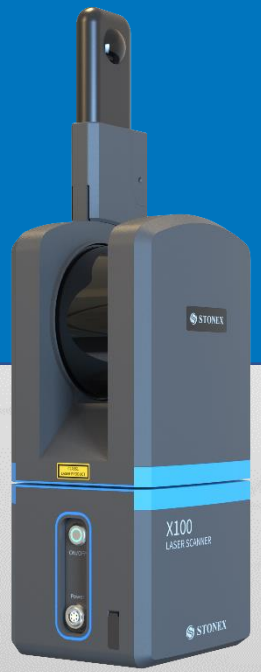
UniStrong

X100



STONEX

Federica Pederzani

Product specialist

Main Features

X100 – Tripod laser scanner

X100 is a small and compact terrestrial laser scanner, quick and easy to use.

Its multi-line lidar technology and ability to achieve complete coverage of the surrounding area enable it to calculate 3D models for a wide range of applications and scenarios, both outdoors and indoors.

The scanner comes with its own X100app field app, making it easy to control the device. Thanks to the scan converter, the data is compatible with Cube-3d and Stonex Reconstructor, as well as third-party software.

The X100 is the perfect tool for quick topographic surveys, scans of building facades and data collection for floor plans; a quick 360° scan takes as few as 45 seconds.

The built-in panoramic camera allows you to add true colour to your scans.

X100 – Software

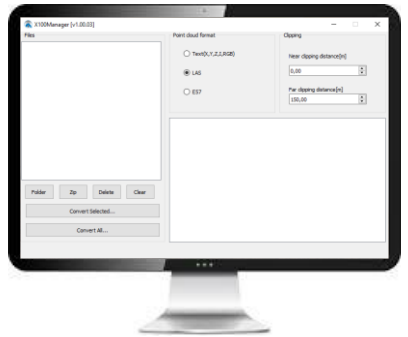
X100*app*

X100*app* is dedicate mobile application for X100, to manage projects, real time point cloud display, image preview and other operations.

The APP runs on Android operating system.

X100*Manager*

Converter for Windows which outputs *.las and structured *.e57 formats.

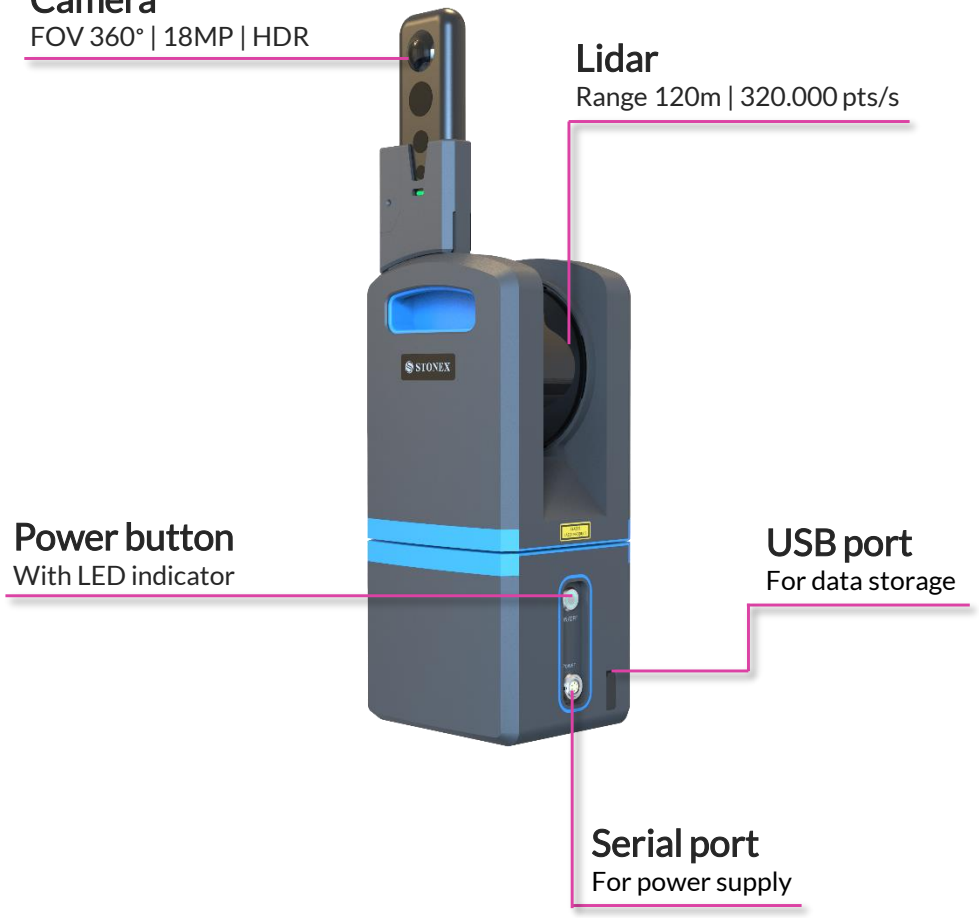


X100 – Scan modes

MODE	DURATION
High *	225 s
Normal	225 s
	150 s
	90 s
	45 s

* High mode provides more accurate results

X100 – Component introduction



X100 – Sensor parameters

X100	
Range	0.5 - 120 m
Vertical resolution	16 channels
Point frequency	320.000 pts/s
Field of View	360° x 268°
Measuring mode	2 modes: High and Normal
Collection time	From 45s to 225s
Relative accuracy	Up to 6mm *
Horizontal resolution Vertical resolution	2° 0.18°
Dual axis tilt compensation	± 5°

