

QUART MONI\_lux

## Ambient Light Monitoring



# QUART MONI\_lux

Device for Ambient Light Monitoring to Optimise Image Viewing Conditions in Radiological Practice



The QUART MONI\_lux has been introduced for real-time monitoring of light and ambient light. The device evaluates and signals if present light conditions are suitable for critical assessment of x-ray images. The MONI\_lux can be applied in digital or conventional x-ray imaging environments.

The QUART MONI\_lux checks automatically if the ambient light is not too bright to assure proper viewing conditions. For this purpose it has been factory calibrated to signal the appropriate (green) range between 20-60 lux. The device also signals when the room light is too dark for critical image assessment (yellow). The reason for this is that in too dark environments light areas in an x-ray image tend to glare when viewed on a viewing box or on a digital monitor. The prevention of this provides an ergonomic image viewing environment.

Regarding various National QA/QC Standards, the use of the QUART MONI\_lux may also simplify certain test procedures. Example Germany: When continuously used in image viewing environments, parameters such as Maximum Contrast and Veiling Luminance need only be checked 2 times per year at a monitor instead of 4 times.

The device is designed for continuous long-time use. Its power consumption is very low. The power supply can be established from an available USB port at the workstation.

The QUART MONI\_lux complies with IEC 61223-2-5 and DIN 6856-1.

## Technical Specifications

Display Range:	Yellow < 20 lux Green 20 - 60 lux Red > 60 lux (blinking)
Evaluation Angles:	120°(front) / 60°(back; only Version TL)
Temperature Range:	10 - 55°C
Storage Range:	-5 - 60°C
Size:	7.5x5.5x1.5 cm (WxLxH)
Weight:	50 g
Power Supply:	USB direct or Universal Mains Unit (optional on request)
Attachment:	On top of viewing device (to be flush with monitor front)
Protection Class:	Class II equipment VDE 0106, part I
Article Number(s):	11701 (USB) On request (Netzgerät)

## Included in the Delivery

- ✓ QUART MONI\_lux Monitoring Device
- ✓ Strong Adhesive Tape
- ✓ USB Cable (only for Power Supply)
- ✓ Manual

## Also Available

MaVo 5032 B/C	Light & Luminance Meter (Class B or C)
MaVo_spot	High-Precision Light & Luminance Meter
QUART MONI_pro	Software for Monitor Constancy Test



**QUART**  
Quality Assurance In Radiological Technologies