



CRLS 2.0
CINE REFLECTORS
MANUAL &
WARRANTY

PLEASE READ THIS MANUAL
BEFORE TAKING CRLS ON SET

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1. USER MANUALS

1.A CINE REFLECTORS

The Cine Reflectors are engineered aluminium coated surfaces that give you spill light free control over diffused light in 5 different grades ranging from DIFF 0 - a mirror, all the way to DIFF 4 - Super White, a high-end white surface that allows for maximum light extraction of 98%. This results in a new cinematic quality of reflective light - rendering a natural look and feel.

Handling the Cine Reflector

Dimming: By slowly dipping the Cine Reflector into the light source you can intuitively decide the intensity of the reflected light.

Zoning: By tilting and panning the Cine Reflector you can precisely set your light zones with far more control than with common bounce boards.

Controlling: You will see that the diffused light only goes in the direction you intended - with no spill light to take care of.

Light sources: The perfect light source for the Cine Reflector depends on the look you want to achieve. If you want a very natural feel, use a hard light source, like a Par Light, Fresnel

or a Leko and place it as far away as possible from the Cine Reflector. This will double the distance, giving you less falloff.

If you want to control soft/diffused light, use a flood or soft light of any kind and redirect it from the Cine Reflector.

Lighting tip:

If you want colored light, just gel the light source or use an LED source, the Cine Reflector has 100% accuracy with its color rendering. There will be no color shift, making it ideal when redirecting practicals, like from a lamp shade or a streetlight.

Choosing a larger Cine Reflector offers more output and a bigger “wrap around effect”.

Additional Reflection:

Try placing a smaller, harder Cine Reflector in the center of a bigger, more diffused one. This will give you a more complex key-light and a beautiful new shadow quality.



Video:
Physics

Technical specifications:

- The Reflectors are built for long life if handled properly. Small scratches will not affect light quality.

- Total light reflection rate: 97-98%
- Full color rendering, no change of color or spectrum. The Cine Reflectors and C-Wheels have been lab tested for wind, impact, heat and cold and passed the following measurements: +50°C to -30°C (122°F to -22°F), Vibration up to 3G.

Rule of Thumb: The more diffused a surface, the less small bumps and scratches will matter.

1.B C-WHEELS, SAFETIES AND C100

C-Wheel

Attach the C-Wheel to the rail by entering from the Easy Access Point and slide it to the middle of the rail. Ideally the rail will be in the horizontal position.

For maximum tilt, turn the rail into vertical position and slide the C-Wheel towards the end of the rail.

Safety tip! The Easy Access Point must always be visible - do not mount the C-Wheel on the Easy Access Point!

C-Wheel: When in the desired position, tighten the wheel clockwise without using too much force - simply hand tight. Always re-check. The safety wedge on the bottom of the C-Wheel is made to protect the Cine Reflector.

Safeties

C-Wheel Safety wedge: The safety wedge will break at 0.5Kn if the Cine Reflector is handled or hit with too much force. This is intentional in order to protect the Reflector from bending, falling or from a person running into the Cine Reflector. Spare wedges come with all Grip Bags.

Rigging wedge: If you do not want the wedge to break, you can replace the safety wedge with an aluminium rigging wedge. Please note that the aluminum won't slide as easy as the safety wedge.

Safeties: **Use safeties at all times!** Hook the carabiner into the safety hole of the Cine Reflector, and then attach the other end of the safety to a secure rigging spot. Recheck all safety precautions.

C100

The C100 Frame: The Frame is a state of the art Reflector Frame.



Video:
C-Wheel



Video:
CRLS Safety

The Yoke comes with a friction system, so when adjusting the lock levers to the desired friction it will stay in the desired friction setting no matter how often you tilt the Frame.

You can detach the yoke of the C100 Frame by opening the lock levers and unscrewing the flat

head screw from the lock lever.

Safety tip! Please only detach or attach the yoke with the C100 protection pads on the Frame.

When putting the yoke back on, please screw the flat head screw back into the lock lever until you can't easily turn it anymore. No force needed. Now you can close the lock lever and the pressure won't harm the Cine Reflector.

The Frame is made with 4 holes within the protection corners so you can attach a sash/rope for control high up on a stand.



Video: C-100 friction settings



Video: C-100 lock levers



Video: C-100 using a rope

Pads: Please always use the protection pads when the C100 is not in use. Especially when carrying the C100 on your shoulder, any tools on your belt can severely damage the C100 if the pad is not on.

Take the pads off by pulling the pad off the velcro attached to the Frame.

