

Mikrosize®

UM-6000

Automatic Light Curing Cold Mounting Press



Video



Contact us

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Features and Applications

Features

- Dual-wavelength combination: 365+395 (395+450, 365+450 optional)
- Each wavelength has low, medium, and high brightness levels, independently adjustable
- In low-temperature mode, the temperature does not exceed 50°C, effectively protecting samples
- Six-sided illumination (top, bottom, left, right, front, back) with reflective film ensures uniform light distribution and high curing efficiency
- Manual and automatic operation modes
- Electric sample chamber door for smooth closing, preventing liquid spillage (UM-6000S includes this feature)
- Audible and visual alerts upon completion of mounting
- Supports up to 99 automatic programs, each customizable for wavelength, brightness, curing time, etc
- Easy-to-replace light panels
- Lifespan is over 10 times longer than traditional mercury lamp curing machines, unaffected by frequent switching
- Uses LED UV lights, consuming only 10% of the energy of mercury lamp UV curing machines
- Optional vacuum pump further reduces bubbles
- Fast curing time, typically ranging from seconds to minutes

Applications

- Cross-sectional analysis and defect detection of electronic components:
UV curing occurs at room temperature, avoiding thermal damage to temperature-sensitive parts.
- Microscopic observation and pathological analysis of biomedical samples:
Low-temperature curing prevents protein denaturation, and rapid curing meets urgent diagnostic needs.
- Industrial inspection and failure analysis of brittle and porous materials:
No mechanical pressure is required, preserving sample integrity and accommodating irregular shapes or loose structures.



Instrument Appearance



1. Display screen

2. Chamber door



1. Power switch

2. Power cord port

3. USB port

4. RJ45 LAN port

Details



- The sample chamber can hold 12 molds ($\Phi 30\text{mm}$).
- The chamber door opens and closes automatically, ensuring smooth operation and preventing liquid spillage (UM-6000S features an electric door).

Functions



Automatic Mode

Place the sample in the chamber and press start. The device will automatically run according to the preset parameters.



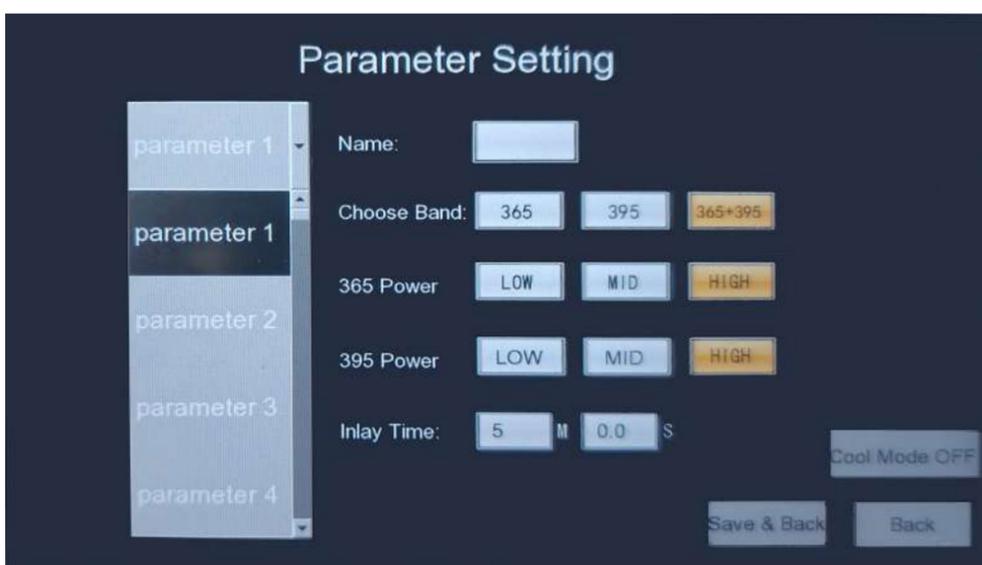
Manual Mode

Users manually set parameters such as fan control and light intensity.



Low-Temperature Mode

The temperature during the mounting process does not exceed 50°C, protecting sensitive samples.



Parameter Settings

- Supports up to 99 parameter programs.
- Language options: Chinese and English (other languages customizable).
- Low-temperature mode can be selected

Technical Specifications

Name	Automatic Light Curing Cold Mounting Press
Model	UM-6000
Number Of Mounting Samples	>12 (for a 30mm diameter inlay)
Sample Table Size	L X W X H: 174X174X35mm
Light Wavelength	365, 450, 365+450
Light Mode	Three
Power Mode	High, medium, and low
Low Mode	Below 50°C
Applicable Mold	Clear molds in different shapes, including soft or hard molds or disposable molds Such as diameter 20,30,40,50mm, or rectangular mold, etc
Touch Screen Energy Saving	10 minutes of black screen (0-60 minutes can be set)
Power Supply	220/110V, 50/60Hz, 160W
Overall Dimensions	Width X Depth X Height: 340X415X222mm
Weight (Kg)	15
Packaging Dimensions (mm)	560*470*380
Packaging Weight (Kg)	Approx. 20



Standard Delivery

Name	Quantity
Machine Mainframe	1 set
Light cured cold inlay, 200ml	1 bottle
Clear tessellation mold	2
Soft and hard diameter 30mm each	
Product instruction manual	1 copy

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Optional Delivery

Name/Model number	UM-6000
CM-5808	Light cure cold inlay 1000 ml/bottle Cure under UV light Low viscosity, curing speed block, good transparency
Automatic vacuum system	Remove air bubbles in the Mosaic and at the interface with the sample
CMT-2018	Clear cold inlay with mold 12 / box round
CMT-2518	Diameter: 20,25,30,40,50 mm
CMT-3018	Clear silicone rubber, with light curing cold inlay, can be used
CMT-4021	repeatedly
CMT-5024	
CMT-5520	Clear cold inlay with mold 6 / box oblong
CMT-7040	Length X width: 55X20, inner height :22mm
CMT-1050	L X W: 70X40, inside height :22mm L X W: 100X50, inside height :22mm Transparent silicone rubber, with light curing cold inlay, can be used repeatedly
CCM-241018	Disposable rectangular crystal mold 300 pieces/pack 24mm long, 10mm wide, 18mm high, PS material It is used to carry slices when PCB factory does metallographic section analysis It is characterized by high transparency, beautiful and practical, saving cold inlaying material
CCM-242420	Disposable square crystal mold 200 / bag Length :24mm, width :24mm, height :20mm, PS material Used for PCB factory to do metallographic section analysis, it plays the role of bearing slices It is characterized by high transparency, beautiful and practical, saving cold inlaying material
CCM-3018S CMM-3018F	Disposable round crystal mold (full box/ half box) 100 pieces/bag 30mm outer diameter, 18m high, PS material Used for PCB factory to do metallographic section analysis, it plays the role of bearing slice It is characterized by high transparency, beautiful and practical, saving cold inlaying material