

# AOI Light AOI Series

|                    |                         |
|--------------------|-------------------------|
| 3LINH              | Line scan illumination  |
| 3LNL               |                         |
| 3LIN               |                         |
| 2LINS              |                         |
| 2LIN               |                         |
| 2COXL              |                         |
| 2LINM              |                         |
| SDL                |                         |
| STL                | Structured light        |
| RN                 |                         |
| RNH                |                         |
| SRN                |                         |
| HPR                |                         |
| FPR                |                         |
| DML                |                         |
| LFR                |                         |
| 3DM                |                         |
| 2DM                |                         |
| LFX                |                         |
| FPQ                |                         |
| RIH                |                         |
| DL                 |                         |
| 3BRH               |                         |
| 2BR                |                         |
| 2BRS               |                         |
| 2BRM               |                         |
| 3COH               |                         |
| 3CON               |                         |
| COXR               |                         |
| 3COX               |                         |
| COPA               |                         |
| HSL                |                         |
| 2SL                |                         |
| SL                 |                         |
| RNMU               | Mult-angle illumination |
| AOI                |                         |
| 2FTB/<br>2FTR      |                         |
| FTC                |                         |
| 2FT/<br>3FT        |                         |
| 2PFT/<br>3PFT      |                         |
| LIP                |                         |
| IP                 | Waterproof illumination |
| IR                 | Infrared light          |
| UV                 | Ultraviolet light       |
| Customezd<br>light | Customezd<br>light      |
| PS                 |                         |
| PD                 |                         |
| 2DRC               |                         |
| 3STU               |                         |
| APC                |                         |
| DPC                |                         |
| 2APC               |                         |
| DPA                |                         |
| 2ACC               |                         |
| 2DPC               |                         |
| Area<br>scan       |                         |
| Line<br>scan       | Lenses                  |
| Controller         |                         |

- ◆ Adopted high luminance straight-through LED, equally distribution.
- ◆ With multiple angle, can control the luminance independently. Used in various applications.
- ◆ Can be customized for different installation methods and lamp bead angles.

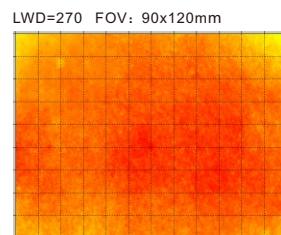
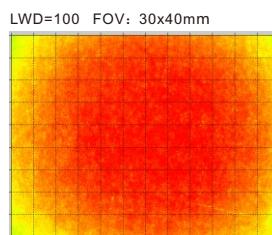
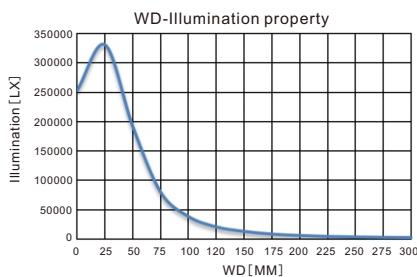
Applications Mobile glass screen scratch inspection/ silicon seal defect inspection/ PCB tin soldering inspection/ battery tin soldering point inspection



Illumination property diagram

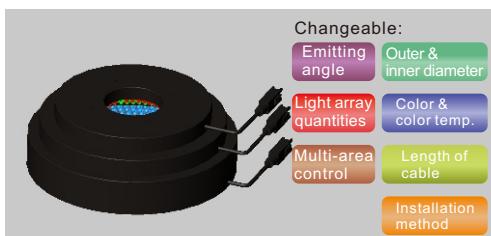
Uniformity (Relative irradiance)

Model: LTS-AOI160-RGB



\*Above diagram only for reference.

→ Customized



→ Imaging instance: PCB soldering point inspection

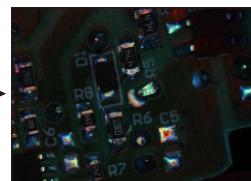


|             |                                |
|-------------|--------------------------------|
| Content     | PCB soldering point inspection |
| Workpiece   | PCB                            |
| Light model | LTS-AOI160-RGB                 |
| Result      | obvious tin soldering          |

■ Workpiece photograph



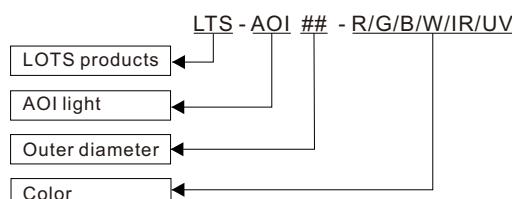
■ LTS-AOI160-RGB



PCB soldering point inspection

Inspect the defect through the color change.

