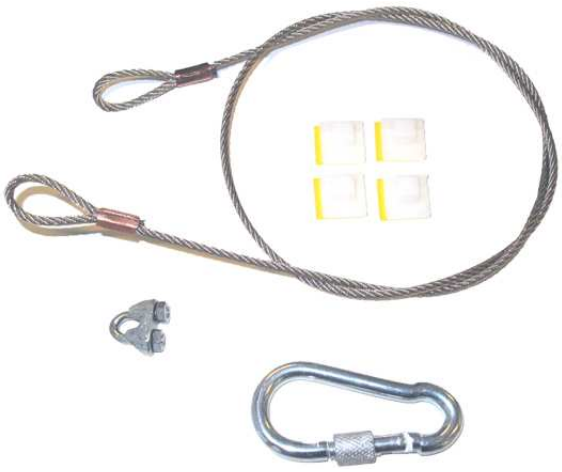
TLD+ Zoom Lens Safety Cable



Installation Manual

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The lens safety cable

1

When to use the safety cable?

The lens safety cable must be used in any circumstance where the projector is mounted above people. Do this to secure the mounted lens in the lens holder.

Why replace the existing safety cable?

Up until recently, all lenses for event projectors weighed 7 kg or less. The lens safety cable included with every events projector was able to secure every single lens available in the Barco gamma.

Due to the release of the TLD+ Ultra 0.8–1.16 lens, there are now lenses available that weigh more than 11 kg, which this safety cable can no longer support in a safe fashion.

In order to safely handle all lenses that are available, a new safety cable must be used, which is installed on the lens in a new fashion.

Content of the kit

- Safety Cable (750 mm, Ø3 mm)
- Cable clamp M4
- Shackle 7x70 mm
- 20 x Cable clip (16x16 mm, Ø4 mm)[1]

1: Only four pieces are needed to assemble the safety cable to a lens. When the safety cable is used on another lens, you should not remove the cable clips. Instead, use four new ones. There are enough cable clips in the kit to secure up to five different lenses.

Image 1-1

1.1 Configuration differences

Configuration differences

There are three different configurations for the safety cable. The configuration used depends on the used carrying handle or hoisting eye and on the length of lens used.

Configuration A applies to the following setups:

- All UDX projectors and variants, when connecting to the bottom bar of the rigging frame.
- All UDM projectors and variants, when connecting to the bottom bar of the rigging frame.
- All XDL projectors and variants.
- All HDX projectors and variants, when connecting to the bottom carrying handle.
- All HDF projectors and variants, when connecting to the bottom carrying handle.
- All RLM projectors

Configuration B applies to the following setups:

- All UDX projectors and variants, when connecting to the upper bar of the rigging frame.
- All UDM projectors and variants, when connecting to the upper bar of the rigging frame.
- All HDX projectors and variants, when connecting to the top carrying handle.
- All HDF projectors and variants, when connecting to the HDF hoisting eye.
- All RLM projectors

Configuration C applies to all projectors, but is only applicable for lenses with a very short barrel.

1.2 Mounting the safety cable to the lens

CAUTION: This procedure is only applicable for configurations A & B. For configuration C, see “Mounting the safety cable to a short barrel lens”, page 8.

How to mount the cable

1. Paste four cable clips on the lens as illustrated (reference 1). Orient the open side of the clips towards the front of the lens.

