

X200^{GO} Laser Scanner 3D Handheld Laser Scanner



X200^{GO} TECHNICAL FEATURES

The X200^{GO} is the latest generation system based on the SLAM technology, capable of covering any customer need.

The range of up to 300 metres and a rotating head that maximises the coverage of the laser beam make it versatile for any environment. Equipped with 2 cameras and RTK 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 holder for DJI M350 can complete the system.

Laser Class1Processing modeReal-time processing Post-processing Post-processing with GOpost 2Wavelength905nmELECTRICAL SPECIFICATIONCOLOR CAMERAN° of pixels24 Mpx (2 cameras, 12 MPx each)System supply voltage20VDiagonal FOV210°Operating time 31.2 h (single battery)Focal length1.26 mmExternal powerUSB type-cResolution4000x3000 pxBattery input voltage5-20VSensor size1/2.3 inchBattery output voltage10.8VPixel size1.55 μmBattery capacity3000mAhGNSS RECEIVERPHYSICAL SPECIFICATIONGONSS RECEIVERPHYSICAL SPECIFICATIONSatellites SignalGalileo E1/E5A/E5B BDS B1I/B2I/B3I QZSS L1/L2/L5Size403.6 mm x 173.8mm x 170mmDGPS (RMS)Horizon 0.4 m+1 ppm Vertical 0.8 m+1 ppmWaterproof/DustproofIP54RTK (RMS)Horizon 0.8 cm+1 ppm Vertical 1.5 cm+1 ppmWaterproof/DustproofIP54RTK (RMS)Horizon 0.8 cm+1 ppm Vertical 1.5 cm+1 ppmLenvironment dependent	LIDAR		SYSTEM		
Min Range 0.5 m Global accuracy Scm on UAV platform¹	Sensor Model	Hesai XT32M2X	Relative accuracy	Up to 6mm ¹	
Return number 3	Max Range	300 m	Global accuracy	Up to 2cm ¹	
Scanning Point Single Ret.: 640,000 pts/s Dual Rett.: 1.280,000 pts/s Triple Ret.: 1.280,000 pts/s Triple Ret.: 1.2920,000 pts/s Triple Ret.: 1.2920,000 pts/s Triple Ret.: 1.2920,000 pts/s SIAM & X-Whizr modes, Real-time visualisation, colouring and orientation Laser Class 1	Min Range	0.5 m		5cm on UAV platform ¹	
Scanning Point Frequency Dual Ret.: 1.280.000 pts/s Triple Ret: 1.920.000 pts/s Communication Wi-fi, Bluetooth, USB type-c, Lemo connector SLAM & X-Whizz modes, Real-time visualisation, colouring and orientation Real-time visualisation, colouring and orientation Real-time processing Field of view 360° x 270° Processing mode Real-time visualisation, colouring and orientation Real-time processing Laser Class 1 Processing mode Real-time processing with GOpost 2 Wavelength 905nm Post-processing with GOpost 2 ELECTRICAL SPECIFICATION Power consumption 26W Post-processing with GOpost 2 ELECTRICAL SPECIFICATION Power consumption 26W System supply voltage 20V Diagonal FOV 210° Operating time 3° 1.2 In (single battery) Focal length 1.26 mm External power USB type-c Resolution 4000x3000 px Battery input voltage 5-20V Sensor size 1/2.3 inch Battery output voltage 10.8V PHYSICAL SPECIFICATION We	Return number	3	Control point support	Ground & wall	
Frequency		Single Ret.: 640.000 pts/s	Data storage	512GB SSD	
