Even though the use of the LumaCon is self-explanatory, please read the underneath carefully.

Make sure the projector does not touch the front of the lens. This risk is bigger when the "Macro extender" is applied.

Do not move the projector by hand nor block the projector while it is moving.

Use the included PC only for the LumaCon. The PC is optimized for the software, other use will affect the performance.

If applicable use the lens-support to release the lens from weight-related stress

Menu guide

Software version 1.0.3
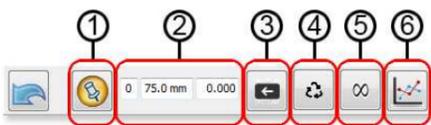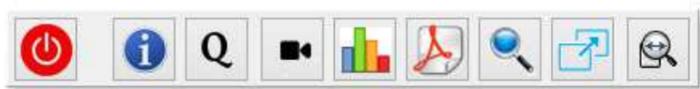
① Store the value   ④ Reset measurement
② Measurement-values   ⑤ Goto ∞
③ Remove last measurement   ⑥ Draw graph
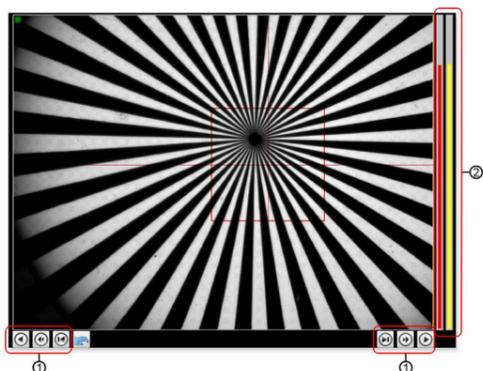
① Move the projector
② Contrast indicator, horizontal (red) & vertical (yellow)
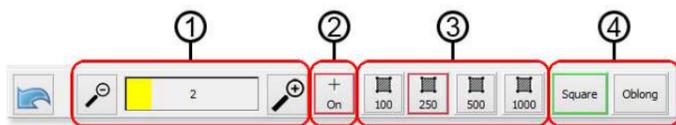
① Software zoom on the picture
② Crosshair on/off
③ Determines the size (H/V) of the measurement
④ Set the shape of the measurement area

Generate an evaluation report (in pdf format). The filename is preset to the current time & date
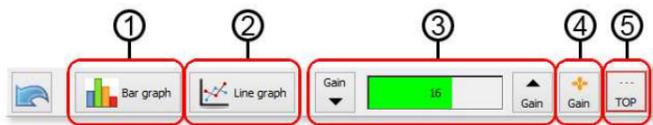
① & ② Type of graph; "bar graph" or "line graph"
③ Manual setting of the graph-gain
④ Momentary graph-gain
⑤ Turn the "top-line" on-off
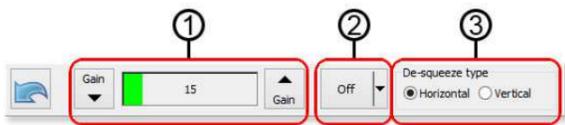
① Manual setting of the camera gain
② Anamorphic de-squeeze, choice of: off/1.3x/2.0x
③ Make the de-squeeze a horizontal- respectively a vertical fit
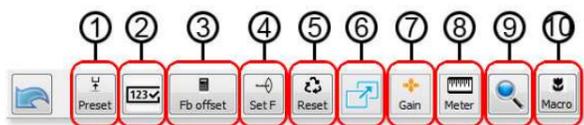
① Preset focus distances	⑥ Go to full screen mode
② Manual input of focus distances	⑦ One-shot graph gain
③ Calculate the Fb offset @ the focal length	⑧ Switch between metric & feet
④ Set the focal length of the lens under test	⑨ Zoom menu
⑤ Reset the Fb offset	⑩ Macro option

Bank 1
Bank 2

120'	60'	40'	30'	25'	20'	17'	15'	13'	12'
11'	10'	9'	8.6'	8'	7.6'	7	6.6'	6'	5.6'
5'	4.9'	4.6'	4.3'	4'	3.9'	3.6'			
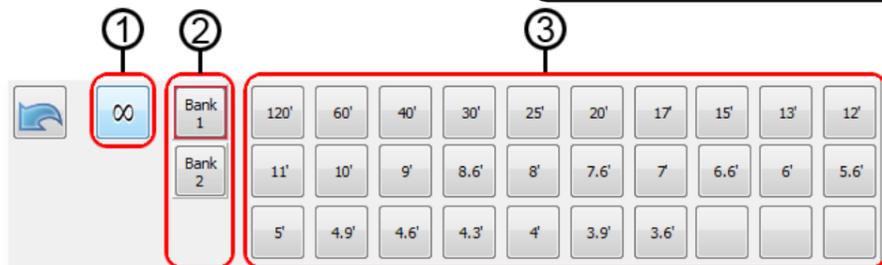
① Go to the ∞ position (a field lens is required)
② Select the memory bank
③ Preset focus positions, depending on the feet- or meter setting presets can be selected