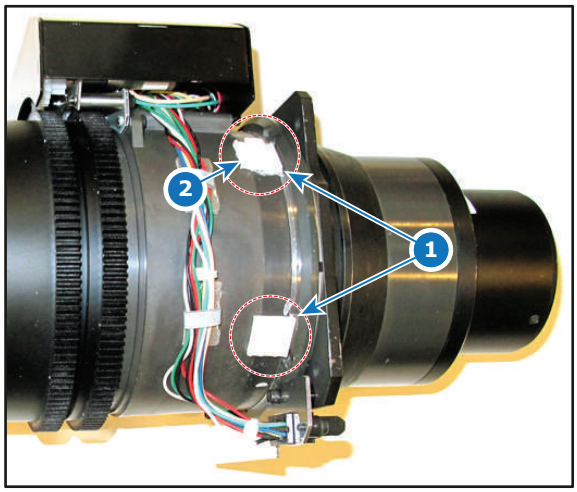

Image 1-2

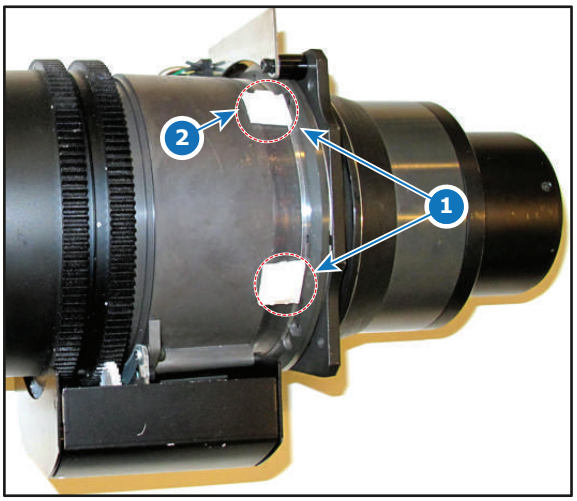

Image 1-3

2. Snap the first loop end of the safety cable into one of the following clips and let the loop end point downwards.
   1. Configuration A: Use the upper clip on the side of the cable bundle (reference 2, Image 1-2).
   2. Configuration B: Use the upper clip on the non-wired side (reference 2, Image 1-3).
3. Slide the rest of the cable around the lens counterclockwise. Click the cable into every clip it passes in this loop.

   Note: Make sure the cable passes between the lens and the cable bundle.

4. Slide the cable through the loop end at the beginning of the cable.

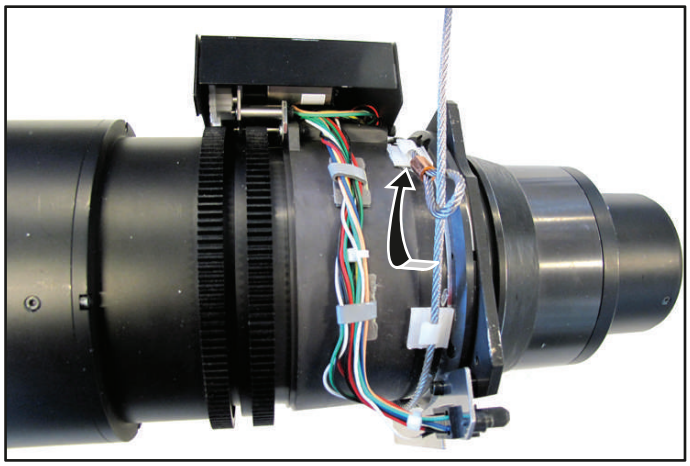

Image 1-4: Example of configuration A

5. Install a U-bolt on the lens holder, with the open ends oriented outwards (reference 3). Make sure that both a part of the loop end and the outgoing part of the safety cable are placed in the enclosure.

