

User Guide

M1 Bright (LED Dental Mirror) M2 Rainbow (Dental Mirror with Endo Gauge) M3 Breeze (AirClean Dental Mirror) M5 Mini (AIrClean Micro Mirror) M6 Lumi (AirClean Photography Mirror) M7 Eva (3D HVE Suction Mirror)

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Directions for Use

M1 Bright (LED Dental Mirror)
M2 Rainbow (Dental Mirror with Endo Gauge) *Extended Series: M2 Magnifying (Dental Mirror with Endo Gauge)*M3 Breeze (AirClean Dental Mirror)
M5 Mini (AirClean Micro Mirror)
M6 Lumi (AirClean Photography Mirror)
M7 Eva (3D HVE Suction Mirror).

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All Products Manufactured in Taiwan R.O.C.

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Introduction

This manual describes the installation and use of M1 Bright, M2 Rainbow, M3 Breeze, M5 Mini, M6 Lumi, and M7 Eva.

Intended Use

1. M1 is intended to provide additional illumination in a dental cavity in the process of dental examinations.

2. M2 is intended to provide a light-weight handy and reusable mirror for dentists.

3. M2 magnifying is an extended series of M2. With concave mirror, this product is intended to provide a simple and convenient magnification function.

4. M3, M5, and M6 are intended to provide an additional self-cleaning air blow function to improve diagnosis or treatment efficiency of dentistry.

5. M7 is intended to provide an additional high-power suction function with a lightweight handy experience of dentistry.

6. The described devices are intended to be used by trained clinical professionals in dentistry.

7. Professional qualification includes degree in medicine with dentistry specialization, degree in dentistry, or degree in dental nursery.

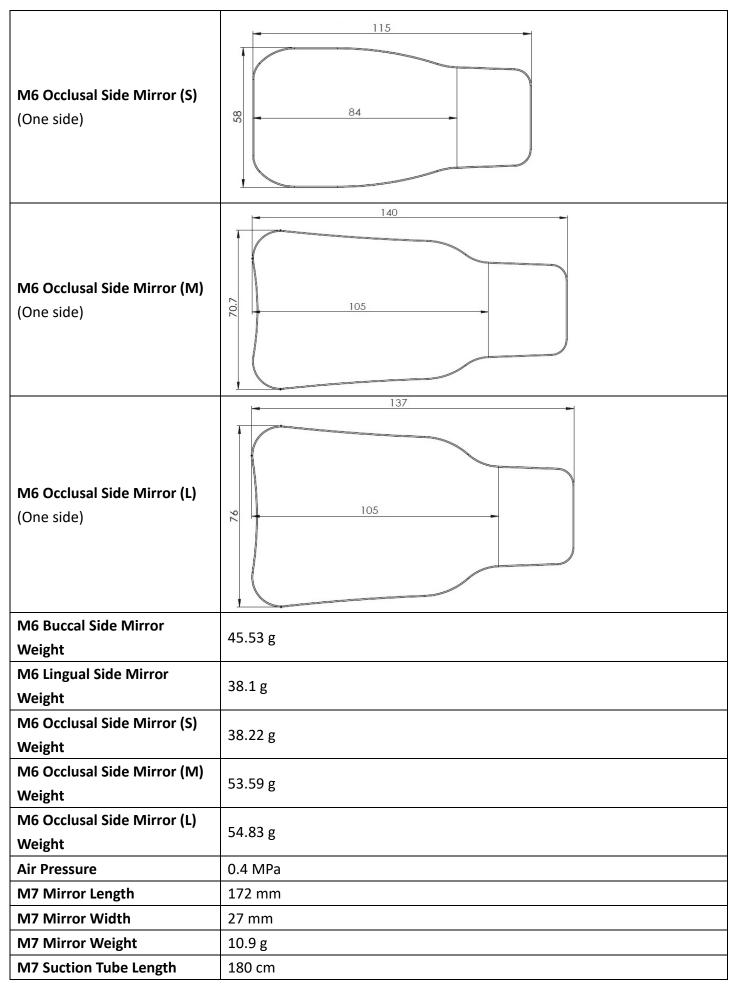
Contraindications

The M1 Bright LED light output is in a range that may contribute to the premature polymerization of composite materials. In addition, do not point the light directly into your eyes.

