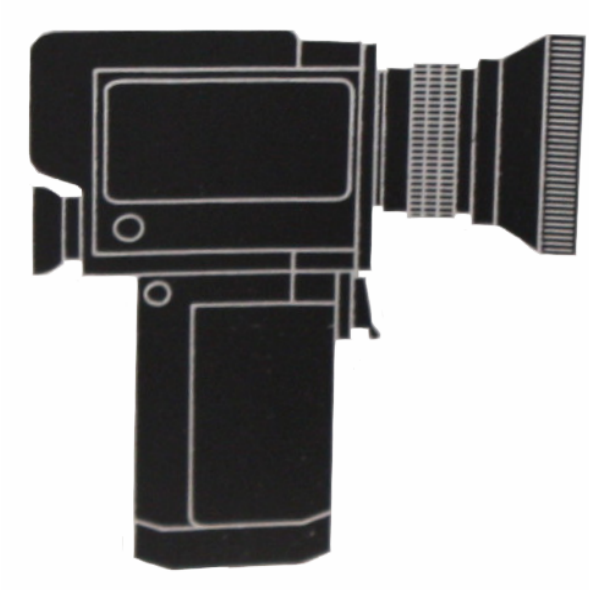
# Konica Minolta

## NT-1/3P Luminance Meter

High-performance specialized light meter
for professional or scientific use



A high-performance Specialized light meter for professional or scientific use. Its focusing single lens reflex viewfinders vises a clear, bright, magnified circular view covering 9 degrees with a clearly marked 1 or 1/3 center spot. Simply pulling the measuring trigger instantly measures only the light in the spot. With no influence from surrounding areas. Luminance values are indicated through the finder by direct LED digital readout or may be recorded in graph form by use of a convienent output jack on the side of the unit. The highly sensitive silicon photo Cell and electric circuit yield high accuracy over a wide range.

## Features:

- **Flareless optical system**

  - The luminance meters flareless optical system, which includes a focusing objective lens and total reflection mirror, ensures the meters photo cell will measure only the light within the 1 or 1/3 reading spot with no influence from surrounding areas.

- **Sillicon photo cell receportor**

  - The stable response and extra sensitivity of the silicon photo cell enables the Luminance meter to make readings withing +2 precent of the CIE Relative photopic luminosity curve.

- **LED Digital ft-L or cd/m2 Indication in the finder**

  - Light-emitting diodes in the viewfinder indicate precise fot-lambert or andelas pre square meter reading with greater repeatability than meters with analog-type readout.

- **Compact lightweight body**

  - Besides its simple controls, the luminance meters small size and comfortable handgrip make it one of the easiest to use meters of this type on the market.

- **Versatile operation**

  - Analog output jack for continous recording of luminance
  - Convenient Tripod Socket
  - Viewfinder indication blinks as over-range indication
  - Display does not light when battery power is insufficient

## Specifications

| | |
|---|---|
| Type: | Reflex viewing spot reading automatic/manual luminance meter |
| measuring method: | Reflected light by silicon photo cell with 1 angle off acceptance |
| Viewing System: | Focusing, through the lens relfex type<br>Objective lens: 85mm 1.2<br>Angle of view: Circular 9 with central 1 marked circle<br>Magnification: 2.96X focused at infinity |
| Focusing: | 1m (3.3 ft) to infinity by objective component signal helicoid; eyepiece adjustable from -4.6 to 2.7 diopters |
| Miniumum measuring area: | 15mm at 1m (2.4mm with close-up lenses) |
| Finder indication: | By light-emitting dioed (LED) digital readout in the finder; ft-L(cd/m2 in model nt-1) numbers 000 to 999 with floating or manual y set decimal point and LED indication for 10X and 100X displayed value |
| Measuring range: | 1 to 99900 cd/m2 |
| Response time: | Automatic: approx. 3 Sec from 0.01 to 99900<br>Manual: Approx 2 sec from 001 to 999<br>Analog: 90% within 0.4 sec |
| Calibration | C.I.E Standard |
| Spectral Sensitivity error: | Within 2% of C.I.E relative photopic luminosoity curve |
| Accuracy: | Within 4% of C.I.E Standard 1 digit in last display postiion |
| Screen-fliflicker accuracy: | Within 1% of average luminance with projection cycle of more thatn 72 Hz and duty of 70% (Projector at 24 fps) |
| Temperaturehumidity error: | Within 3% between 0 - +40 C Up to 85% humidity |
| Influence of flare: | Less than 1.5% from outside the 1 angle of acceptance |
| Analog output | Out put volteage: 1v over full scale<br>Out put impedance: 10 kil-ohms |
| Power Source: | one 9V Battery: Eveready 216 or equivalent |
| Other: | Folding rubber lens hood, rubber eyepiece guard, table for conversion of grip, screw for zero adjustment, wrist strap |
| Size: | 62 x 162 x 119mm (2-7/8 x 6-3/8 x 4-11/16 in) |
| Weight | 510g (18-1 / 8 oz) without battery |