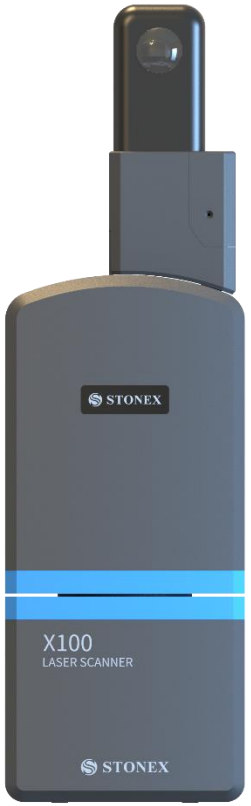
* In controlled environment, using High mode

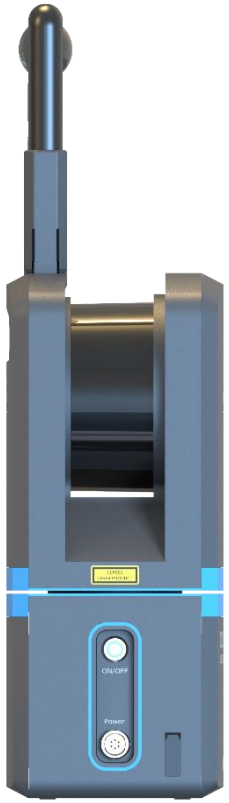
X100 – Physical specifications

X100	
Communication	Wi-fi
Data storage	U-Disk 64GB
Dimension	125 mm x 113 mm x 275 mm
X100 Weight	3,2 g
Total case weight	6,2 kg
Tripod Weight	1,92 kg
Operating temperature	0° C to +40° C (32° F to 104° F)
Waterproof/Dustproof	IP54

Marketing

X100 - Pictures





X100 - Brochure

X100 TECHNICAL FEATURES

LASER	
Max Range	120 m
Min Range	0,5 m
Vertical Resolution	16 channels
Scanning Point Frequency	320.000 pts/s
Scan Principle	ToF
Field of View	Horizontal 360° Vertical 268°
Laser Class	Class 1
Wavelenght	905nm

PERFORMANCE	
Measuring Mode	2 modes: Selected and Full
Collection Time	From 45s to 225s
Relative Accuracy	Up to 6 mm[1]
Resolution	6 mm @10 mm
Dual axis tilt compensation	± 5°

CAMERA	
Dimension	66 mm x 22.5 mm x 160 mm
FOV	360°
Resolution	18MP (6080x3040)
Management	Integrated in X100app

SYSTEM	
Data Storage	U-Disk 64GB
Operation Mode	Realtime visualization (Android 10 or above)
Communication	Wi-Fi

ELECTRICAL SPECIFICATION	
Power Consumption	28W
Operating Time	6h (2 batteries set - 3h each set)[2]
Capacity	3350mAh x4

PHYSICAL SPECIFICATION	
Operating Temperature	0°C to +60°C (+32°F to +104° F)
Storage Temperature	-20°C to +60°C (-4°F to +140° F)
Waterproof/Dustproof	IP54
X100 Weight	3,2 kg
X100 Size	125 mm x 113 mm x 275 mm
Case Weight	3 kg
Case Size	428 mm x 350 mm x 230 mm
Tripod Weight	1,92 kg
Tripod Height	1,5 m

1. In controlled environment.
2. Tested at 20°C (25°C), charging time and duration will vary depending on conditions.

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

STONEX AUTHORIZED DEALER

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STONEX

X100 Laser Scanner

Small & Light
Laser Scanner

cube suite

X100 Light & Fast

X100 is a small and compact terrestrial laser scanner that is quick and easy to use.

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The built-in panoramic camera allows you to add true colour to your scans.

STONEX

LASER SCANNING SOLUTIONS

SMALL AND LIGHT
The scanner can be easily used by a single person thanks to its small size and weight of approximately 3 kg.

WIRELESS CONTROL
Through the dedicated APP it is possible to control the device remotely. Scan with one click and check quality via real-time preview.

PANORAMIC HRD CAMERA
Add colour to your scan.

SELF CALIBRATING
± 5 degrees tilt supplement angle for precise leveling. Monitor scanner leveling via electronic bubble available on the app.

FAST SCAN & DOWNLOAD
A 360° one-stop scan requires only 45 s. Data are saved on USB dongle directly. Post-processing begins after field work!

APPLICATIONS

X100 is the perfect instrument for efficient and precise work in a wide range of applications:

Land & Excavation
Terrain Elevation Models, Volume calculation, Tunnels, Profiles and Contours.