LumaCon lineair collimator
test version 0.0.0m dd 30-5-2015, (c) Luma Tech inc. 2015

LOG

Information about the software version.
① Generate a "log" file for support purposes

Shutdown

Switch of the software

Screen guide
Software version 1.0.3

① Exposure indicator, use the dimmer to correct

RED	over exposure
Green	correct exposure
Yellow	under exposure

④ Graphical representation of the H & V-contrast values. This can be a line- or a bar-graph

② Active measurement area

③ Current value

⑤ Visualisation of the measurement

⑨ The (up-to now) highest H- & V contrast values

⑥ Cross-hair

⑩ Numerical representation of the H & V-contrast values and the difference.

⑦ Menu

⑪ Move the projector (enlarge focal-distance)

⑧ Move the projector (shorten focal-distance)

⑫ Stop projector movement

⑬ The macro option is installed
⑭ Current focal- distance

⑮ Focal-distance indicator

⑰ Focal length of the lens under test
⑱ Calculated Fb offset
⑲ Anamorphic indicator (1.3 or 2.0x)

⑯ Position of the projector, the lower half is the coarse setting, the upper half is the fine setting

Identifier
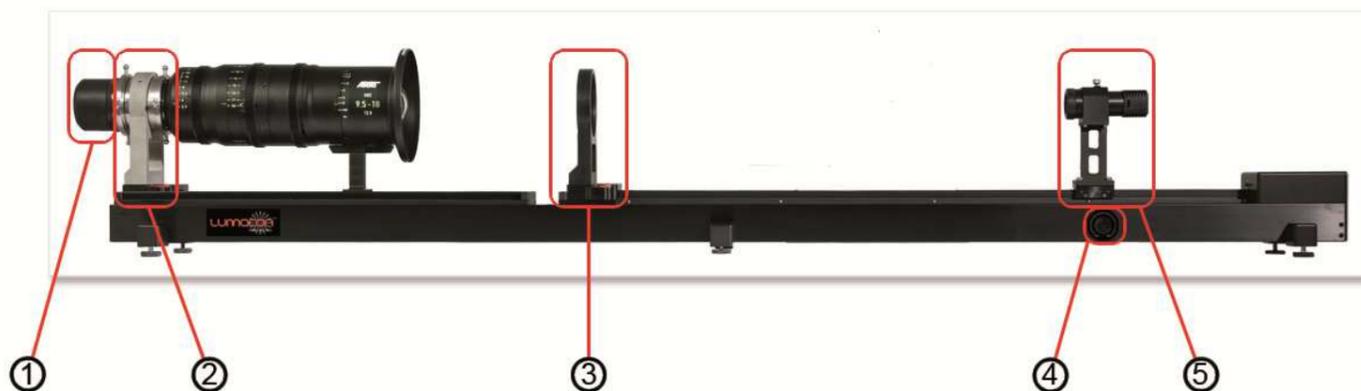
① Camera / focal plane microscope

② Lens mount

③ Field lens

④ Dimmer

⑤ Projector with target

For the electrical connections, simply connect the different connectors according to their color (blue to blue etc.)

Iiyama T1531 monitor

HP t730 Personal computer

① Monitor connection

② USB connectors

③ Power connector

①USB (to PC)   ② PC connection   ③ Mains connection

Power supply (to PC)

LumaCon rear-view

① Power supply   ④ To light-source   ⑤USB (to camera)

② & ③ USB (to PC)

Power supply (to LumaCon)

② The field-lens can be slid on- & off the rail

① Installing the lens-mount

③ Assembling the light-source

4x

- Release the 2 hex-screws that hold the end-locking in place
- Slide the mount onto the rail
- Reinstall the end-locking and the 2 hex-screws.

- Mount the housing on the actuator using the 4 hex-screws
- Slide the light-source into the housing
- Secure the light-source in the housing using the top-screw
- In the front of the housing you can apply the different targets

For the electrical connections, simply connect the different connectors according to their color (blue to blue etc.)