Specifications

Take care to leave free space or operation room to avoid any interference with fixed obstacles. The free space or operation room can be determined by the following sizes and dimensions:

M1 Size	Dental mirror handle (with tail cap): 184 mm x 25 mm				
	Light source module: 146 mm x 13 mm Handle: 15.5 mm				
M1 Diameter	Handle: 15.5 mm				
	Light source module: 12.7 mm				
M1 Weight	Dental mirror handle (with tail cap): 11 g				
	Light source module: 27 g				
M2 Length	180 mm				
M2 Diameter	12 mm				
M2 Weight	12.40 g				
M3 Length	162 mm				
M3 Diameter	12 mm				
M3 Weight	12 g				
M5 Length	164 mm				
M5 Weight	10 g				
M5 Mirror Length	3 mm, 5 mm, 10 mm, and 15 mm				
M5 Thickness for 3 mm and 5	1.6 mm				
mm mirror head					
M5 Thickness for 10 mm and	3.15 mm				
15 mm mirror head	5.15 11111				
M6 Buccal Side Mirror (Double Side)					
M6 Lingual Side Mirror (Double Side)					



M7 Tube Weight 87.2 g M7 3-Axis Free Rotation Connector 10.4 g M7 Suction Mirror Holder Width 82 mm M7 Suction Mirror Holder Weight 62 mm M7 Suction Mirror Holder Weight 13.7 g M7 Suction Mirror Holder Connector for U.S.A. Type 11 mm M7 Suction Mirror Holder Connector for Surope Type 16 mm M7 U Spring SUS 316 Mirror Protective Cover Length 28.55 mm Mirror Protective Cover Height 31 mm Mirror Protective Cover Height 2.5 g Mirror Protective Cover Height 2.5 g Mirror Protective Cover Height 8.5 mm Mirror Protective Cover Height 2.5 g Material Glass Fiber/Polymer Mirror Material Glass Fiber/Polymer Mirror Houter 2.5 g Mirror Houter Brightness: 65,000 LUX Color Temperature: 5000K, CRI ≥90 Diame	M7 Tube Width	12 mm				
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mirror Operating Temperature 50° F to 104° F (10° C to 40° C)	Diameter of M2 and M3	22.000 20.000				
50° F to 104° F (10° C to 40° C)	mirror	23mm, 20mm				
Conditions	Operating Temperature	$F0^{\circ}$ E to 104° E (10° C to 40° C)				
	Conditions	50 F 10 104 F (10 C 10 40 C)				
Storage Conditions-4°F at 50% RH to 122°F at 95% RH	Storage Conditions	-4°F at 50% RH to 122°F at 95% RH				

	-20°C at 50% RH to 50°C at 95% RH			
Performance	White light: 6 hours continuously			
Battery	Two 1.5V AAA batteries			
CE	The CE mark on this product indicates that it has been tested to and conforms to the provisions noted within the MDR/2017/745 Medical Device Regulation.			

Warnings and Cautions

All operating personnel must read and understand the general safety information in this summary. Specific warnings and cautions are also found throughout this manual. A caution or warming statement in this manual identifies a condition or practice which if not corrected or discontinued immediately, could lead to patient injury, illness, death equipment failure, equipment damage, or data loss.



WARNING Do not use if the mirror cannot be properly installed into the mirror frame.



CAUTION Do not use alkaline batteries; leaking of battery fluid may cause corrosion of electronic components.

CAUTION Do not look directly at an illuminated Light Source Module. Temporary blindness or vision loss may result.

CAUTION Do not immerse or soak the Light Source Module in any liquid.

CAUTION Do not autoclave the batteries or Light Source Module to avoid the risk of damage to the batteries and Light Source Module or to operate without hazard to the user.

