

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 NOTE: Only use dedicated charger for X-core charging
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

Use in conjunction with X-core	AgileLite Ring				4X4 Barrel			
Channel & Light source	Channel	Light source			LED Brand			LED Number
	W	White light			High power Cree® LED, or Nichia CRI > 90			16
Dimming intensity	F	365nm / 415nm / 470nm 525nm / 840nm (wavelength depends on the type of products you order)			High power Cree®, Nichia or OSRAM, choose by wavelength			16
	General intensity is dimmable from 0% to 100% with 5-step dimming modes Only in the charging status of power adapter can enable the Turbo mode (6-step)							
Real current on LED (for dimming setting)	The adjustable LED driving current has the cycle mode from 0-step to 5-step							
	Unit	0-Step	1-Step	2-Step	3-Step	4-Step	5-Step	6-Step
	mA	0	8.6	12.2	17.5	29.9	44.1	56.5
Lighting Modes	%	0	20	28	40	68	100	128
	11 modes							
Mounting Method	Whole Ring mode x 1	Half Ring mode x 4		1:2 Brightness Ratio mode x 4		Diagonal Light mode x 2		
Color Temperature (White light)	5000K +/- 500 (angle 0°, distance 1.5cm)				5000K +/- 500 (angle 0°, distance 0cm)			
Luminance	9000lux +/- 500 (angle 0°, distance 1.5cm)				6000lux +/- 500 (distance 0cm)			
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			
Filter	49mm / Glass (NOTE: Filter frame outside diameter ≤ 54 mm / thickness ≤ 5 mm)							
Current Consumption	Less than chart value (unit: mA)							
	LED Color (wavelength)	0-Step	1-Step	2-Step	3-Step	4-Step	5-Step	6-Step
	370nm	15	150	200	280	460	670	850
	405nm	15	150	190	270	440	640	820
	470nm	15	120	160	220	360	520	650
	528nm	15	130	170	230	370	540	690
	840nm	15	80	100	130	210	300	380
	White(5000K)	15	220	300	420	700	1030	1330
White(4000K)	15	120	160	220	360	530	690	
Body Material	Aluminum alloy, RoHS compliant							
Body Dimension	Φ84.7mm x (H)40.24mm				Φ83mm x (H)116.4mm			
Weight	< 330g							
Power cable length	30cm							
Operating Environment	0~40°C							



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

	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
□ 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
□ FALS-012	Protective Carrying Case (L)	X-Core x 2	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
□ 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
□ FALS-022	Protective Carrying Case (S)	X-Core x 1	AgileLite Ring x 1 White light + 470nm	-----	Goggle x 1 Yellow or Orange	Filter x 1 LPA-C2 or LPA-C6
□ FALS-023	Protective Carrying Case (S)	X-Core x 1	-----	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

