

T-10A

Технические характеристики

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Illuminance Meter T-10A

A professional luxmeter that provides accurate and traceable lux or fcd over a large measuring range. Can be used with a detachable receptor head for remote measurement or in multi-point mode by connecting up to 30 receptors to cover a large area.



Introduction

Compact, light-weight and easy to use multifunctional Illuminance Meter

The small, easy-to-use handheld illuminance meter is capable of measuring intermittent light sources, can be connected to each other to form multi-point units and is easily controlled with a PC. It has a very large measuring range of 0.01 to 299,000 lx with automatic range switching and a large, backlit LCD screen. All this with the renowned high precision level from Konica Minolta.

Main Features

- Traceable light testing of Government and Civic facilities
- ANSI Lumen measurement of Projectors
- R&D by illumination manufacturers
- Installation, Repair and maintenance of lighting in factories, offices, and hospitals
- Quality control by manufacturers of home-use lighting products
- Examination of commercial light sources
- Illuminance control in agriculture, heritage applications and forestry

Features

Product Overview

The most important operational functions are accessed using just 3 large buttons. An additional operating panel for less commonly used features is found under a sliding cover. This way, you are not distracted by additional operating elements during everyday work. A large, backlit liquid crystal display shows the measurement values;

the illumination is automatically switched on as soon as it gets too dark. The T-10 models offer the following possibilities for analysis:

- Absolute measurement of illuminance in Lux and foot candles.
- Comparison of illuminance values as a difference or percentage value. The target level can be entered by measurement or manual entry with the keypad.
- Integrated illuminance (exposure) with a display of the integration time and the illuminance mean value.
- Other evaluation options with the software optional T-S10w

Multiple Receptors with serial connection

The option to connect multiple receptor heads allows measurements at several points simultaneously without having to move the instrument. Large areas such as movie screens, can be measured easily. With the help of the optional T-S10w Software you can measure the ANSI lumens of projectors for example.

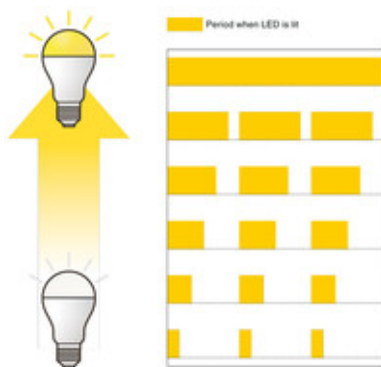
Up to 30 receptor heads can be connected at once and the measurement values can be called up with the base unit. The individual receptor heads are connected with a common LAN cable (10BASE-T) that can be up to 100 metres long. The various receptor heads are separated from each other and from the evaluation unit. Multi-point measuring is made very easy with the T-S10w software. The software also graphically displays the system and allows the simultaneous display of all measurement values.



Suitable to measure Pulse-Width Modulation (PWM) light sources

Conventional illuminance meters often cannot accurately measure Pulse Width Modulation (PWM) controlled light sources such as the increasingly widely used LED light sources.

Thanks to its special receptor design the T-10A is fully capable of accurately measure the illuminance of PWM light sources.



Specifications

Principal Specifications T-10A

Model	Illuminace Meter T-10A
Type	Multi-function digital illuminance meter with detachable receptor head
Illuminance meter class	Conforms to requirements for Class AA of JIS C 1609-1: 2006 "Illuminance meters Part 1: General measuring instruments" Conforms to DIN 5032 Part 7 Class B
Receptor	Silicon photocell
Relative Spectral Response*	Within 6% (f1') of the CIE spectral luminous efficiency V (λ)
Cosine Correction Characteristics	Within $\pm 1\%$ at 10° ; Within $\pm 2\%$ at 30° ; Within $\pm 6\%$ at 50° ; Within $\pm 7\%$ at 60° ; Within $\pm 25\%$ at 80°
Illuminance units	Lux (lx) or foot candles (fcd) (switchable)
Measuring range	Auto range (manual 5 range at the time of analog output)
Light source	Illuminance (lx). illuminance difference (lx). illuminance ratio (%). integrated illuminance (lx·h). integration time (h). average illuminance (lx).
Measuring range	Illuminance 0.01 to 299,900 lx 0.001 to 29,990 fcd
	Integrated illuminance 0.01 to 999,900 $\times 103$ lx·h 0.001 to 99,990 $\times 103$ fcd·h / 0.001 to 9999 h
User calibration function	CCF (Colour Correction Factor) setting function
Accuracy	$\pm 2\% \pm 1$ digit of displayed value (based on Konica Minolta standard)
Temperature / humidity drift	Within $\pm 3\% \pm 1$ digit (of value displayed at $20^\circ\text{C}/68^\circ\text{F}$) within operating temperature/humidity range
Digital output	USB
Analog output	1mV/digit, 3V at maximum reading; Output impedance: 10K Ω ; 90% response time: FAST setting: 1ms, SLOW setting: 1s
Operating temperature/humidity range	-10 to 40°C , relative humidity 85% or less (at 35°C) with no condensation
Storage temperature/humidity range	-20 to 55°C , relative humidity 85% or less (at 35°C) with no condensation
Power source	2 AA-size batteries / AC adapter (optional)
Battery life	72 hours or longer (when alkaline batteries are used) in continuous measurement
Standard accessories	White calibration plate CM-A 133, Zero calibration box CM-A119, AC adapter AC-A12, RS-232C cable IF-A12, Accessory Case CM-A117, Dust Cover CM-A118, Unit Driver CM-A108
Optional accessories	Receptor head ; Adapter for Multi-point ; AC Adapter ; Data processing software

Specifications are subject to change without prior notice.

Optional accessories for T-10A

Receptor Unit T-10

Receptor Head only

Item Order Code: A58U-305

Adapter T-A20

Adapter Unit for Main Body for separate connection of Head and Body

Item Order Code: 1876-710

Adapter T-A21

Adapter Unit for Receptor Head, incl. 1m cable to connect multiple Receptor Heads

Item Order Code: 1876-711

USB Connecting Cable T-A15

USB connecting Cable

Item Order Code: A32T-700

Hard Case CL-A10

Hard Case

Item Order Code: 1877-601

Printer Cable T-A12

Printer Cable

Item Order Code: 1876-701

AC Adapter AC-A308

AC Adapter 240V

Item Order Code: A32T-713

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