CAUTION Before use, check if any cracks or chips on the mirror.

CAUTION Stop using if the mirror is broken or damaged and replace with a new dental mirror. Do not attempt to take out the damaged mirror.

CAUTION Before use, check if the mirror is fully pressed against the frame edge.

CAUTION Do not proceed to a rapid cooling after high temperature sterilization.

CAUTION Please clean, steam sterilization and dry the new mirrors before first use.

CAUTION Follow the exact mirror replacement procedure. Please visit our website

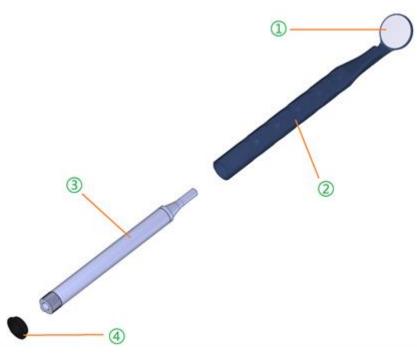
http://www.motranser.com for related product information and video demonstrations.

Device Setup and Installation

M1: Installation and Removal of Light Source Module

Please refer to the figure below, and the M1 Bright is mainly comprised of:

- (1): HD mirror (2): Dental mirror handle
- ③: Light source module ④: Tail cap

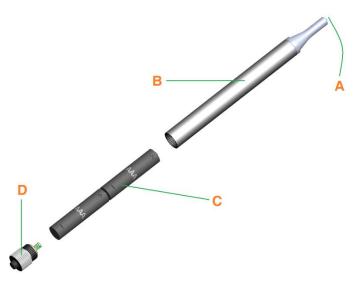


- 1. Insert ③ "light source module" into ② "dental mirror handle".
- 2. Plug (a) "tail cap" into (b) "dental mirror handle".
- 3. Press 4 "tail cap" to turn on the light and press again to turn off.
- 4. Please use cotton swab with alcohol to clean "HD mirror" in order to prevent possible scratch.
- 5. Or, visit http://www.motranser.com for related product information and video demonstration.

M1: Battery Replacement of Light Source Module

Please refer to the figure below, and

- A: LED light bulb
- B: Battery cartridge
- C: Standard AAA battery
- D: Battery cap

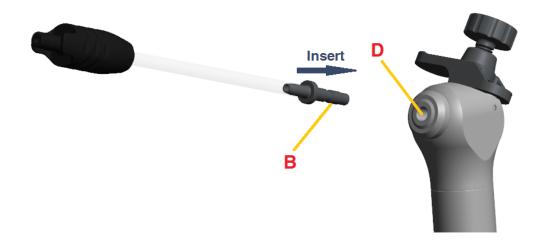


1. Insert two standard AAA batteries "C" in "B" (battery cartridge) in opposite orientation by the positive terminal (+ pole) facing upward/inward.

- 2. Tighten "D" (battery cap) screw onto "B" (battery cartridge).
- 3. Beware of the risk of fragile "A" (LED light bulb).
- 4. Or, visit http://www.motranser.com for related product information and video demonstration.

M3, M5 & M6: How to Connect to 3-Way Syringe

Please refer to the figure and configuration as below:



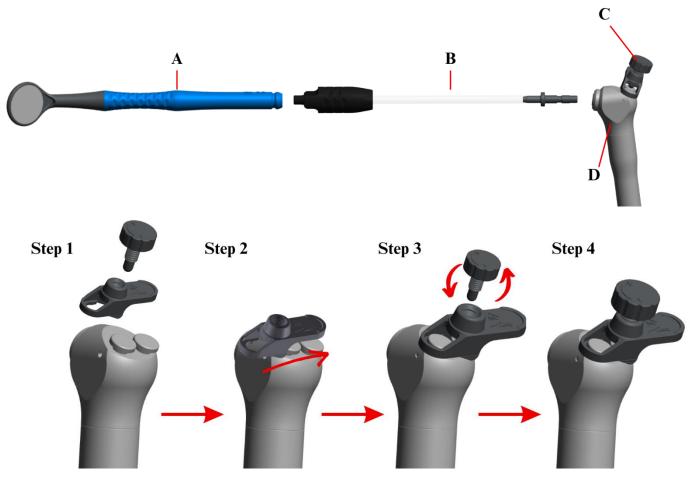
Simply insert "B" (3-Way Adapter) to "D" (3-Way Syringe) all the way in and ensure its good fixation.

