





X120^{GO} TECHNICAL FEATURES

The X120^{GO} is the latest generation system based on the SLAM technology, capable of covering any customer need. The range of up to 120 metres and a rotating head that maximises the coverage of the laser beam make it versatile for any environment. Equipped with 2 cameras and GNSS receiver for real-time point cloud colouring and orientation. The two cameras provide navigable and measurable panoramic cameras superimposed on the 3D model. The system allows for the survey of static scans in X-Whizz mode, automatically aligned to the SLAM survey. Backpack, shoulders hook, car mount and UAV mount for DJI M350 can complete the system.

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LIDAR	
Sensor Model	Hesai XT16
Max Range	120 m
Min Range	0.5 m
Return number	2
Scanning Point	320.000 pts/s (single return)
Frequency	640.000 pts/s (dual return)
Field of view	360° x 290°
Laser Class	Class 1 eye-safe per IEC/EN 60825-1:2014
Channels	16

Up to 6mm ¹
Up to 2cm ¹
5cm on UAV platform ¹
Ground & wall
512GB SSD
Wi-fi, Bluetooth, USB type-c, Lemo connector
SLAM & X-Whizz modes,
real-time visualisation (colored and oriented)
Real-time processing
Post-processing with GOpost ²

COLOR CAMERA

Wavelength

N° of pixels	24 Mpx (2 cameras, 12 Mpx each)
Diagonal FOV	210°
Focal length	1.26 mm
Resolution	4000x3000 px
Sensor size	1/2.3 inch
Pixel size	1.55 μ m

905nm

ELECTRICAL SPECIFICATION

Power consumption	26W	
System supply voltage	20V	
Operating time ³	1.2 h (single battery)	
External power	USB type-c	
Battery input voltage	5-20V	
Battery output voltage	10.8V	
Battery capacity	3000mAh	

GNSS RECEIVER

Satellites Signal	GPS L1 C/A/L2P(Y)/L2C/L5
	GLONASS L1/L2
	Galileo E1/E5a/E5b
	BDS B1I/B2I/B3I
	QZSS L1/L2/L5
DGPS (RMS)	Horizon. 0.4 m+1 ppm
	Vertical 0.8 m+1 ppm
RTK (RMS)	Horizon. 0.8cm+1ppm
	Vertical 1.5cm+1ppm
Speed accuracy (RMS)	0.03m/s

PHYSICAL SPECIFICATION

Weight	1.6 kg (without battery)
	2.1 kg (with battery)
Size	404 mm x 170mm x 188mm
Operating temperature	-20°C to +50°C (-4°F to 122°F)
Operating humidity	<95%
Waterproof/Dustproof	IP54
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- 1. Environment dependent
- 2. Any CPU, only NVIDIA GPU
- 3. SLAM only, no external platforms

PLATFORM/EXTENSION

Backpack	✓
GNSS module	Integrated
360° camera	Integrated
	Insta X360 X4/X5/DJI Osmo360
Vehicle mount	✓
UAV	DJI M300/350
Radio Modem	Stonex SR02

BUNDLED SOFTWARE





GOapp is dedicate mobile application for Stonex SLAM scanners, to manage projects, real time point cloud display, image preview, firmware upgrade and other operations. The APP runs on Android and iOS operating system.



GOpost

Windows post processing software which performs optimization processing, colouring of point clouds and creation of panoramic images. You can also import control points to georeference the point cloud.



Illustrations, descriptions and technical specifications are not binding and may change



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