






型號		2D LDAR (AmberD)	2D LiDAR(Sapphire_S)	2D LiDAR(SapphireS_S)	3D LiDAR(Amethyst_S)	3D LiDAR(Amethyst_EW)
外觀						
	Item	Specification	Specification	Specification	Specification	Specification
雷射及傳感器	傳感器型式	CMOS (single layer)	SPAD (single layer)	SPAD (single layer)	SPAD (16 layers)	2D CMOS
	雷射波長	780nm	808nm	905nm	905nm	850nm
	安規等級	Laser Class 1	Laser Class 1	Laser Class 1	Laser Class 1	Laser Class 1
電子	功耗	<2.5W	<2.5W	<3W	<7.5W	1W
	工作電壓	5V	5V	9~24V	9~24V	5V
馬達	馬達型式	DC motor	DC motor	DC Brushless motor	DC Brushless motor	~
性能	測距範圍	0.15m ~ 6m	0.2m~15m	0.2m~30m	0.2m~20m	0.3m~5m
	測距準確度	±1%(@ ≥ 0.15m & ≤ 3m) ±2%(@ >3m & ≤ 6m) (Target: 200gsm white matt art)	± 20 mm(@ <2 m) ± 30 mm(@ ≥ 2 m) (Target: 200gsm white matt art)	± 30 mm (Target: 200gsm white matt art paper)	± 30 mm (Target: 200gsm white matt art)	± 30 mm(@ <1 m) ± 2%(@ ≥ 1 m) (Target: 200gsm white matt art)
	視場角(垂直)	~	~	~	-8° to 8°	V:21°
	視場角(水平)	360°	360°	360°	360°	H:100°
	角解析度(垂直)	~	~	~	1°	V:0.75°
	角解析度(水平)	1°	0.5°	0.5°	0.5° / 1°	H:0.75°
	掃描頻率	5 (1°) Hz	5 (0.5°) Hz	10 (0.5°) Hz	5 (0.5°) / 10 (1°) Hz	30 fps
	重量(標準)	200 g	180 g	340 g	850 g	40 g
環境	尺寸(標準)	108(L)*76(W)*54.6(H) mm	108(L)*76(W)*51(H) mm	75(L)*75(W)*43.5(H) mm	80(L)*80(W)*75(H) mm	54(L)*43(W)*20.5(H) mm
	工作溫度	0°C ~ 40°C without condensaion	0°C ~ 40°C without condensaion	0°C ~ 40°C without condensaion	0°C ~ 40°C without condensaion	0~40 °C witout condensaion
	工作濕度	~93%RH without condensaion	~93%RH without condensaion	~93%RH without condensaion	~93%RH without condensaion	~93%RH witout condensaion
	儲存溫度	-20°C ~ 65°C	-20°C ~ 65°C	-20°C ~ 65°C	-20°C ~ 65°C	-20~65°C
介面	儲存濕度	~93%RH	~93%RH	~93%RH	~93%RH	~93%RH witout condensaion
	波特率	UART (115200 bps)	UART (345600bps)	UART (921600bps)	UART (2M)	UART (8M)
	內部連接器	~	~	6-pin: (1) 5V (4) TD- (2) GND (5) RX+ (3) TD+ (6) RX-	6-pin: (1) 5V (4) TD- (2) GND (5) RX+ (3) TD+ (6) RX-	~
外部連接器(外接盒)	12-pin connector: (1) Driver_+: Pin 1,2 (2) Driver_-: Pin 5,6 (3) Vcc_5V: Pin 9,10 (4) UART_TX : Pin 7,8 (5) GND: Pin 3,4,11,12	12-pin connector: (1) Driver_+: Pin 1,2 (2) Driver_-: Pin 5,6 (3) Vcc_5V: Pin 9,10 (4) UART_TX : Pin 7,8 (5) GND: Pin 3,4,11,12	(1) Ethernet (RJ-45) connector (2) 5V DC jack.	(1) Ethernet (RJ-45) connector (2) 12V DC jack.	10-pin connector: (1)VDD (2)GND (3)OUT1 (4)UART_TX (5)UART_RX (6)GND (7)GND (8)GND (9)VDDLED (10)VDDLED	