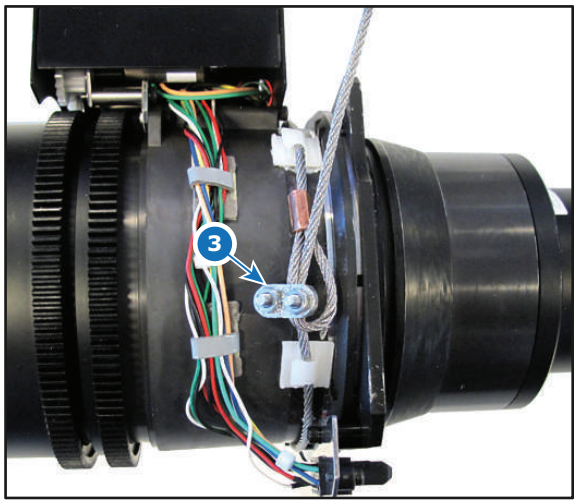

Image 1-5: Example of Configuration A

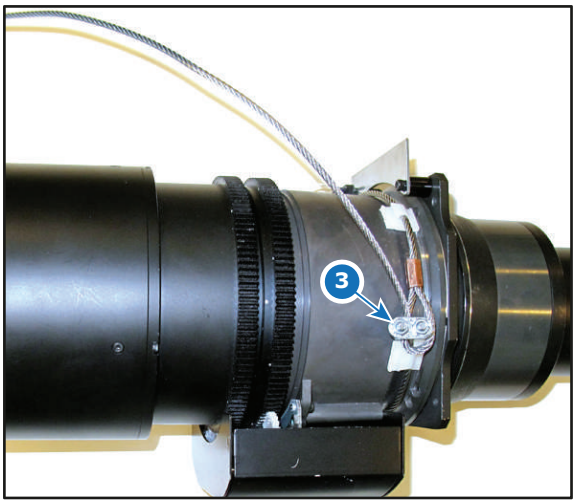

Image 1-6: Example of Configuration B

6. Close the U-bolt and tighten it.

   Note: Make sure the safety cable is tightened around the lens before tightening the U-bolt nuts.

7. Place the shackle through the free loop end of the safety cable.

1.3 Mounting the safety cable to a short barrel lens

CAUTION: This procedure is only applicable for Configuration C. For configurations A & B, see “Mounting the safety cable to the lens”, page 6.

How to mount the cable

1. Paste two cable clips on both sides of the lens as illustrated (reference 1). Orient the open side of the clips towards the outside of the lens.