M3, M5 & M6: How to Install Air Pressure Regulator

Please refer to the figures below and the M3 Breeze is comprised of four main components:

- A: AirClean Dental Mirror Handle
- B: 3-Way Adapter
- C: Air Pressure Regulator

D: Your 3-Way Syringe *The 3-way syringe is not included in our products



1. Screw (without locking) Air Pressure Regulator "C" in your 3-Way Syringe (referring to "D"), referring to Step 1 to Step 3.

2. Air flow rate can be adjusted by rotating Air Pressure Regulator "C", referring to Step 4.

3. Insert AirClean Dental Mirror Handle "A" into the receiving end of 3-Way Adapter "B".

In addition, optional choices of 1/4" and 3/8" QD Dental Unit Adapter are available.

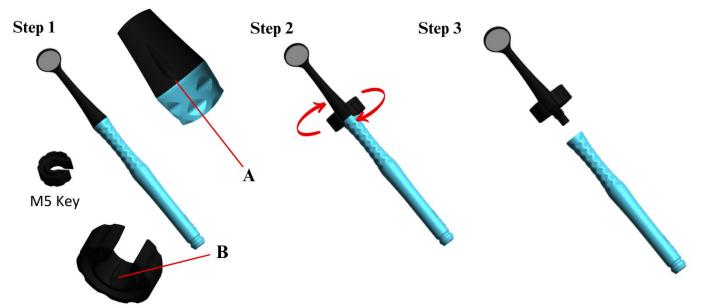


Please refer to the figures below, and simply insert into dental unit socket.



M5: Replacement Procedure of Mirror Head

Please refer to the figures below and follow steps 1 to 3:

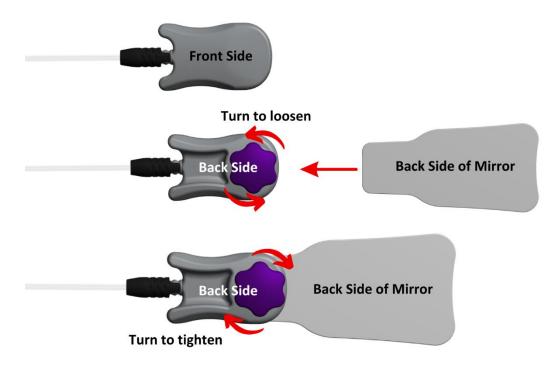


1. Configure "Mirror Head" into "M5 Key" from the "Neck" position, and place M5 Key to the position where "A" in respect to "B".

- 2. Turn counterclockwise to separate the Mirror head from the Handle.
- 3. Screw New Mirror Head on the Handle and apply M5 Key to tighten.

M6: Procedure for Mirror Replacement

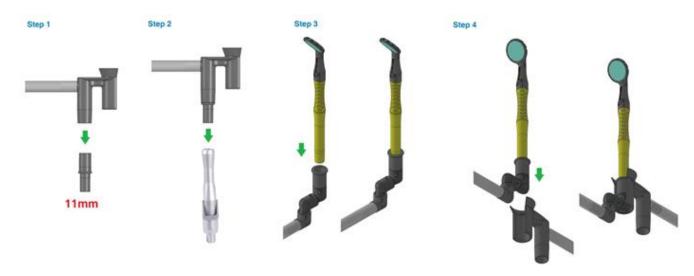
Please refer to the figures below and follow steps 1 to 3:



