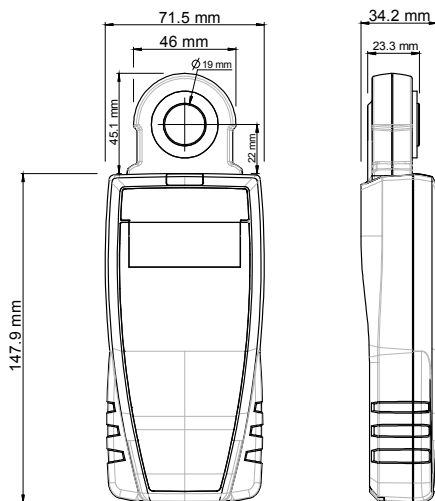


Luxmeter LX 50

KEY POINTS

- Easy to use
- Built-in probe
- HOLD function
- Auto shut-off: 20 minutes

FEATURES OF THE HOUSING



Material: ABS

Protection: IP54

Display: 2 lines, LCD technology, 50 x 36 mm.
1 line of 5 digits with 7 segments (value)
1 line of 5 digits with 16 segments (unit)

Height of digits:
Values: 9.2 mm
Units: 4.7 mm

Weight: 200 g (with batteries)



TECHNICAL FEATURES

| Parameters | Light |
|---------------------------------------|--|
| Measuring units | lux, klux, fc |
| Measuring range | From 0 to 10000 lux / From 0 to 929 fc |
| Accuracy* | ±3% of reading or ±3 lux |
| Resolution | From 0 to 999.9 lux: 0.1 lux / from 1000 to 10000 lux: 1 lux From 0 to 0.9999 klux: 0.0001 klux / from 1 to 10 klux: 0.001 klux From 0 to 99.99 fc: 0.01 fc / from 100 to 929 fc: 0.1 fc |
| Measuring element | Silicon Photodiode |
| Directional sensitivity (f2)** | <6% |
| Linearity (f3)** | <3% |
| Conditions of use (°C/%HR/m) | From 0 to +50°C. In non-condensation condition. From 0 to 2000 m. |
| Storage temperature | From -10 to +70°C |
| Power supply | 4 batteries AAA LR03 type 1.5 V |
| Autonomy | 20 hours |
| European directives | 2014/30/EU EMC; 2014/35/EU Low Tension; 2011/65/EU RoHS II; 2012/19/EU WEEE |

* All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation
** The f2 and f3 coefficient are defined according to the French NF C 42-710 standard.

ORDER OF MAGNITUDE OF LUX ACCORDING TO APPLICATIONS

| Environment | Lux | Environment | Lux |
|------------------------------|-----------------|--------------------------------|--------------|
| Outside with open air | 500 to 25000 | Factory: electronic assembling | 1500 to 3000 |
| Outside with direct sunlight | 50000 to 100000 | Hotel reception hall | 200 to 500 |
| Full moon night | 1 | Shop | 750 to 1500 |
| Overnight lit street | 20 to 70 | Hospital operating room | 750 to 1500 |
| Apartment well lit | 200 to 400 | Classroom | 200 to 750 |

FACTOR VALUE ACCORDING TO THE LIGHT SOURCES

The following table indicates the factor value corresponding to different light sources with their examples. The device is adjusted with an incandescent standard white light source owning its own spectral response. The following lighting sources can be measured by the LX50 and have a different spectral response. Therefore, the presented coefficients in the following table enable to correct the measurement according to these different sources. The correction is carried out by multiplying the measured value by the F factor : Corrected value = F x measured value.

| Source | F factor | Source | F factor |
|--|----------|--|----------|
| Fluorescent tube with three bands | 1.346 | Rare-earth metal halide lamp | 1.013 |
| High pressure mercury lamp | 1.437 | White led : neutral colour | 1.121 |
| Sodium vapour lamp | 1.401 | Halogen quartz lamp / tungsten (standard source) | 1 |
| Metal halide lamp with three additives | 1.237 | | |

SUPPLIED WITH

Instruments are supplied with an adjustment certificate and a soft case.



ACCESSORIES

- Calibration certificate
- Soft case
- Magnetic protective housing



Only the accessories supplied with the device must be used.



MAINTENANCE

We carry out calibration, adjustment and maintenance of your instruments to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry out a yearly checking.

GUARANTEE

Instruments have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

PRECAUTIONS FOR USE

Please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.

USE OF THE INSTRUMENT

Take a measurement

- Switch on the instrument by pressing on **"On/Off/Hold"**.
The instrument displays its name "LX50", then the measured value.

Hold the measurement

- During measurement:*
- Press briefly on **"On/Off/Hold"** to hold measurement.
"Hold" appears on the screen and temperature and light measurements are fixed.
 - Press briefly on **"Select"** to move from one parameter to the other.
 - Press again briefly on **"On/Off/Hold"** to exit the Hold function.


Change the light unit

- Press briefly on **"Select"** up to display the light.
- Pressing longer on **"Select"** to change the light unit.
- Press briefly on **"Select"** to select the unit: lux, klx, fc.
- Pressing longer on **"Select"** to return to the normal measuring mode.

How to change batteries

- Remove the front part at the back of the instrument.
 - Replace used batteries by new batteries AAA LR03 1.5 V.
 - Replace the front.
- Auto shut-off: the instrument switches off if not used during 20 minutes.



 Once returned to KIMO, required waste collection will be assured in the respect of the environment in accordance with European guidelines relating to WEEE.

大華高科股份有限公司

www.taiwah.com.tw info@taiwah.com.tw

台北 TEL: (02) 2592 - 5119 Fax: (02) 2592 - 3577
台中 TEL: (04) 2707 - 2269 Fax: (04) 2707 - 1799
台南 TEL: (06) 243 - 2338 Fax: (06) 243 - 2339

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