



**Qmount**

UV MOUNTING IN 60 SECONDS

**THE FAST WAY TO  
TRANSPARENT MOUNTED SAMPLES**

## THE INNOVATIVE MOUNTING SOLUTION

# Qmount – UV MOUNTING DEVICE

The Qmount is a modern device for the light-curing-based mounting of materialographic samples.

The samples are placed in the device which is equipped with customized, powerful LED technology. The UV transparent mounting moulds are filled with the UV curing resin. The transparent sample can be removed within a very short time frame. A suction unit from the QATM portfolio can be connected to the device to increase work safety.



### Benefits Qmount

- I UV mounting in the shortest possible time (60 seconds)
- I Highly efficient, long-life LED technology
- I Robust machine design
- I Easy handling
- I Connectable suction unit (optional)



### VERY FAST MOUNTING

The compact device is equipped with specially developed and durable LED boards, which irradiate the samples highly efficient with UV radiation of a very narrowly tolerated wavelength range (emission maximum at  $\lambda = 365 \text{ nm}$ ) and allow standard samples to cure within 60 seconds.



### ROBUST TECHNOLOGY

The integrated ventilation guarantees low polymerization temperatures of approx. 70 - 90 °C. A robust design with powder-coated aluminum housing and high-quality components enables high sample volumes. The hood is equipped with a softclose feature.



### HIGH SAMPLE CAPACITY

The device contains a scratch-resistant glass plate (200 x 260 mm) which enables the simultaneous curing of up to 12 samples with a diameter of 40 mm. The simple design guarantees an easy cleaning of the working space.



### EASIEST OPERATION

The process parameters are clearly shown on a color display and can be continuously adjusted using a rotary knob. The mounting process is started, paused or ended using the QATM start-stop button. An acoustic signal informs the user at the end of the process.



### WORK SAFETY AND COMFORT

As standard, the device is equipped with a connection for external suction to filter the vapors and odors and to increase work safety. A suitable suction device with activated carbon filter is available in the QATM accessories.



### MULTI-TASK VERSATILITY

Due to the very short process times, the Qmount opens up the possibility of producing transparent, materialographic standard mountings of various materials very quickly and cost-effectively.



### CONSUMABLES

For a perfect mounting process, QATM offers the appropriate UV curing resin, UV transparent mounting moulds in different diameters and mounting aids.



## TECHNICAL DATA

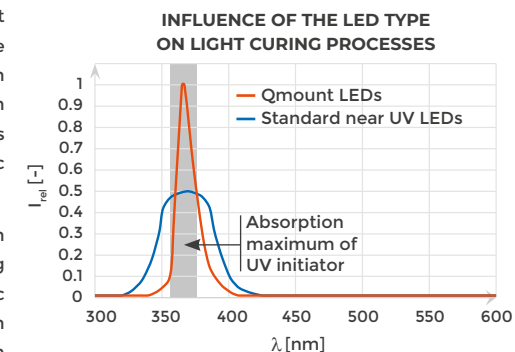
**Qmount**

Max. sample support surface	200 x 260 mm
Max. sample height	40 mm
Wavelength	365 nm
Adjustable curing time	0 - 100 min
Polymerization temperature (depending on application)	70 - 90 °C
Connection voltage	100 - 240 V 50/60 Hz (1Ph/N/PE)
Dimensions (W x H x D)	377 x 172 x 436 mm
Weight	~ 14.5 kg (depending on equipment)

## HIGHLY EFFICIENT UV LED TECHNOLOGY

To minimize loss of electric power the Qmount is equipped with specialized UV LEDs. These show a very slim emission spectrum, which maximum superimposes with the absorption maximum of the KEM 50 UV initiator. This enables shorter curing times with a low electric consumption.

UV initiators get the necessary activation energy for the initiation reaction by absorbing UV radiation. Every molecule has a specific absorption spectrum, which shows certain wavelength areas in which the absorption coefficient of the molecule is particularly large. Outside of the so called absorption maxima a large portion of the emitted radiation is lost. Standard UV LEDs usually emit a significant amount of radiation besides the wavelength intervals in which the initiator has a good absorption. This radiation is converted to heat.



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