

# X-Loupe® AgileLite System 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 <b>NOTE: Only use dedicated charger for charging</b>
Charging Time	1st charge 8 hrs and subsequently charge around 5 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
Operating Environment	0~40°C

AgileLite Ring		4X4 Barrel
Use in conjunction with X-core compatible with camera / lens	Canon APS-C camera / Canon EF-S 60mm f/2.8 Macro USM or Nikon APS-C camera / Nikon AF-S Micro Nikkor 60mm f/2.8G ED	
Mounting Method	Magnet mount	
Filter	49mm (outside diameter $\leq$ 54mm, thickness $\leq$ 5mm) / Glass	
Channel & Light source	Channel W: White light Channel F: Blue light (365nm / 415nm / 470nm standard / 525nm / 840nm; based on the order received)	
LED Brand	White light: High power Cree® LED, or Nichia CRI > 90CRI Blue light (or Custom wavelength): High power Cree®, Nichia or OSRAM LED, choose by wavelength	
LED Number	32	32
Dimming intensity	Intensity is dimmable from 0% to 100% with 5-step dimming modes	
Lighting Modes	11 modes: Full Ring light X1 ▶ Half Ring light X4 ▶ 1:2 Brightness Ratio X4 ▶ Diagonal light X2	
Color Temperature (White light)	5000K +/- 500 (angle 0°, distance 1.5 cm)	5000K +/- 500 (angle 0°, distance 0 cm)
Illuminance	of best lighting angle: 9000lux +/- 500 (angle 0°, distance 1.5 cm)	of W Channel: 6000lux +/- 500 (distance 0 cm)
Illumination Angle Control	Manual, 0~45 degree from optical axis	---
FOV setting	---	4cm x 4cm (For latent fingerprint photography)
Accessories Material	Lampshade: Clear acrylic; Frosted acrylic	Disposable Contact ring: Rubber L-Square Ruler: PC
Body Dimension	Φ 84.7mm x (H)40.24mm	Φ 83mm x (H)116.4mm
Body Material	Aluminum alloy, RoHS compliant	
Weight	< 330g	
Power cable length	30cm	
Operating Environment	0~40°C	

\*In the interest of continually improving products, Lumos Tech. reserves the right to update or modify information contained in this manual without prior notice.  
\*The system only support and to be used with Canon or Nikon APS-C camera / 60mm macro lens for the best effect.



This picture is for reference only and the real object should be considered as final



### X-Core

Control unit, is for lighting set-up (includes Light Channel, Dimming Intensity, Status Display) and power input.

### 4X4 Barrel

Shooting the fingerprints photos in the standardized format.

- Equipping White light, Blue light, the inner / outer rings are switchable.
- Each ring equips 16 High Power LED.
- The diversification of lighting positions in 4-Quadrant provide 11 modes Illumination.
- 5-step dimming, intensity is from 0~100%.
- By quick-release magnet adapter to connect to DSLR camera.
- The barrel length is designed as a fixed working distance dedicated for the shooting of the latent fingerprint.



### AgileLite Ring

Attaching onto the lens front end, used for macro / micro shooting.

- Equipping selectable or customized excitation light sources, the inner / outer rings are switchable.
- Each ring equips 16 High Power LED.
- The diversification of lighting positions in 4-Quadrant provide 11 modes Illumination.
- 5-step dimming, intensity is from 0~100%.
- By quick-release magnet adapter to connect to DSLR camera.
- Rotate the Vari-focal Ring, to make illumination angle from 0 to 45 degree, the parallel light will concentrate to be the focused light.

### Goggles

Investigators should wear goggles with filter using any FLS. The type of goggle needed depends on the type of light used.

The goggle in conjunction with the light source as below:

Wavelength	Goggles
300-400 nm	Clear
415-445 nm	Yellow
455-515 nm	Orange
535-575 nm	Red



### Accessories List

<input type="checkbox"/> FALS-011	Protective Carrying Case (L)	X-Core x 2	AgileLite Ring x 5 365nm / 415nm / 470nm / 525nm / 840nm	4X4 Barrel x 3 415nm / 470nm / 525nm	Goggle x 4 Clear / Orange Yellow / Red	Filter x 4 LPR-C2 / LPA-C2 LPA-C6 / LPA-D0	
<input type="checkbox"/> FALS-012	Protective Carrying Case (L)	X-Core x 2	AgileLite Ring x 5 365nm / 415nm / 470nm / 525nm / 840nm	AgileLite Ring x 5 365nm / 415nm / 470nm / 525nm / 840nm	Goggle x 4 Clear / Orange Yellow / Red	Filter x 4 LPR-C2 / LPA-C2 LPA-C6 / LPA-D0	
<input type="checkbox"/> FALS-021	Protective Carrying Case (S)	X-Core x 1	AgileLite Ring x 1 White light + 470nm	4X4 Barrel x 1 White light + 470nm	Goggle x 1 Yellow or Orange	Filter x 1 LPA-C2 or LPA-C6	
<input type="checkbox"/> FALS-022	Protective Carrying Case (S)	X-Core x 1	AgileLite Ring x 1 White light + 470nm	AgileLite Ring x 1 White light + 470nm	Goggle x 1 Yellow or Orange	Filter x 1 LPA-C2 or LPA-C6	
<input type="checkbox"/> FALS-023	Protective Carrying Case (S)	X-Core x 1	AgileLite Ring x 1 White light + 470nm	4X4 Barrel x 1 White light + 470nm	Goggle x 1 Yellow or Orange	Filter x 1 LPA-C2 or LPA-C6	



### Color Imaging Filter

49mm.

Shipment ranging from 1 to 4 pieces, depending on the model (or custom).

Filter Module	Emission Range	Note
49-LPA-C2	520-900nm	long pass, absorption filter
49-LPA-C6	560-900nm	
49-LPA-D0	600-900nm	
49-LPR-C2	520-900nm	long pass, reflection filter

Distributor



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