Light Ranger 2

Critical Focus for the Digital World

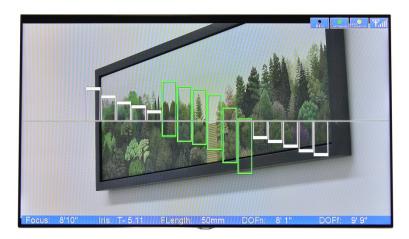
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The Light Ranger 2† simultaneously measures distances along 16 horizontally arranged detection zones. The distance measurements allow for high precision manual as well as autofocus operation. The companion video interface unit generates graphic overlays for the focus puller's monitor.

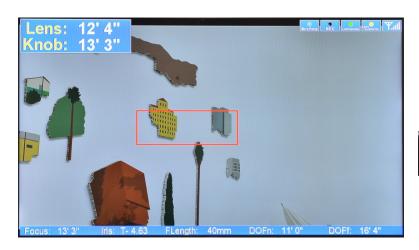




• In manual focus mode, the subject distances are represented by an array of rectangles, each rectangle representing one of the sixteen detection zones and overlaying the corresponding area of the image where depth is measured. The height of the rectangle above or below the center line represents whether the subject is in front of, behind, or within the lens depth of field (DOF). Subjects within the DOF are identified with green rectangles, otherwise the rectangles are white.



†US patent applied for.





tincreases/decreases focus zones

← Shifts AF rectangle horizontally

To make a smooth change from autofocus to manual mode, first match the distance setting shown for the focus knob "Knob" to the current "Lens" setting, and then exit autofocus mode using the HU3 softkey.

• The **Basic Range** mode shows distances from the camera image plane to subjects within the field of view of the LR2. The height of the vertical bars indicates distance graphically, while the digits beneath each bar show the distance numerically.



Preliminary Specifications*

LR2 System comprises:

• Light Ranger 2 sensor

• LR2 Video Overlay Unit

Operation requires the HU3 and MDR3 components of the FI+Z system.

1. LR2 ranging module

Operating Range 1' to > 40' Horizontal angle of view: 18° Vertical angle of view: 3° Number of detection zones: 16

Emission type/ wavelength: LED/ 970nm (typ.)

Eye Safety: IEC 62471-2006 exempt lamp classification

Size: 5 ½ x 3 ¼ x 1 inches

Weight: 550g Power: 10-32VDC Mounting: ¼-20

2. LR2 Video Overlay Unit with G4 wireless link

Size: 4.5 x 5.5 x 1.4 inches

Power: 12VDC Weight: 450g

Video Inputs/Outputs

1 x HD-SDI

1 x HDMI

Wireless Transceiver: G4

Parallax Range: ±20 inches (50cm)

Calibration: Menu driven, using focus target or manual offset entry.

Monitor graphics are scaled and positioned according to the LR2 and HU3 menu selections:

- o Camera sensor size
- o LR2 mounting offsets
- o Lens focal length per HU3 lens library
- o Focus distance

^{*} The specifications listed are preliminary and subject to change.