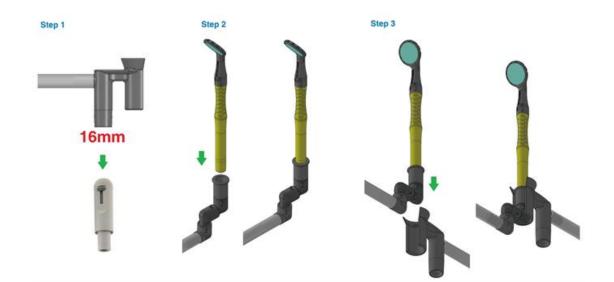
- 1. Remove the PE film prior to new mirror installation.
- 2. Rotate the screw counterclockwise to loose and then insert the mirror.
- 3. Rotate the screw clockwise to tighten and secure the mirror.

M7 How to install the M7 to your HVE suction

To an U.S. Standard 11mm HVE Please refer to the steps below:

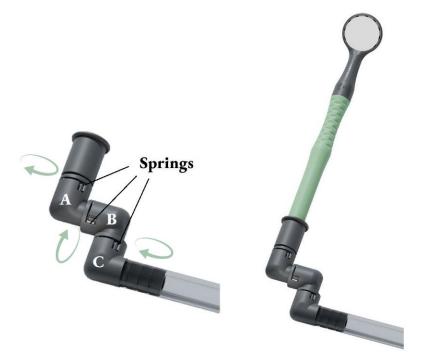


To a Europe Standard 16mm HVE Please refer to the steps below:



3D Rotation

Please refer to the figures below and follow steps 4 to 5:



4. All of "A", "B", and "C" are designed for 360 degrees free rotation. The 3-axis joint design helps to reduce the drag on dentists' hands.

5. The springs in connection to "A", "B", and "C" are disassembled for cleaning, or applying silicone lubricant to the parts.

M7 How to disassemble 3-Axis Free Rotation Connector

Please refer to the figures below and follow steps 1 to 3:



1. Use a thin and pointy tool (ex: the other side of a bur of slow speed Φ 2.35mm) to insert from the hole.

- 2. Pull out the U spring.
- 3. The joints can be disassembled.

Mirror Protective Cover

Please refer to the figure below:



Please put on the mirror protective cap for maximum mirror protection after use.

Maintenance

User Guideline

Dental Mirror (M1, M2, M3, M7)		. Before any use, examine the mirror handle for cracks and/or other		
		imperfections & flaws.		
1013, 1017)	2.	Be sure that the mirror has been fully pressed against the edge.		
		Insert the light source module into the dental mirror handle and plug with		
		the tail cap.		
Light Source Module	2.	After the insertion, use the dental mirror to observe in the mouth.		
	3.	The light source module is for direct/reflective illumination.		
		If the light source module fails to illuminate, and ensures the batteries have		

been replaced, discontinue use and replace the Light Source Module.		
5. Please refer to P.10 and reassemble Light Source module.		
1. Use 2 standard AAA batteries.		
2. In consideration of environmental protection, using rechargeable batteries is		
recommended.		
3. If the lamp does not illuminate or is dim, please replace the batteries.		
4. Refer to P.11 for the battery replacement.		
1. 3-Way Adapter is not suitable for autoclave.		
2. Please do not exceed 6 kgf/cm ² (6 Bar) air pressure.		
Please make sure the screw is tightened.		
Please stop using the mirror if there are any cracks. Replace the cracked mirror		
with a new mirror immediately.		
Please immerse/soak the mirror in clean water for few seconds before use for		
better anti-fog effect.		
Please make sure the suction mirror handle and the suction tube are fully		
attached and tightened.		

