


**product introduction**

The all metal construction of the Ring Light Series of lights provides a small particle resistant and all around durable light. Its simple plug and play 5 Pin M12 connector allows for ease of use while its eight high current LEDs provide an intense and diffuse light pattern. Able to connect directly to the Keyence controller. A standard 42 mm inner hole diameter allows for use with nearly all camera systems with available step-up and step-down conversion kits adapters.



**product features**


- Direct-Connect to Keyence Controller
- Standard wide lenses included – narrow available
- Available wavelength range from 365nm to 940nm
- Eight, 1mm<sup>2</sup> Die High Current LEDs


**product number key**

## KEY-R130 – XXX – X\* —» Part Number Key

**Product Family:**  
Ring Light  
Keyence Series

**Color:**  
365, 395, 470, 505,  
530, 625, 850, 940  
& WHI (White)

**Lenses:**  
N - Narrow

\* Lights come standard with Wide lenses  
CE and RoHS Compliant


**mounting & accessories**

Standard industrial T-slots on each side accept T-nuts



Front mounting of Lens to Ring Light



Rear mounting of Lens to Ring Light





## warnings

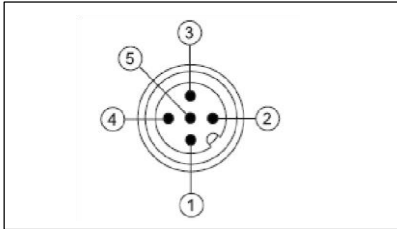


### Attention

A total of eight LEDs in the KEY-R130. Two parallel strings of four LEDs.  
No LED protection – Do not apply an unregulated current source to LEDs.



## wiring configuration



| Function            | Wire Color |
|---------------------|------------|
| 1 – N/C             | N/C        |
| 2 – N/C             | N/C        |
| 3 – LED (-) Cathode | BLUE       |
| 4 – LED (+) Anode   | BLACK      |
| 5 – N/C             | N/C        |



## risk group

According to IEC 62471:2006. Full documentation upon request.

### Notice

Exempt Group: No photobiological hazard to eyes or skin even for continuous, unrestricted use.  
Applicable for wavelengths: 625, 850, and 940.

### Caution

Risk Group 1: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to eye. Safe for most applications except prolonged exposures.  
Applicable for wavelengths: 395, 470, 505, 530, and WHI.

### Notice

Risk Group 1: UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding. Safe for most applications except prolonged exposures.  
Applicable for wavelengths: 395

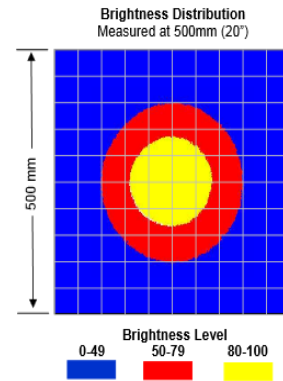
### Caution

Risk Group 2: UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding. Does not pose optical hazard if aversion responses limit exposure.  
Applicable for wavelengths: 365



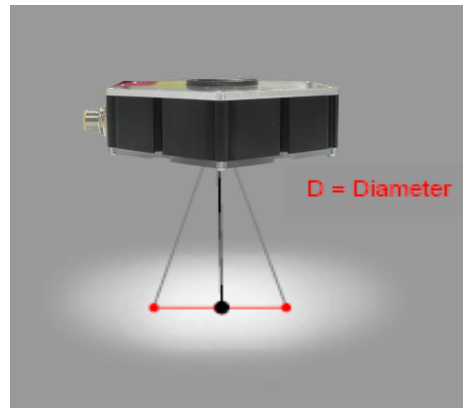
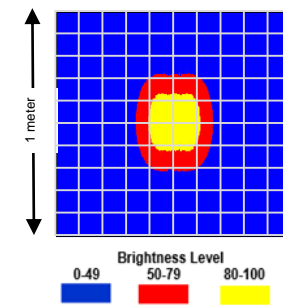
### KEY-R130-XXX

| Working Distance<br>mm (inches)                               | Pattern (80%-100% measured intensity)<br>mm (Inches) |
|---|--|
| .25m (10")  | 150mm (~6") D  |
| .5m (20")   | 250mm (~10") D                                       |
| .75m (30")  | 350mm (~14") D                                       |
| 1m (40")  | 450mm (~18") D                                       |
| Typical output performance                                    |  |
| Distance = .5 meter   | Illumination (Lux)<br>5000                           |
| <i>Illumination measurement taken on White Lights – 6500K</i> |  |



### KEY-R130-XXX-N

| Working Distance<br>mm (inches)                               | Pattern (80%-100% measured intensity)<br>mm (Inches) |
|---|--|
| .25m (10")  | 90mm (~3.5")   |
| .5m (20")   | 120mm (~4.7")  |
| .75m (30")  | 160mm (~6.3")  |
| 1m (40")  | 220mm (~8.6")  |
| Typical output performance                                    |  |
| Distance = .5 meter   | Illumination (Lux)<br>14000                          |
| <i>Illumination measurement taken on White Lights – 6500K</i> |  |





### Standard Adapter Kit – Part # SU46-25.5-27

Adapter Kit includes 2 step up rings (25.5 and 27), 6 set screws and hex tool. 6 set screws – 3 for mounting step up ring to light and 3 additional for lens. Some locking thumbscrews may prevent the lens from fitting through the center of the R80, extra low-profile replacement set screws are included, allowing the protruding thumbscrews to be removed.



### Step Up Adapter Kits

Step Up Adapter Kits includes step up rings, 6 set screws and hex tool. Lenses can be mounted to front or back of ring light. Filters can also be installed.



| M46 step-up | Lens thread size | Part #       |
|-------------|------------------|--------------|
| 46-         | 25.5             | SU46-25.5/27 |
| 46-         | 27               | SU46-25.5/27 |
| 46-         | 30.5             | SU46-30.5    |
| 46-         | 34               | SU46-34      |
| 46-         | 37               | SU46-37      |
| 46-         | 37.5             | SU46-37.5    |
| 46-         | 39               | SU46-39      |
| 46-         | 40.5             | SU46-40.5    |
| 46-         | 43               | SU46-43      |

### Step Down Adapter Rings

Step Down rings mount large lenses to light. Step Down rings mount lenses to back of ring light. Filters can also be installed.



| M46 step-down | Lens thread size | Part #  |
|---------------|------------------|---------|
| 46-           | 49               | SD46-49 |
| 46-           | 52               | SD46-52 |
| 46-           | 55               | SD46-55 |
| 46-           | 58               | SD46-58 |
| 46-           | 62               | SD46-62 |
| 46-           | 67               | SD46-67 |
| 46-           | 72               | SD46-72 |