Iiyama T1531 monitor

HP t820 Personal computer
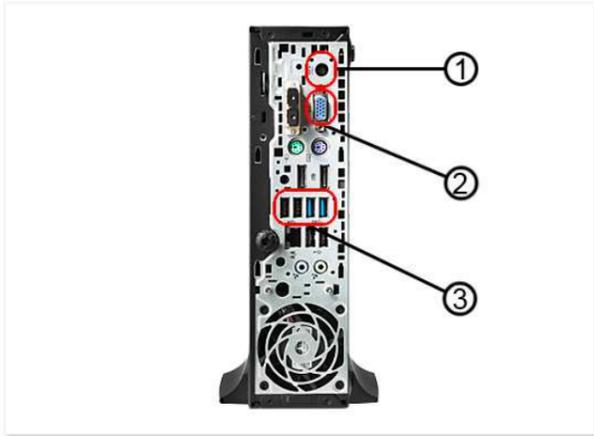
① Power connector

② Monitor connection

③ USB connectors

① USB (to PC)　② PC connection　③ Mains connection

Power supply (to PC)

LumaCon rear-view

① Power supply　④ To light-source　⑤ USB (to camera)

② & ③ USB (to PC)

Power supply (to LumaCon)
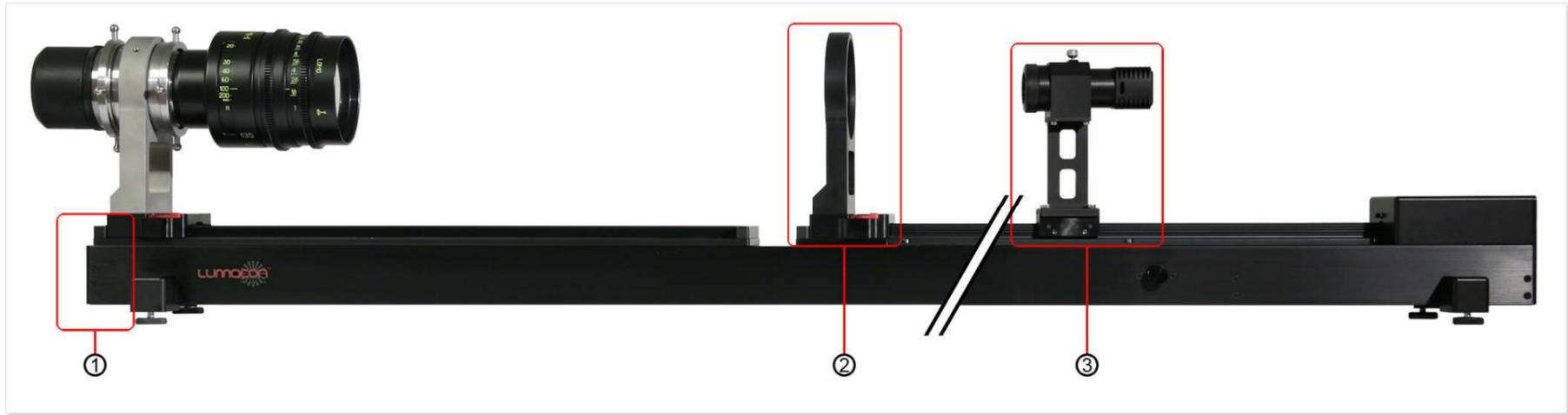
② The field-lens can be slid on- & off the rail

① Installing the lens-mount
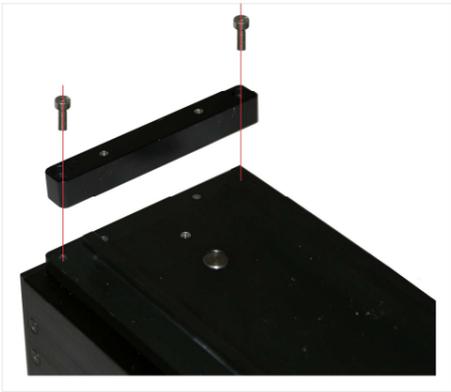
- Release the 2 hex-screws that hold the end-locking in place
- Slide the mount onto the rail
- Reinstall the end-locking and the 2 hex-screws.

③ Assembling the light-source

4x

- Mount the housing on the actuator using the 4 hex-screws
- Slide the light-source into the housing
- Secure the light-source in the housing using the top-screw
- In the front of the housing you can apply the different targets