Field of view 360° x 270° Operating mode SLAM & X-Whizz modes, Real-time visualisation, colouring and orientation laser Class 1 Channels 32 Wavelength 905nm COLOR CAMERA N° of pixels 24 Mpx (2 cameras, 12 MPx each) Power consumption 26W Diagonal FOV 210° Operating time 3 1.2 h (single battery) Focal length 1.26 mm External power USB type-c Resolution 4000x3000 px Battery input voltage 5-20V Sensor size 1/2.3 inch Battery output voltage 10.8V Pixel size 1.55 \(\mu\) m Battery capacity 3000mAh GNSS RECEIVER GONASS 61/G2 Satellites Signal Galileo E1/E5A/E5B BDS B1/B2I/B31 QZSS L1/L2/L5 DGPS (RMS) Real-time visualisation, colouring and orientation Real-time processing with GOpost 2 Real-time visualisation, colouring and orientation and colouring and colouring teal-time visualisation, colouring and orientation and colouring and colouring teal-time visualisation, colouring and colouring teal-time visualisation, colouring and colouring teal-time visualisation, colouring and colouring teal-time visualisation, colouring teal-time visualisation, colouring teal-time visualisation, colouring teal-time			Communication	Wi-fi, Bluetooth, USB type-c, Lemo connector	
Real-time visualisation, colouring and orientation			Operating mode	SLAM & X-Whizz modes,	
Channels32Processing modeProcessing with GOpost 2Wavelength905nmELECTRICAL SPECIFICATIONCOLOR CAMERAPower consumption26WN° of pixels24 Mpx (2 cameras, 12 MPx each)System supply voltage20VDiagonal FOV210°Operating time 31.2 h (single battery)Focal length1.26 mmExternal powerUSB type-cResolution4000x3000 pxBattery input voltage5-20VSensor size1/2.3 inchBattery output voltage10.8VPixel size1.55 μmBattery capacity3000mAhGNSS RECEIVERPHYSICAL SPECIFICATIONGNSS RECEIVERPHYSICAL SPECIFICATIONSatellites SignalGalileo E1/E5A/E5B BDS B1/B21/B31 QZSS L1/L2/L5Weight Size1.4 kg (without battery) 1.9 kg (with battery)DGPS (RMS)Horizon 0.4 m+1 ppm Vertical 0.8 m+1 ppmOperating temperature Vertical 0.8 m+1 ppm-20°C to +50°C (-4°F to 122°F)RTK (RMS)Horizon 0.8cm+1ppm Vertical 1.5cm+1ppmWaterproof/DustproofIP541. Environment dependent	Field of view	360° x 270°		Real-time visualisation, colouring and orientation	
Color camera ELECTRICAL SPECIFICATION COLOR CAMERA ELECTRICAL SPECIFICATION N° of pixels 24 Mpx (2 cameras, 12 MPx each) System supply voltage 20V Diagonal FOV 210° Operating time ³ 1.2 h (single battery) Focal length 1.26 mm External power USB type-c Resolution 4000x3000 px Battery input voltage 5-20V Sensor size 1/2.3 inch Battery output voltage 10.8V Pixel size 1.55 μm Battery capacity 3000mAh GNSS RECEIVER PHYSICAL SPECIFICATION Weight 1.4 kg (without battery) GLONASS G1/G2 Size 403.6 mm x 173.8 mm x 170 mm Satellites Signal Galileo E1/E5A/E5B Size 403.6 mm x 173.8 mm x 170 mm DGPS (RMS) Horizon 0.4 m+1 ppm Waterproof/Dustproof IP54 Waterproof/Dustproof IP54 RTK (RMS) Horizon 0.8 m+1 ppm Vertical 1.5cm+1ppm 1. Environment dependent	Laser Class		Processing mode	Real-time processing	
