

Handheld Micro Shoot Series

HMS-M43, a handheld microscope with blue light

As the microscope lens and control unit mounted,
the camera quickly turn into a handheld microscope.

Space-saving for operation, time-saving for assembly.

Ring-shaped excitation light sources confined in lens barrel,
keep a safe shooting, avoid the effect of background light.
Can be used for detection and photo-taking
of the fluorophores.
(ex. GFP or fluorescence fingerprint)

Application area

- Aviation & Aerospace
 - High-tech manufacturing
 - Research & Education
 - Antique Identification
 - Printing, Counterfeit Detection
- Or the need for fluorescence
detection such as Life sciences,
Forensic Science and
other fields.



Features

- ◎ *Allowing 0 cm working distance, can be totally stick close to the shooting object.*
- ◎ *Lens magnification 60X / 120X, built-in White / blue dual light sources can be freely alternated.*
- ◎ *Lighting come in 11 modes, can be different adjustment for varying objects surface to get the best results of shooting.*
- ◎ *Freely adjustable light intensity, is dimmable from 1% to 100% with 5-step dimming modes.*

X-Loupe® Handheld Micro Shoot Series / HMS-M43 Specification

X-Core (Control unit)		
Function	Power ON, Off / Light Channel Switch / Lighting Modes Setting / Dimming Control	
LCD Status Display	Battery check / Channel output / Lighting Modes / Lighting Intensity	
Battery	Built-in SANYO® Rechargeable Li-ion Battery, 5200mAh	
Charging method	via Power Adapter (packed separately) Input: AC 100~240V; Output: DC 5V / 2A NOTE: Only use the dedicated charger for charging	
Charging Time	1st charge 8 hrs and subsequently charge around 4 hrs	
Lasting Time (5200mAh)	10 hrs with default light intensity, 6 hrs with maximum intensity (5-step)	
Body Material	ABS and PMMA, RoHS compliant	
Dimension	88.3mm x 63.15mm x 54mm	
Weight	< 200g	
Operation Environment	0~40°C	
Use in conjunction with X-Core	Objective Lenses	
compatible with camera / lens	① OLYMPUS M.ZUIKO DIGITAL ED 60mm F2.8 Macro ② Panasonic DG Leica 45mm F2.8 Macro O.I.S	
Camera / Specifications and Using	Please Refer to camera manual	
Included Number of Objective Lens	2	
Magnification Power	60X	120X
Lens Material	Schott® lead-free optical glass and OHARA composite spherical mirror, high transmittance and MgF ₂ AR coating	Schott® lead-free aspheric optical glass, high transparency and MgF ₂ AR coating
Field of View (By 1*1mm graph paper)	10.5 x 8.2 mm	6.8 x 5.5 mm
Resolution (by USAF 1951 Target)	64 lp / mm	114 lp / mm
Max. Dimension (mm)	41mm x 54mm	39 mm x 54 mm
Weight of Lens Barrel	125g	125g
Mounting Method for lens	Magnet mount	
Channel & Light source	Channel W: White light Channel F: Blue light (or Custom wavelength)	
LED Brand	White light: High power OSRAM LED Blue light: High power OSRAM, choose by wavelength	
LED Number	16 (each channel x 8)	
Dimming intensity	General intensity is dimmable from 1% to 100% with 5-step dimming modes Only in the charging status of power adapter can enable the Turbo mode (6-step)	
Max. current on LED (6-step)	60 mA	
Lighting Modes	11 modes: Full Ring light x 1 ► Half Ring light x 4 ► 1:2 Brightness Ratio x 4 ► Diagonal light x 2	
Max. Current Consumption	White light (5000K) / 1330 mA Blue light (wavelength 470nm) / 650 mA	
Adaptor ring components	① Adapter Ring (specified for use with M4/3); ② 30mm (Glass) Filter ④ (Acrylic) Protective Lens / (Glass) Linear Scale Reticule; ⑤ Lens Adapter Ring	
Material	Aluminum Alloy, Optical Grade Glass, Acrylic, ABS, PC, RoHS compliant	
Power cable length	30 cm	
Operation Environment	0~40°C / 32~104°F	

*We (Lumos Tech.) reserves the right to change the product appearance or specification. The contents of catalogs / manuals are subject to change without prior notice.

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