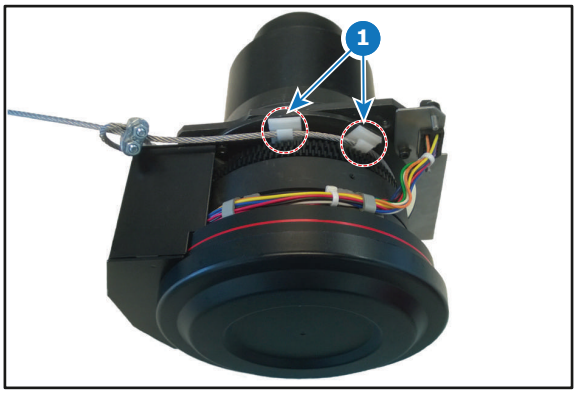

Image 1-7

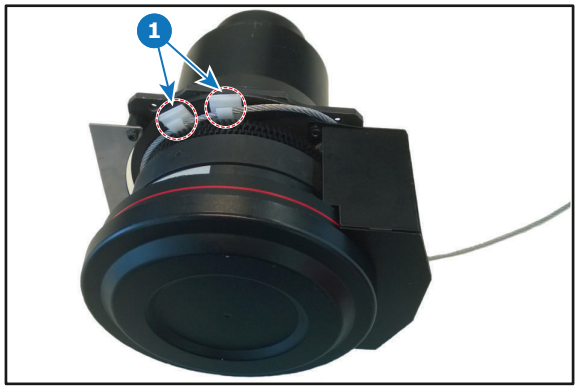

Image 1-8

2. Paste two extra cable clips on the motor block of the lens. Orient the open side to the outside of the lens.

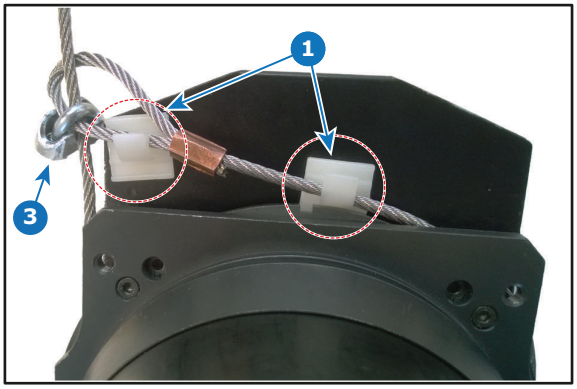

Image 1-9

3. Carefully slide the safety cable through the cable clips. Make sure the cable is placed between the motor block and the cover plate.
4. Slide the cable through the loop end at the beginning of the cable.
5. Mount a U-bolt on the cable, with the open ends oriented outwards (reference 3, Image 1-9). Make sure that both a part of the loop end and the outgoing part of the safety cable are placed in the enclosure.
6. Close the U-bolt and tighten it.

   Note: Make sure the safety cable is tightened around the lens before tightening the U-bolt nuts.

The result should look similar to the following example.

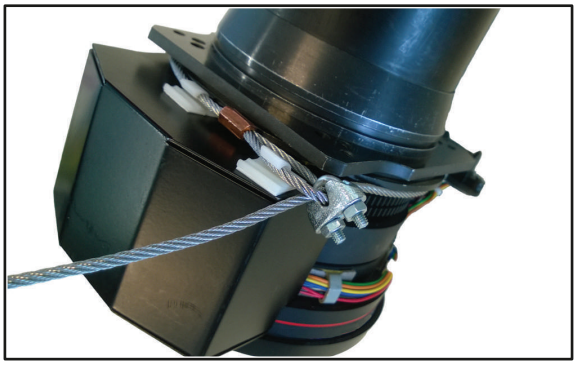

Image 1-10

1.4 Installing the lens with safety cable on an HDX, UDX or UDM projector

This procedure assumes you know how to install a lens into the projector. If not, refer to the installation manual of the projector.

How to install on HDX, UDX and UDM projectors

1. Place the lens in the lens holder, using the lens locking mechanism.

   Caution: Always make sure the lens is really secured by trying to pull the lens out of the lens holder.

2. Lead the cable end with the shackle around one of the following carrying handles or rigging frame bar:
   - Configuration A: Around the bottom carrying handle or rigging frame bar.
   - Configuration B: Around the top carrying handle or rigging frame bar.
   - Configuration C: Around the top carrying handle or rigging frame bar.
3. Snap the shackle to the straight part of the cable.
4. Secure the shackle by screwing the safety ring of the shackle over the open end.

Image 1-11: Example using the bottom carrying handle on an HDX

Image 1-12: Example using the top carrying handle on and HDX

1.5 Installing the lens with safety cable on an XDL projector

This procedure assumes you know how to install a lens into the projector. If not, refer to the installation manual of the projector.

Required tools

Allen wrench 10 mm

Required parts

XDL safety cable bracket kit

How to install on XDL projectors

1. Make sure the transport protection bars are removed from the projector. If not, refer to the installation manual of the projector.
2. Mount the lens safety cable bracket onto the projector frame. Mount it on the place where the transport protection bar used to be. Use a 10 mm Allen wrench.

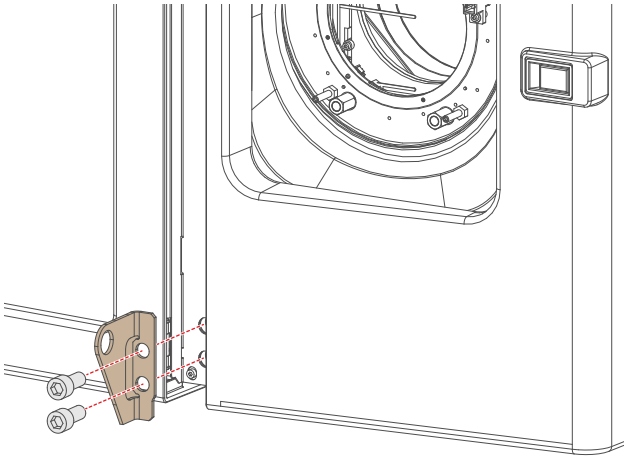

Image 1-13

3. Place the lens in the lens holder, using the lens locking mechanism.

   Caution: Always make sure the lens is really secured by trying to pull the lens out of the lens holder.

