

Lux Meters for Light Testing

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Measuring & Inspection

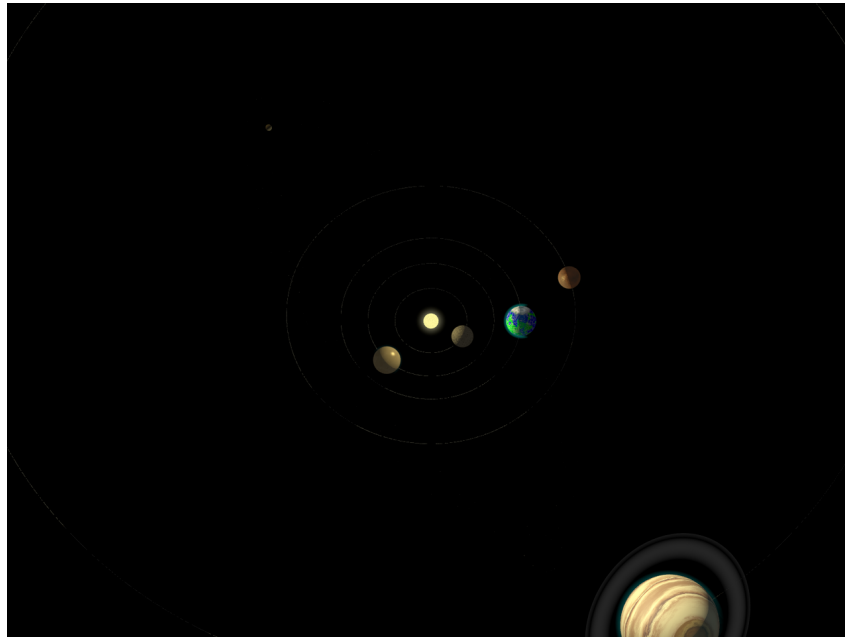


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A lux meter measures illuminance - the amount of light falling on a surface - to check lighting levels in workshops, classrooms and display areas. It provides objective numbers for lux level standards and for comparing LEDs, task lights and daylight at workstations.

Key Features

- Ranges from 0.1 to 200,000 lux
- Silicon photodiode sensors with cosine correction
- FC (foot-candle) switching on many models
- Hold and MAX functions
- Detachable sensors for awkward spots

Typical Uses in the Workshop

- Check workshop and bench lighting levels
- Verify task lighting meets recommended lux
- Compare LED and fluorescent fixture output
- Demonstrate inverse square law in physics lessons

Safe Operation

1. Place the sensor flat on the surface to measure
2. Hold level and away from your shadow
3. Read the lux value after it settles
4. Measure at bench height and work position
5. Record readings for a lighting audit

SAFETY NOTES

- Do not look directly into bright light sources while measuring
- Keep the sensor out of water
- Do not measure at eye level liquid or lasers
- Store the sensor cap on when not used
- Protect the meter from drops

Maintenance & Consumables

- Wipe the sensor dome clean
- Replace batteries as needed
- Check accuracy against a known lamp yearly
- Store in its case
- Keep the manual for correction factors

Specification & Buying Notes

A basic lux meter with cosine-corrected sensor and hold function suits school audits. Choose one with a case and detachable sensor head for convenience. Some models also read foot-candles.