to “Minimum” settings – this will enhance the life of your flash.

### Set Up Aperture Control System (optional)

The Aperture Control System – once set up – will display an exposure value (f-stop) below your Flash Power Settings: **as you change the flash power setting, the exposure value will also change and remain correct as long as the distance and position of the subject and flash have not changed.**

Once set, the exposure value (F-stop) will display on the default screen of the LCD. This feature can also be used with the hand-held remote control.

To set the Aperture Control System for each flash you will use the

- XB button,
- LCD display and
- both flash and modeling light dials.

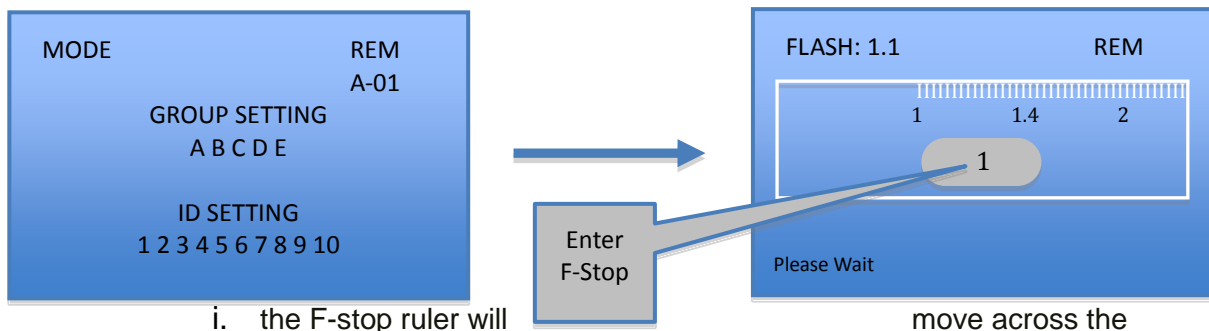
1. Set any Flash Power setting (e.g. 5)
2. Obtain a meter reading of the light reaching your subject using the selected Flash power setting (step 1)
3. Press the XB button for approximately 3 seconds



- a. group/id setting screen displays...press again to display ACS screen and allow the flash to flash 3 times before proceeding (see graphic next page)

2. Rotate the Flash dial to enter exposure setting (from step 2 above)...it will appear in the grey oval - below the F-Stop ruler (in white).

- a. As you rotate through your F-stop selections



- i. the F-stop ruler will move across the screen
- ii. and the “selected” F-stop will appear in the grey oval.

3. Once you have entered the appropriate F-Stop for that power setting...press the XB button again.

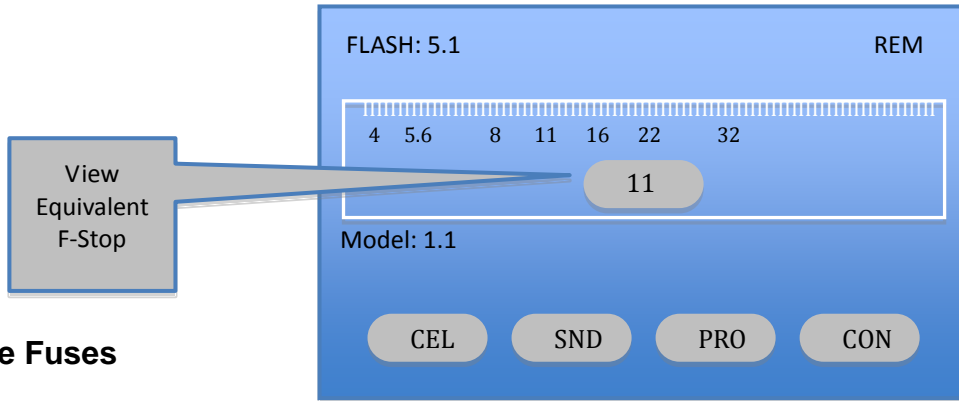
The Aperture Control System is now set up and ready to be used/referenced.

### Use Aperture Control System (optional)

**With Aperture Control System set up**, you can reference the exposure value for a selected power setting

- The F-stop displays on the default screen between the FLASH and MODEL power settings (in grey oval, under F-stop ruler).
- As you Rotate the Flash dial to change the flash power setting, you will see an updated F-stop value...this will be correct, as long as there have been no changes to the position/distance of your light source and model since setting up the Aperture Control System.





### Change Fuses

1. Locate the fuse compartment **for the flash** just below the power plug outlet.
2. Pry open the fuse compartment with a small screwdriver, as shown in the picture opposite.
3. Replace burned fuse with a 250 volt, 12 amp CSA approved fuse.
4. Locate the fuse compartment **for the modeling light** just below the power sync connection.
5. Push and turn (left) open the fuse compartment with a small screwdriver, as shown in the picture opposite.
6. Replace burned fuse with a 250 volt, 10 amp CSA approved fuse.

