Lux Meters

Various environments need appropriate illumination, whether it be ordinary homes, offices, or factories. Inadequate illumination or too much illumination can lead to false recognition, reduced work efficiency, and loss of vision caused by fatigue. Since appropriate illumination helps to improve work efficiency and assure work safety, the control of illumination is re-

garded as a very important element. The illuminance meter indicates, by values in the unit of LUX, how much light shines on each place. It is used for the purpose of assuring appropriate illumination suitable for every environment. JIS (Japanese Industrial Standards) has a standard given below as recommended values for each environment.

Type	LUX 15	500 7	00 30	00 15	50	70 3	0	15 -L	UX-
Housing		*Sewing (Dark material)	*Studying, Sewing *Reading (Long time or small letters)	*Reading *Makeup *Eating meal	Living room, child room, reception room, dining room, kitchen	Hall, stairway, corridor, escape stairway, garage			
School		*Precision drawing *Machine-sewing *Precision experiment	Drafting room *Blackboard *Sewing *Library reading room *Precision machining	Ordinary classroom, special classroom, library reading room	Auditorium, meeting room, hallway, stairway	Escape stairway			
Office		*Designing *Drawing *Typing *Calculation *Key-punching	Office, drafting room, gage board, telephone exchange room, distribution board	Executive room, conference room, reception room, hall, elevator	Work room, change room, stairway, warehouse	Escape stairway			
Road, park					Tunnel of expressway (Illumination at the entrance and exit should be higher than this value.)	70∼15 Tunnel		15~3 Road with busy traffic	1.5~0.3 Road with scarce traffic, road in residential areas,
Hospital	Surgical table 10,000 over	*Autopsy *First-aid treatment *Drug formulation	Surgical room, first-aid station, ocular inspection, drug preparation *Technological research *Injection	Clinic, examination room, dispensary, waiting room, medical office	Doctor's room, hospital room, X-ray room, medicine room				park, other open spaces
Theater, movie theater				*Ticket counter, doorway, back stage	Projection booth, corridor, stairway	Spectators' seat (during a break), escape stairway, garden		3~1.5 Spectar	ors' seats (while showing)
Inn, hotel			Accounting office	Front desk, dining room	Guest room, amusement hall, corridor, lobby				
Diner, restaurant			*Sample case	*Register, kitchen, *dining table	Guest room, waiting room hallway				
Beauty parlor, barber			*Hairdo *Hair setting *Makeup	*Hairdo, *dressing	In shop				
Shop		*Highlighted display in show window *Highlighted show case	*Highlighted display in shop *Show window, ordinary show case	Ordinary display of shop Overall shop					
Department store		*Show window, main part on the 1st floor *Highlighted show case	Ordinary display Ordinary show case	Atmospheric display					

The combined use of local illumination is allowed in places marked with *. In these cases, it is desirable that the overall illumination should be 1 / 10 or more of the illumination by the local illumination. * Reference: Illumination level JIS Z9110

Pocket Size





Pocket size meter but with high accuracy and wide ranges Sensor / Probes can be all neatly contained and protected within the folding case. Easy to carry in a shirt pocket.

LX2

Easy to use lux meter

- 3999 count with analog bar graph
- Silicon photodiode
- Measuring range 0.1lx~399.9klx
- Data hold
- Auto power save (30min.)
- Cord length 900mm

UALA	7	7.1	-
HOLD	Ľ	L13	TA1
	п	m	т

Optical sensor	Si photodiode with approximated relative luminous efficiency (\$9mi				
Display	Numeric : 3999 full scale, Bargragh:42-segment				
Sampling rate	Approx. 2 times/sec. for numeral display. Approx. 20 times/sec. for bar graph.				
Measuring range	400.0/4000/40.00k/400.0klx				
Accuracy	\pm (5%+1) below 3000 lx \pm (7.5%+1) 3000 lx or higher Compatible JIS standard A class 23 $^\circ$ ±2°C 2°C				
Temperature Characteristics	±5% at 23°C within operating temperature/humidity range				
Relative spectral sensitivity	Approximation of spectral luminous efficiency of the standard photometric observer				
Grazing-incidence light characteristics	Cosine curve approximation				
Battery	SR-44 or LR-44×2				
Power consumption	Approx. 10mW				
Operating temperature	0°C~40°C max. 80% RH no condensation				
Storage temperature	-10℃~50℃ max. 80% RH no condensation				
Size / weight	Main body : H117×W76×D18mm/approx. 120g Sensor probe : H84× W16×D10mm				
Standard accessories included	Instruction manual				

Analog Type



LX3132

Max 10000 lux measurable

- Various light source can be measured such as filament lamp, fluor lamp, and mercury lamp.
- Silicon photodiode
- Taut-band drop shock proof meter

Optional accessories

Carrying case : C-01

Range	100/300/1000/3000/10000LUX				
Accuracy	$\pm 10\%$ of full scale $\;$ Receiver angle 30 * (less than -3%) $\;$ Receiver angle 60 * (less than -10%)				
Optical sensor	Si photodiode with approximated relative luminous efficiency				
Indicator	Analog pointer Taut-band				
Battery	R6PX2				
Size / Weight	H163×W100×D47mm/300g				
Standard accessories included	Instruction manual				

[·]Each country has it's own standard. Please check the standards for your own country.