Safety tip! If you encounter winds and you decide to leave the pad for the backside of the C100 on, always secure the pad separately with a rope, wind may get under the pad and rip it off. The same logic applies to securing the stand and the use of sandbags - please take all necessary safety measures to ensure a safe setup.

The Frame is built in such a way that you can unscrew and disassemble the Frame and switch Reflector surfaces in the workshop. For example, if a Cine Reflector is damaged.

Please contact support@thelightbridge.com for the C100 special maintenance guide.

1.C SPEEDBAGS AND SLEEVES

Like any high precision tool, your Cine Reflectors should be treated with care to ensure a long life. We recommend that you put the Cine Reflector back in the Sleeve when finished using it, whether the Sleeve is in or out of the



Video: Using speedbags & sleeves

Speedbag. The Speedbag and the Sleeves are like scrim bags, ready to hang on a stand. This makes for fast switching of Cine Reflectors and provides the best protection.

can eventually lead to permanent discoloration and deterioration of the surface. Spray the cloth with water or isopropyl alcohol (Isopropanol). An empty pump spray bottle is in the Cleaning Pouch.

Safety tip! Do not use acid based cleaners like Windex, 409, etc.

The white “C-Sponge” included in the Cleaning Pouch can be used on the Cine Reflector surface in combination with isopropyl alcohol for more stubborn stains, as this will often remove them without further effort.

Do not use pressure when cleaning with the sponge or microfleece cloth as this may take off the protective coating.

After use in the rain (which can be acidic) or after use by the ocean and salt water, please wash the Reflector quickly in fresh water and dry with a soft cloth to prevent oxidation and/or staining.

2. HANDLING AND CARE

2.A REFLECTORS

The Cine Reflectors are manufactured to be extremely durable and water resistant, however the highly engineered aluminum surfaces are subject to scratching, abrasions, and acidic fingerprints and should be treated like any precision lighting tool and handled with care.

Clean regularly

Should fingerprints occur, it is recommended they be cleaned at the end of the day's shoot with the microfleece cloth as the acid in some fingerprints

Cine Reflector Damage

Should a Cine Reflector fall or otherwise sustain a serious collision, distortion of the surface will cause a decrease of quality. Please replace the Reflector for optimal performance.

Rule of thumb: the more diffused the surface, the less scratches and small bumps will affect the quality of light.



Video:
Cleaning
C-Reflectors

Manufacturing note

All Cine Reflectors have undergone severe quality checks during manufacturing and packaging. Minimal scratches, small punctures and small dark spots can occur on both sides of the Cine Reflectors.

They are a part of the manufacturing process and have passed the quality check. They will not affect the quality of your light.

2.B C-WHEELS (MALE AND FEMALE)

C-Wheels are a high precision tool. Please treat with care. If the wedge gets dented (for example from being thrown in with the rest of the grip gear) it may not slide smoothly in the rail on the back of the Cine Reflector.

The C-Wheel has protective padding added to the thread of the center mount to prevent it from jamming when opening it too much. In the rare case that the C-Wheel does jam, it will open with force by turning the Wheel clockwise. This won't harm the C-Wheel. In the rare occasion that the C-Wheel jams on the wedge, open the wedge with the allen key that comes with the spare safety wedge kit in the grip bag. The screw is fixed with a thread glue, it will open with a strong counterclockwise turn. The same applies should the safety wedge break. Open using the screw and replace the wedge

Safety tip! Always use the new screw that comes with the spare wedge when replacing a wedge. For safety reasons, there is no screw glue with the spare wedge. Please purchase screw glue (medium, color code blue), and apply according to its manual. Check the new screw after it has been used for a day to make sure it was tightened properly. Not using screw glue can result in the C-Wheel not functioning properly.

Should dust, sand or any other dirt get into the thread of the C-Wheel, open the wedge as written above, unscrew the wheel, clean the thread and reassemble (see above).

Safety tip! Do not force a mounted Cine Reflector into a new position without opening the grip attached to the C-Wheel. It can cause the safety wedge to break at the intended breaking point.



Video:
C-Wheel

2.C SPEEDBAGS, SLEEVES AND PADS

Our Speedbags are made from heavy duty Cordura with the following properties:

- Rugged - excellent resistance to abrasion
- Strong - excellent tear strength

- Water Repellent – breathable water repellent laminate

Should the Speedbags or any of our Cordura Bags get dirty, please wipe them down with a wet cloth and let them dry.

3. WARRANTY

Thank you for purchasing a Lightbridge product.