Cleaning & Sterilization

	Cle	aning				
	 Please use a neutral detergent solution for washing and cleaning before sterilization. M3, M5, M6: Please use surface disinfectant wipes to clean 3-way adapter. This PU tube is not suitable for high temperature sterilization. 					
	Sterilization					
	1. Important! Please Steam Sterilize Only.					
M1-M7	2. Please steam sterilize with the mirror and silicone plug attached to the					
Dental Mirrors	mirror frame. Do not sterilize them separately.					
	3. Recommended Sterilization Parameters are as follows:			_		
			Class N	Class S	Class B	
		Тетр	121°C	134°C	134°C	
			(250°F)	(273°F)	(273°F)	
	Sterilization≥15 mins≥3 mins≥3 minsTime					
		Drying	Optional	Optional	Optional	
		Time				
Light Source Module	Please wipe the light source module with dry soft cloth.					

CAUTION Do not sterilize the Light Source Module or batteries.
CAUTION Do not immerse or soak the Light Source Module in any
liquid.
CAUTION Do not use wet cloth to clean the Light Source Module, to
prevent possible electric leakage.
CAUTION Do not use alkaline batteries; leaking of battery fluid may
cause corrosion of electronic component.

Disposal

	Apply a final sterilization and recycle the plastic handle and mirror separately.
Dental Mirror Handle	
Mirror	GL GL
U Spring (M7)	SUS 316 FE
Spring (M7)	SUS 304 FE
	Light source module contains electronic components, and waste. Its disposal
Light Source Module	method complies with in accordance with applicable local, state and federal regulations.
	In Taiwan (R.O.C), please call 0800-085717 or look up (<u>http://recycle.epa.gov.tw</u>)
Batteries	for instructions on how to recycle batteries.
	For users outside Taiwan (ROC), contact your local authorities on recycling
	procedures or go to http://www.rbrc.org/ for recycling information.
	Dispose of Properly

Trouble Shooting

Parts	Problem	Solution		
Dental Mirror Handle	Mirror blur vision	1. Wash and clean mirror		
(M1, M2, M3, M7)		2. Wipe the mirror surface with a new cotton pad		
		3. If the problem persists, please replace a new mirror		
	No Light	1. Make sure the switch cap is screw on tightly		
		2. Install 2 new AAA batteries.		
Light Source Module		3. If no light illuminates, please contact your local		
		distributor.		
3-Axis Free Rotation	Not Lubricate	Refer to P.16 to see direction of detach procedure and		
Connector		apply Silicone Grease.		

Warranty

All Motranser mirrors are guaranteed to be free from defects in material and workmanship when used for their intended dental purpose. All Motranser mirrors have a limited 1-year warranty, which only applies to the system components: air control system/valve, suction connection parts, supplied tubing, mirror holders, and LED light source. Consumables such as mirror handles, mirror heads, mirror lens, mirror cap covers are not covered by the warranty.

Motranser offers a warranty on all of its products based on the useful lifetime of the product. If you purchase a product that is determined to have a manufacturing defect, it will be exchanged if the product is within the stated warranty period for the product from the invoice date. Please contact your local dealer if you believe that any product you purchased has a manufacturing defect within the stated warranty period from the date of purchase. Any warranty is void if the product has been subject to misuse or abuse, or the proper sterilization instructions, or instructions for use, have not been followed. Warranty Exceptions

This warranty is void for Motranser instruments and products serviced by any person or facility other than the Motranser Instrument Repair Services. Any custom made, custom etched or neutralized products are not returnable. Warranties are not valid for Motranser instruments and products that prove defective as a result of improper care and cleaning or misuse such as improper installing of new mirrors to cause possible mirrors detached. Instruments or products that are damaged in fire, flood or other acts or disasters are also excluded from warranty.

Except as set forth in these Terms and Conditions, Motranser makes no other representations and warranties regarding its instruments or products, either expressed or implied. In addition, in no event will Motranser be liable for any incidental, special or exemplary damage or loss of profits in connection with the use of Motranser instruments and products

Contact Information

For additional information, please contact your local MOTRANSER representative. Motranser Headquarter ACME TOOLING TECHNOLOGY CO., LTD. No.41-3, Fuxing Road, Waipu Vil., Fuxing Township, Changhua County 50648, Taiwan (R.O.C) https://www.motranser.com E-mail: motranser@yunghau.com

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