→ Coding rule



<http://www.lotsmv.com>

Customized color

On-site technical support

Sample free rent service

# AOI Light

## AOI Series

### → Light parameters

| Product   | Model        | Voltage | Power | Color       | Peak wavelength / color temperature                                                          | Weight | Option | Adapted controller                                                                | Dimen-sion | Com-mon | Remark                    |
|-----------|--------------|---------|-------|-------------|----------------------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|------------|---------|---------------------------|
| AOI light | LTS-AOI60    | 24V     | 1.7W  | (R) (W)     | Red: 620-630nm<br>Green: 525-530nm<br>Blue: 465-470nm<br>White: 6600K<br>(color temperature) | 165 g  | —      | Strobe controller (P146)<br>Analog controller (P152)<br>Digital controller (P159) | 1          | N       | With area scan inspection |
|           | LTS-AOI80    | 24V     | 4.8W  | (UV) (W)    |                                                                                              | 175 g  |        |                                                                                   | 2          | N       |                           |
|           | LTS-AOI100   | 24V     | 4.3W  | (R) (W)     |                                                                                              | 729 g  |        |                                                                                   | 3          | Y       |                           |
|           | LTS-AOI160   | 24V     | 28W   | (R) (G) (B) |                                                                                              | 1215 g |        |                                                                                   | 4          | Y       |                           |
|           | LTS-AOI180   | 24V     | 26W   | (W)         |                                                                                              | 1760 g |        |                                                                                   | 5          | N       |                           |
|           | LTS-AOI275   | 24V     | 61.2W | (W)         |                                                                                              | 2397 g |        |                                                                                   | 6          | N       |                           |
|           | LTS-RNBRH280 | 24V     | 62.4W | (R) (G) (B) |                                                                                              | 6500 g |        |                                                                                   | 7          | N       | With line scan inspection |

\* UV & IR light can be customized as required.

★ 1) Operating environment: Temperature 0-50°C,  
Humidity 20-85% (Non-condensation)

2) Life-span: 50000h (Reduce 50% luminance of factory default)