4. Snap the shackle through the fixation ring of the safety cable bracket.
5. Secure the shackle by screwing the safety ring of the shackle over the open end.

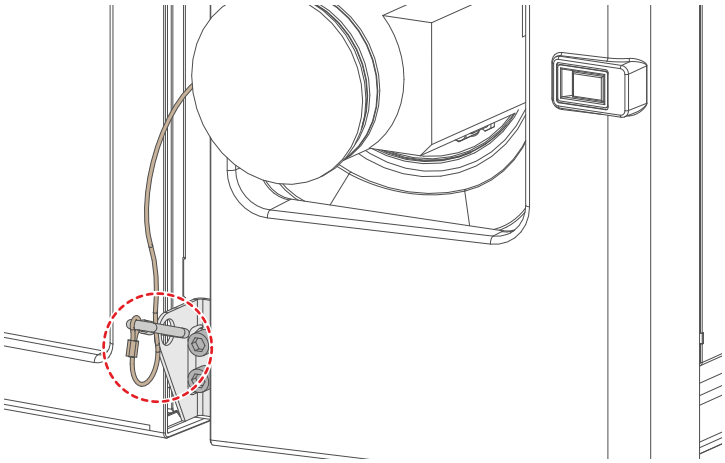

Image 1-14

1.6 Installing the lens with safety cable on an HDF projector

This procedure assumes you know how to install a lens into the projector. If not, refer to the installation manual of the projector.

How to install on HDF projectors

1. Place the lens in the lens holder, using the lens locking mechanism.

   Caution: Always make sure the lens is really secured by trying to pull the lens out of the lens holder.

2. Lead the cable end with the shackle around one of the following carrying handles:
   - Configuration A: Around the bottom carrying handle.
   - Configuration B: Through the front hoisting eye on the top plate.
   - Configuration C: Around the bottom carrying handle or the front hoisting eye on the top plate.

   Tip: Temporarily remove the shackle to allow the cable to slide through the hoisting eye.

3. Snap the shackle to the straight part of the cable.
4. Secure the shackle by screwing the safety ring of the shackle over the open end.

Image 1-15: Example using the bottom carrying handle

Image 1-16: Example using the hoisting eye

1.7 Installing the lens with safety cable on an RLM projector

This procedure assumes you know how to install a lens into the projector. If not, refer to the installation manual of the projector.

How to install on RLM projectors

1. Place the lens in the lens holder, using the lens locking mechanism.

   Caution: Always make sure the lens is really secured by trying to pull the lens out of the lens holder.

2. Snap the shackle through the fixation ring near the lens opening.
3. Secure the shackle by screwing the safety ring of the shackle over the open end.

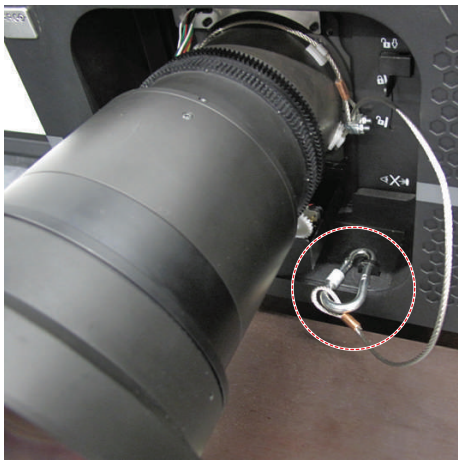

Image 1-17: Example using the fixation ring

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