ELECTRICAL SPECIFICATIONCOLOR CAMERAPower consumption 26WN° of pixels 24 Mpx (2 cameras, 12 MPx each)System supply voltage 20VDiagonal FOV 210°Operating time 3 1.2 h (single battery)External power USB type-cResolution 4000x3000 pxBattery input voltage 5-20VSensor size 1/2.3 inch Battery output voltage 10.8VPixel size 1.55 μmBattery capacity 3000mAhPHYSICAL SPECIFICATIONGNSS RECEIVERPHYSICAL SPECIFICATIONSatellites Signal Galileo E1/E5A/E5B BDS B1/B2I/B3I QZSS L1/L2/L5Weight 1.4 kg (without battery)Size 403.6 mm x 173.8mm x 170mmOperating temperature -20°C to +50°C (-4°F to 122°F)Operating humidity <95%	Channels			Post-processing with GOpost ²	
COLOR CAMERAPower consumption 26WN° of pixels24 Mpx (2 cameras, 12 MPx each)System supply voltage20VDiagonal FOV210°Operating time ³1.2 h (single battery)Focal length1.26 mmExternal powerUSB type-cResolution4000x3000 pxBattery input voltage5-20VSensor size1/2.3 inchBattery output voltage10.8VPixel size1.55 μmBattery capacity3000mAhPHYSICAL SPECIFICATIONWeight1.4 kg (without battery)GONASS G1/G2Weight1.9 kg (with battery)Satellites SignalGalileo E1/E5A/E5BSize403.6 mm x 173.8mm x 170mmBDS B1I/B2I/B3I QZSS L1/L2/L5Operating temperature-20°C to +50°C (-4°F to 122°F)DGPS (RMS)Horizon 0.4 m+1 ppmVertical 0.8 m+1 ppmRTK (RMS)Horizon 0.8cm+1ppmWaterproof/DustproofIP541. Environment dependent	Wavelength	905nm			
N° of pixels 24 Mpx (2 cameras, 12 MPx each) System supply voltage 20V Diagonal FOV 210° Operating time ³ 1.2 h (single battery) Focal length 1.26 mm External power USB type-c Resolution 4000x3000 px Battery input voltage 5-20V Sensor size 1/2.3 inch Battery output voltage 10.8V Pixel size 1.55 μ m Battery capacity 3000mAh GNSS RECEIVER PHYSICAL SPECIFICATION Weight 1.4 kg (without battery) GLONASS G1/G2 Weight 1.9 kg (with battery) Size 403.6 mm x 173.8mm x 170mm Operating temperature -20°C to +50°C (-4°F to 122°F) Operating humidity <95%			ELECTRICAL SPECIFIC	ELECTRICAL SPECIFICATION	
Diagonal FOV210°Operating time ³1.2 h (single battery)Focal length1.26 mmExternal powerUSB type-cResolution4000x3000 pxBattery input voltage5-20VSensor size1/2.3 inchBattery output voltage10.8VPixel size1.55 μ mBattery capacity3000mAhGNSS RECEIVERGPS L1 C/A/L2P(Y)/L2C/L5 GLONASS G1/G2Weight1.4 kg (without battery)Satellites SignalGalileo E1/E5A/E5BSize403.6 mm x 173.8mm x 170mmBDS B1/B2I/B3I QZSS L1/L2/L5Operating temperature Operating temperature -20°C to +50°C (-4°F to 122°F)DGPS (RMS)Horizon 0.4 m+1 ppm Vertical 0.8 m+1 ppmWaterproof/DustproofIP54RTK (RMS)Horizon 0.8cm+1ppm Vertical 1.5cm+1ppm1. Environment dependent			Power consumption	26W	
Focal length 1.26 mm External power USB type-c Resolution 4000x3000 px Battery input voltage 5-20V Sensor size 1/2.3 inch Battery output voltage 10.8V Pixel size 1.55 μm Battery capacity 3000mAh GNSS RECEIVER GPS L1 C/A/L2P(Y)/L2C/L5 GLONASS G1/G2 Satellites Signal Galileo E1/E5A/E5B BDS B11/B21/B3I QZSS L1/L2/L5 QCSS L1/L2/L5 QDerating temperature -20°C to +50°C (-4°F to 122°F) QZSS L1/L2/L5 QDerating humidity <95% Horizon 0.4 m+1 ppm Vertical 0.8 m+1 ppm RTK (RMS) Horizon 0.8cm+1ppm Vertical 1.5cm+1ppm 1. Environment dependent	N° of pixels	24 Mpx (2 cameras, 12 MPx each)	System supply voltage	20V	