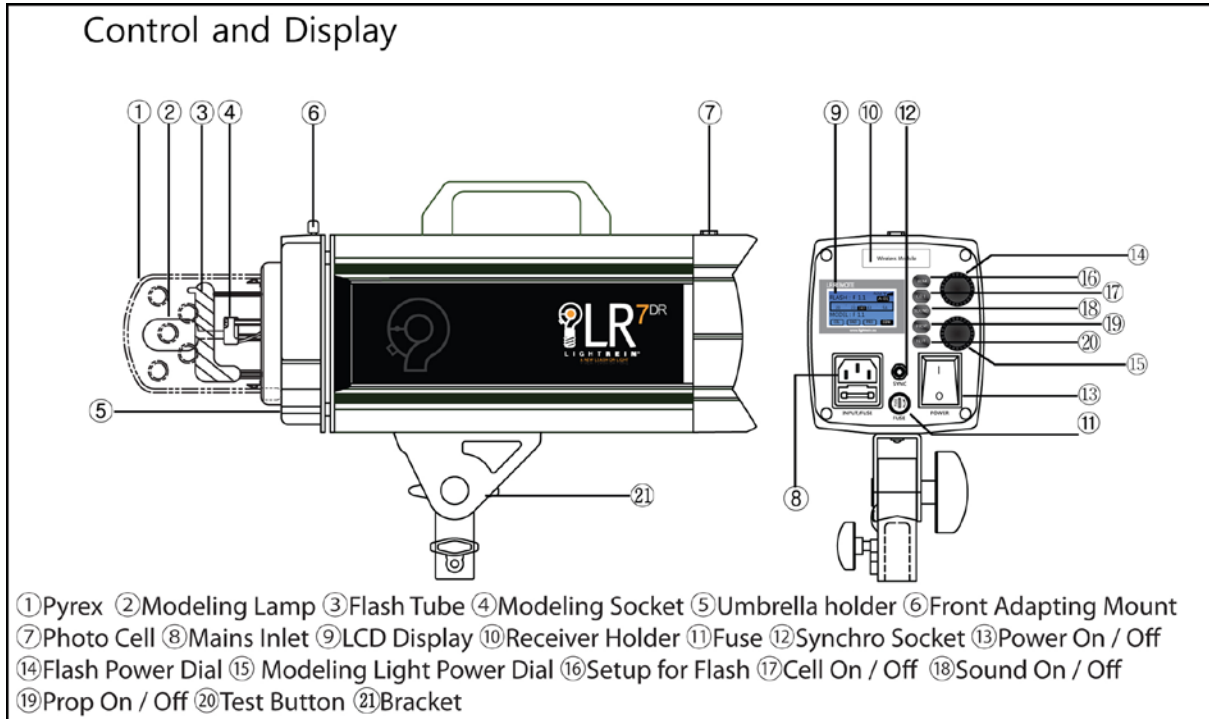


### Install or Replace Modeling Light

1. Remove protective black plastic cover from flash housing.
2. Remove clear pyrex cover using a soft cloth or tissue paper to avoid leaving finger prints on cover.
3. Install modeling light as shown in picture – using a soft cloth or tissue paper once again.
  - a. Gently push/wiggle modeling light fully into the two horizontal receptacles in the middle of the flash housing.
4. Replace pyrex cover.



**Line Drawing (LR7DR pictured...LR12DR is the same)**



**Tech Specs**

|  | LR7DR | LR12DR |
|--|-------|--------|
|--|-------|--------|

|                         |   |   |
|-------------------------|---|---|
| Max power               | 700 Ws  | 1200 Ws   |
| Min Power               | 9 Ws  | 14 Ws   |
| F-stop Range            | 7   | 7   |
| Color Temperature       | 5500 (+/- 250)  | 5500 (+/- 250)  |
| Flash Duration          | 1/1500  | 1/1300  |
| Recycle Time            | 0.05 – 0.9 sec  | 0.05 – 1.2 sec  |
| Flash Monitoring        | Audio and Visual  | Audio and Visual  |
| Fuse                    | Modeling type: T10A<br>Flash type: T12A                           | Modeling type: T10A<br>Flash type: T12A   |
| Cooling Fan             | Yes – with operating temp display                                 | Yes – with operating temp display   |
| Flash Release           | Photocell – Sync –Test -<br>Optional wireless flash/radio trigger | Photocell – Sync –Test - <input type="checkbox"/> Optional wireless flash/radio trigger |
| Photocell               | ON/OFF  | ON/OFF  |
| Audible Recharge Alert  | ON/OFF  | ON/OFF  |
| Modeling Light          | Full – Proportional - <input type="checkbox"/> User Defined - Off | Full – Proportional - <input type="checkbox"/> User Defined - Off                       |
| Dimensions              | 46.5 x 22 x 12 cm   | 48.5 x 22 x 12 cm   |
| Includes handle & mount | 18.3 x 8.67 x 4.7 in  | 19 x 8.67 x 4.7 in  |
| Weight                  | 3.4 kg / 7.5 lbs  | 4.3 kg / 9.5 lbs  |