Architecture & Real Estate
Floor plans, Sections, facade scanning.

Emergency Management
Assestment and support of Emergency Response Planning.

3D SOFTWARE

cube·3d

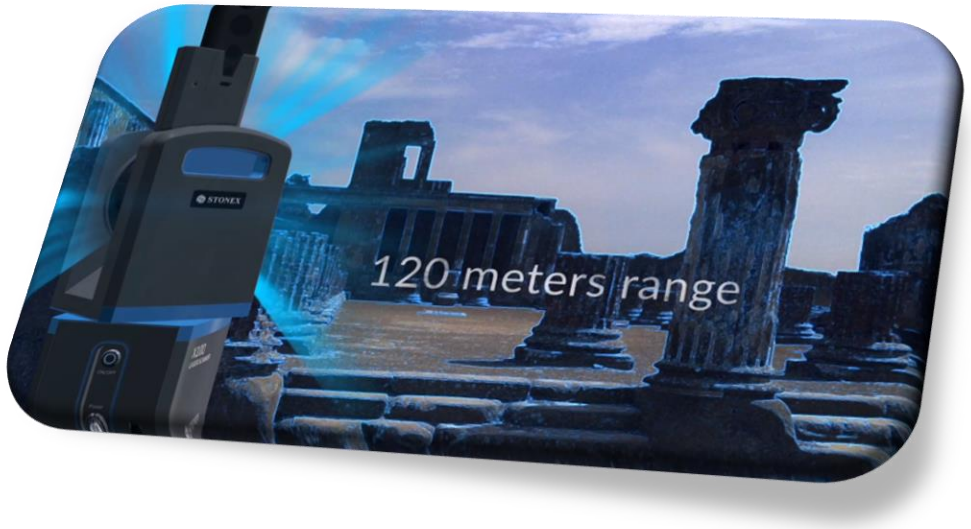
Cube-3d is a Photogrammetric software for mapping and aerial image processing, dedicated to land surveying specialists. It will transform image data into highly accurate digital maps and 3D models with extreme precision. It imports Cube-a surveys and is fully compatible with registered Stonex scans and with any third-party 3D models.

STONEX
3D RECONSTRUCTOR

The Stonex Reconstructor software allows you to manage and align point clouds acquired through laser scanners or other sensors (such as Stonex handheld scanners), clouds produced by photogrammetry and in general any point cloud. Complete and clear workflows will guide you during the processing and the expandable modules are able to meet different needs, covering many fields, such as: surveying, mining, construction, architecture, cultural heritage, BIM, galleries etc.

X100 - Video

COMPACT
PERFORMANCE
X100 LASER SCANNER
STONEX


120 meters range

Multi line full dome lidar
320.000 points/s

Configuration

X100 – Standard Configuration

PRODUCT CODE	DESCRIPTION	Q.TY
B60-200415	**X100 Laser scanner**	1
30-350662	Lithium battery	2
30-350661	Power cable (mainframe and battery)	1
30-350292	Power adapter with 4 plugs	1
30-350669	Panoramic camera and holder	1
30-350663	Tripod	1
30-350664	Tripod adapter for scanner	1
30-350666	U-disk 64GB	1
n\a	X100*app* Software	-
30-350667	X100*Manager* Dongle	1
30-350668	Transport case	1

X100 – Suggested software

X100Manager

STONEX 3D RECONSTRUCTOR

cube·3d v. 2.16 *

Autodesk Recap

Mining applications → cube·3d

AEC / BIM applications → PointCab POINT CLOUD PROCESSING SOFTWARE

3rd party software

* Cube-3d next update will include registration tools. Soon available!

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Competitors

X100 - Competitors

TRIPOD SCANNER				
Update September 2022	STONEX	Leica Geosystems	Leica Geosystems	GreenValley International
	X100	BLK360 G1	New BLK360	LiPod
Max range	120m	60m	45m	100m
Lidar FOV (H×V)	360°x 268°	360°x 270°	360°x 270°	360°x 270°
Laser Class	1	1	1	1
Points/sec	320,000	360,000	680,000	300,000
Relative accuracy	6 mm @10m	6 mm @10m	4 mm @10m	<3cm
Camera	1	3	4	1
Scanning time	45s	60s	20s	N\A
Data transfer	USB	Wi-fi	Wi-fi & USB	Ethernet
Memory	External, 64GB	Internal, 32GB	Internal, 32GB	External, 128 GB
Battery duration	6h (2 batteries)	2h	70 setups	4h (2 batteries)
Operating temperature	0℃ to +40℃	5℃ to +40℃	0℃ to +40℃	-10℃ to +40℃
IP	IP54	IP54	IP54	N\A
Weight	3 kg	1.1kg	0,75 kg	3,5 kg
Size	275 x 125 x 113 mm	165 x 100 x 100 mm	155 x 80 x 80 mm	375x150x150 mm
Output	*.las / Structured *.e57	Depending to workflow	Depending to workflow	*.las /*.laz / *.ply

Legend		
		Competitor is worst
		Competitor is better

STONEX

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