Resolution4000x3000 pxBattery input voltage5-20VSensor size1/2.3 inchBattery output voltage10.8VPixel size1.55 μ mBattery capacity3000mAhGNSS RECEIVERPHYSICAL SPECIFICATIONGPS L1 C/A/L2P(Y)/L2C/L5 GLONASS G1/G2Weight 1.4 kg (without battery)Satellites SignalGalileo E1/E5A/E5BSize 403.6 mm x 173.8mm x 170mmBDS B1I/B2I/B3I QZSS L1/L2/L5Operating temperature -20°C to +50°C (-4°F to 122°F)OGPS (RMS)Horizon 0.4 m+1 ppm Vertical 0.8 m+1 ppmWaterproof/DustproofIP54RTK (RMS)Horizon 0.8cm+1ppm Vertical 1.5cm+1ppm1. Environment dependent	Diagonal FOV	210°	Operating time ³	1.2 h (single battery)	
Sensor size 1/2.3 inch Battery output voltage 10.8V Pixel size 1.55 μ m Battery capacity 3000mAh Physical specification GPS L1 C/A/L2P(Y)/L2C/L5 GLONASS G1/G2 Size 403.6 mm x 173.8mm x 170mm Battery capacity 3000mAh PHYSICAL SPECIFICATION Weight 1.4 kg (without battery) 1.9 kg (with battery) 1.9 kg	Focal length	1.26 mm	External power	USB type-c	
Pixel size 1.55 μ m Battery capacity 3000mAh GNSS RECEIVER GPS L1 C/A/L2P(Y)/L2C/L5 GLONASS G1/G2 Satellites Signal Galileo E1/E5A/E5B Substituting Substituting Signal QZSS L1/L2/L5 Operating temperature -20°C to +50°C (-4°F to 122°F) Operating humidity <95% Waterproof/Dustproof IP54 DGPS (RMS) Horizon 0.8 m+1 ppm Vertical 0.8 m+1 ppm Vertical 1.5 cm+1ppm Vertical 1.5 cm+1ppm 1. Environment dependent	Resolution	4000x3000 px	Battery input voltage	5-20V	
PHYSICAL SPECIFICATION	Sensor size	1/2.3 inch	Battery output voltage	10.8V	
GPS L1 C/A/L2P(Y)/L2C/L5	Pixel size	1.55 μ m	Battery capacity	3000mAh	
Satellites Signal GLONASS G1/G2 Size 403.6 mm x 173.8mm x 170mm	GNSS RECEIVER		PHYSICAL SPECIFICA	TION	
GLONASS G1/G2 1.9 kg (With Battery)	Satellites Signal	GPS_L1_C/A/L2P(Y)/L2C/L5		1.4 kg (without battery)	
BDS B1/B2/B3 Operating temperature -20°C to +50°C (-4°F to 122°F)		GLONASS G1/G2			
QZSS L1/L2/L5 Operating humidity <95% DGPS (RMS) Horizon 0.4 m+1 ppm Vertical 0.8 m+1 ppm Waterproof/Dustproof IP54 RTK (RMS) Horizon 0.8cm+1ppm Vertical 1.5cm+1ppm 1. Environment dependent		Galileo E1/E5A/E5B	Size		
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DGPS (RMS) Vertical 0.8 m+1 ppm Horizon 0.8cm+1ppm Vertical 1.5cm+1ppm 1. Environment dependent		QZSS L1/L2/L5	Operating humidity	<95%	
RTK (RMS) Horizon 0.8cm+1ppm Vertical 1.5cm+1ppm Vertical 1.5cm+1ppm 1. Environment dependent	DGPS (RMS)	Horizon 0.4 m+1 ppm	Waterproof/Dustproof	IP54	
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vertical 1.5cm+1ppm 1. Environment dependent		Horizon 0.8cm+1ppm			
0 1 (0) 10) 0.00 (1. Environment depe	1. Environment dependent	
	Speed accuracy (RMS)	0.03m/s	2. Any CPU, only NVIDIA GPU		

BUNDLED SOFTWARE

GOapp



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

3. SLAM only, no external platforms



STONEX AUTHORIZED DEALER

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