The following warranty applies to the Cine Reflect Lighting System, from The Light Bridge GmbH (alternatively Lightbridge). Excluded from this warranty are scratches, bumps and stains within the Cine Reflector surface due to handling or manufacturing processes.

In case you have not bought the products directly from Lightbridge, please contact the dealer where you purchased the products in any warranty case.

Please ensure that you keep your receipt as proof of purchase for the warranty to be valid: you will need to send us your receipt when you require service or repair of the product under warranty.

1. Duration of Warranty. The statutory warranty is valid for two (2) years or as otherwise required by applicable law in the country, state or region where the product is sold (if longer).

The warranty period starts from the delivery date indicated on the delivery note.

2. Warranty provisions. Lightbridge provides the purchasing party of its products (hereinafter: Purchaser) that during the warranty period defined below, Lightbridge will repair or replace its products lacking in material or workmanship that cause the product to malfunction, starting from the shipping date, according to the terms of this limited warranty.

- a) The warranty applies only to the Purchaser who purchases products directly from Lightbridge. The warranty right is not assignable or transferable to any subsequent Purchaser.
- b) Any repair or replacement of parts or the equipment itself does not extend the duration of the warranty period.
- c) The repair or replacement of the Product or the defective part acknowledged, does not include removal or re-installation activities, any incurred costs and expenses, including but not limited to labor costs.
- d) Unless local law in the country, state or region of purchase dictates otherwise, Lightbridge will under no circumstances be liable for any special incidental or consequential damages, including, but not limited to, personal injury, property damage, damage to or loss of equipment, lost profits or revenue, costs of renting replacements and other additional expenses, even if Lightbridge has been advised of the possibility of such damages.
- e)

No agent, distributor or dealer is authorized to change, modify or extend the terms of the limited warranty on behalf of Lightbridge.

3. Forfeiture of Warranty. The warranty is void and does not apply in the following cases:

- a) Products purchased as used, Ex-demo, Open box, or specified "as is", "as seen and approved," or other written form to indicate a state other than New in the sales contract.
- b) If there are defects, malfunctions or non-compliance arising from any force majeure, damage caused during transport, or by any abuse, misuse, abnormal use or use in violation of any standard, code or instructions of use applicable, including by way of example and by no way of limitation, those contained in the care and maintenance instructions accompanying the product and in the manual and warranty brochure.
- c) The warranty will be void if any repair or modification of the product is made by a person not duly authorized in writing by Lightbridge. In any case, Lightbridge reserves the right to make a definitive ruling on the validity of any warranty claims.

4. Request of Warranty. a) Any warranty claims in respect to any defect on finished products or spare parts, that the Purchaser has discovered or should have discovered during the inspection/testing upon reception of the goods, must be notified in writing via e-mail

to Lightbridge, within 7 days from the delivery date of the material. At any time after these terms it is considered that the Purchaser has accepted the product or replacement parts as "not defective." b) Requests of warranty notified by the Purchaser after the expiration of the warranty time will not be accepted.

5. Accomplishment of Warranty. a) If the request of warranty is notified to Lightbridge, and it is considered valid, in accordance with the terms herein, Lightbridge will accept and accomplish the warranty. Lightbridge can accomplish its warranty obligations in the following terms: 1) if Lightbridge has reason to believe that the Purchaser is technically able to repair the defect on site, and if necessary with the support of Lightbridge qualified technical support and customer service, Lightbridge will accomplish the warranty by providing the necessary spare parts; 2) if the Purchaser is not technically able to repair the defect, Lightbridge will repair the defective product or spare parts. 3) If it becomes necessary to replace the Product, Lightbridge assumes all ownership rights to such finished goods or spare parts replaced; replacement of products or spare parts will be: equivalent or substantially similar to the finished product or parts (which may change a little in design and technical specifications); new, as new or refurbished. 4) At the sole discretion of Lightbridge, where

none of the above remedies is applicable, Lightbridge can refund the Purchaser calculating the net purchase price paid for finished products or parts recognized as defective parts, less a reasonable depreciation in the value, variable by the duration of use or age.

The purchaser will be responsible for carefully packing and returning the product or the defective part(s) accompanied by proof of purchase to the official Lightbridge distributor in the country of purchase (up to date addresses can be found on the „Find a store“ page) or to the shop/store where the product was purchased. All shipping expenses are the purchaser's responsibility.



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office@thelightbridge.com

For more information:

www.thelightbridge.com

Have a good shooting day!

Your Lightbridge Team



LIGHTBRIDGE

Cine Reflect Lighting System

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