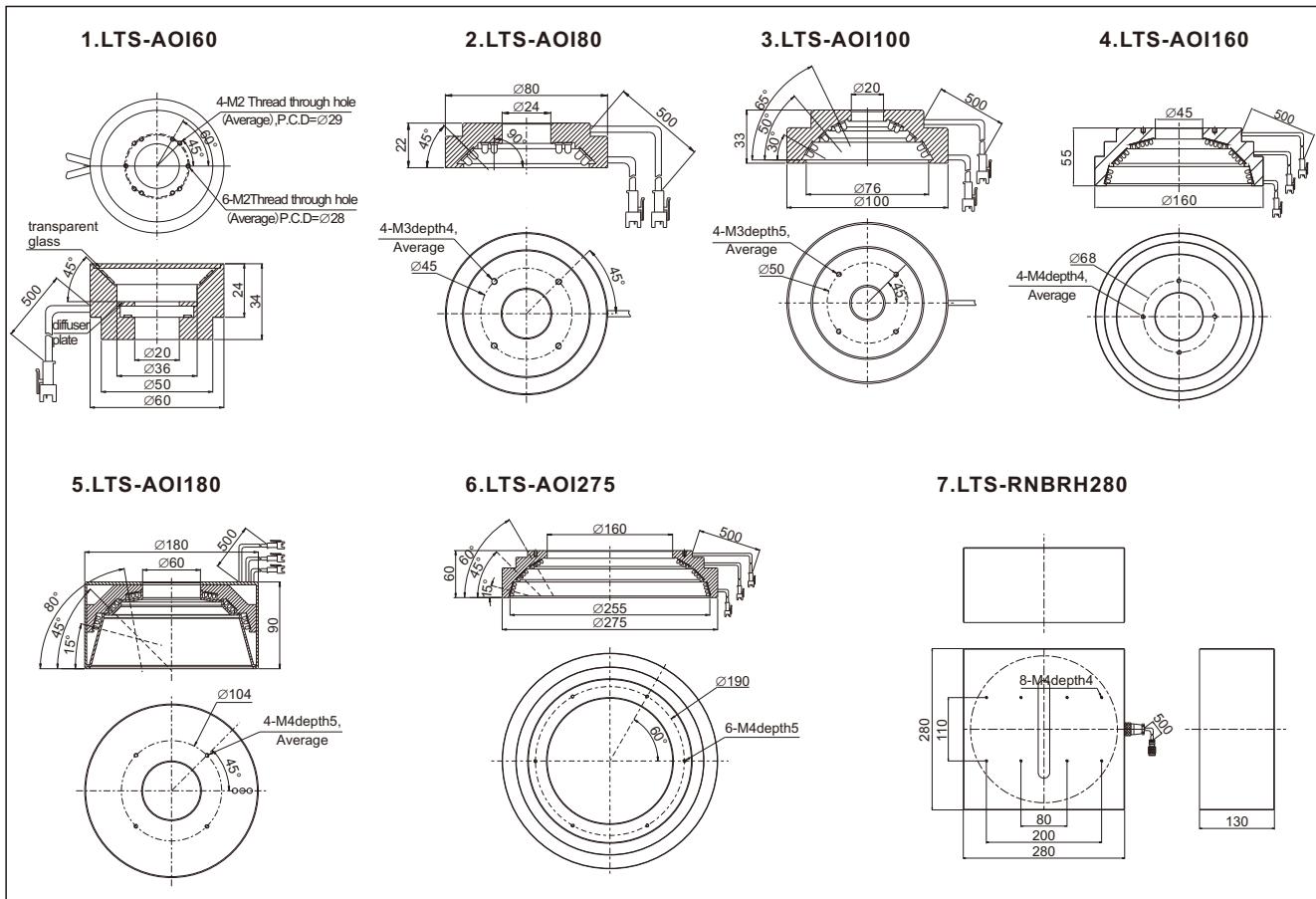
3) Value-added service: One year free technical support, sample free rent

※ 1) PVC extension cable: high flexibility, bending resistance, high temperature resistance, apply to use inside of device.

2) High flexibility extension cable: harder and more abrasive resistance than PVC, apply to drag chain system production line.



### → Boundary dimension(mm)



|            |                        |
|------------|------------------------|
| 3LINH      | Line scan illumination |
| 3LINL      |                        |
| 3LIN       |                        |
| 2LINS      |                        |
| 2LIN       |                        |
| 2COXL      |                        |
| 2LINM      |                        |
| SDL        |                        |
| STL        | Structured light       |
| RN         | Ring illumination      |
| RNH        |                        |
| SRN        |                        |
| HPR        |                        |
| FPR        |                        |
| DML        |                        |
| LFR        |                        |
| 3DM        |                        |
| 2DM        |                        |
| LFX        |                        |
| FPQ        |                        |
| RIH        |                        |
| DL         |                        |
| 3BRH       |                        |
| 2BR        |                        |
| 2BRS       |                        |
| 2BRM       |                        |
| 3COH       |                        |
| 3CON       |                        |
| COXR       |                        |
| 3COX       |                        |
| COPA       |                        |
| HSL        |                        |
| 2SL        |                        |
| SL         |                        |
| RNMU       |                        |
| AOI        |                        |
| 2FTB/2FTF  |                        |
| FTC        |                        |
| 2FT/3FT    |                        |
| 2PFT/3PFT  |                        |
| LIP        |                        |
| IP         |                        |
| UV         |                        |
| Customized |                        |
| PS         |                        |
| PD         |                        |
| 2DRC       |                        |
| 3STU       |                        |
| APC        |                        |
| DPC        |                        |
| 2APC       |                        |
| DPA        |                        |
| 2ACC       |                        |
| 2DPC       |                        |
| Area scan  |                        |
| Line scan  |                        |
| Lenses     |                        |

