X70GO

STONEX

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X70^{GO} - New era of hybrid scanning

X70^{GO} is a real-time 3D model reconstruction device which integrates inertial navigation module, high performance computer and storage system.

It is equipped with a 360° rotating head, which, combined with the SLAM algorithm, generates high-precision point cloud data.

A 12MP RGB camera provides texture information, while a visual camera guarantees stronger real time preview with GO*app*.

Mapping results are generated immediately inside the scanner, right after scanning: choose if you want to color them and improve their accuracy, postprocessing with GO*post* software.

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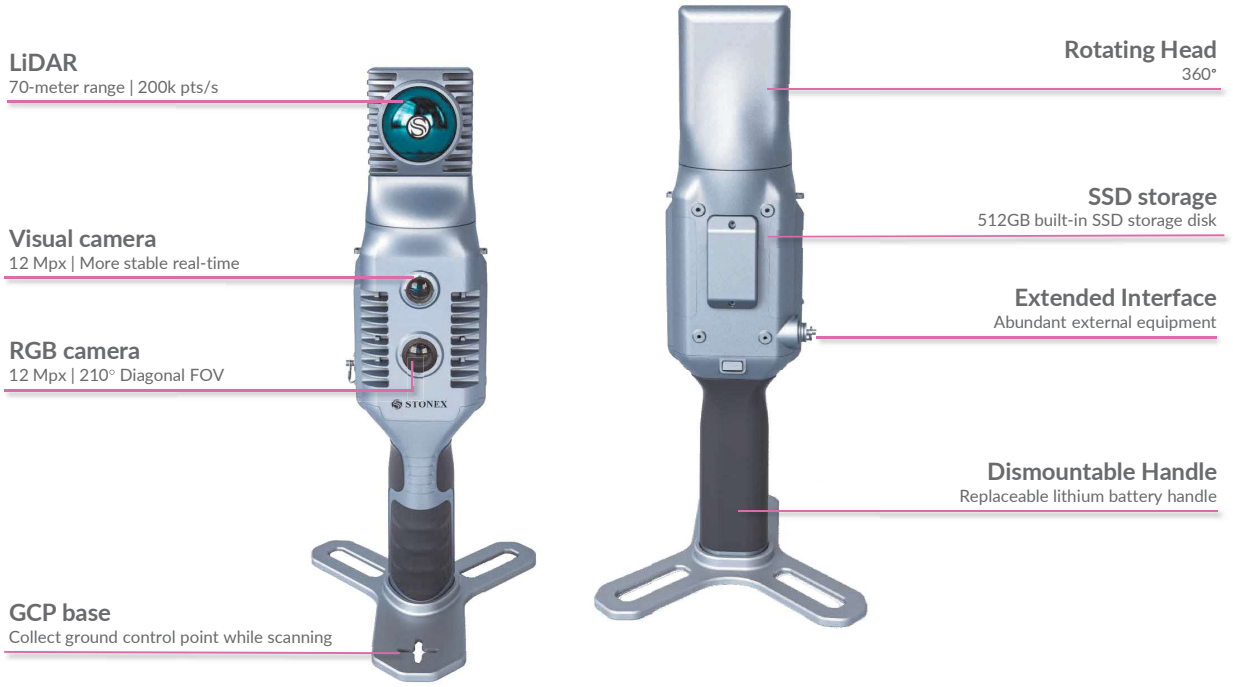
SLAM X70^{GO}
HANDHELD 3D SCANNER

X-WHIZZ MODE

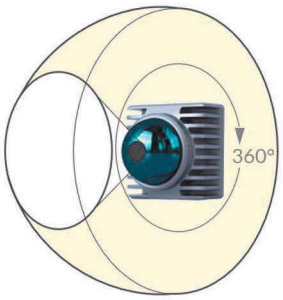
The system's big innovation is the hybrid scanning: combine advantages of SLAM mode with resolution of a static scan, by using the X-Whizz mode.

X70^{GO} - Component introduction

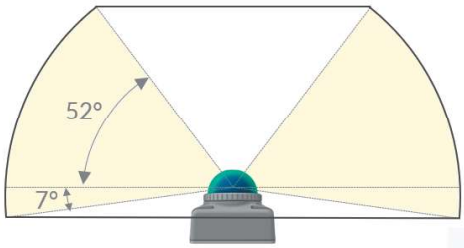


X70^{GO} – Technical specifications

LiDAR	
Range	0.1 – 70 m
Scanning point frequency	200.000 pts/s
Field of view	360° H, -7~52° V
Laser class	1



LiDAR Horizontal FOV



LiDAR Vertical FOV

X70^{GO} FOV

X70^{GO} – Technical specifications

RGB Camera	
Pixels	12 Mpx
Diagonal FOV	210°
Focal Length	1.26mm
Resolution	4000x3000

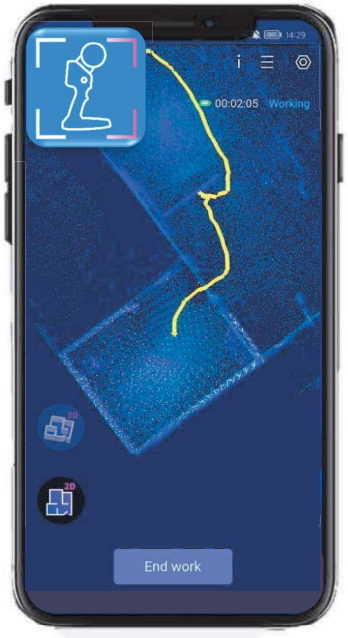
Visual Camera	
Pixels	12 Mpx
Diagonal FOV	100°
Focal Length	3.24mm
Resolution	4000x3000

X70^{GO} – Technical specifications

System	
Relative accuracy	6mm *
Communication	Wi-fi, USB type-c, LEMO
Data storage	512GB SSD
Operating time	1.5h (each battery)
Weight	925g (without battery) 1450g (with battery)
Dimention	364.5 x 173.8 x 170 mm
Operating temperature	-20° C to +50° C (-4° F to 122° F)
Waterproof/Dustproof	IP54

*Environment dependent

X70^{GO} – Data collection

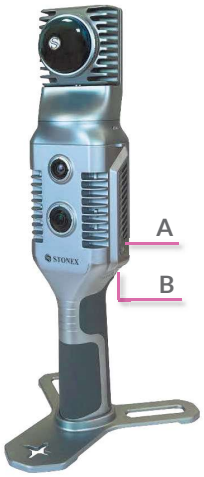


GO*app*

GO*app* is dedicate mobile application for X70^{GO}, to manage projects, real time point cloud display, image preview, firmware upgrade and other operations.

The APP runs on Android devices.

	Device only	GO*app*
Start/stop scanning	A	✓
X-Whizz mode	B + 10sec	
GCP collection	B + 10sec	✓



X70^{GO} – Software

	Real time	GO*post*
Colored point cloud	✕	✓
GCP compensation	✕	✓
Relative accuracy	1cm	6mm

GO*post*

Windows post processing software which performs:

- Processing optimization
- Coloring of point clouds
- Rototranslation/Elastic compensation on GCP
- GNSS trajectory integration
- Denoising/filtering

X70^{GO}
New features

X-Whizz Mode

X70^{GO} combines quick mobile survey with stationary scans, providing denser and more detailed data.

Visual Camera

The built-in visual camera makes the real time SLAM algorithm more stable, especially in weak structural textures environments.

Data ready in the field

The system can directly output the mapping results after the acquisition is completed.
Choose to post-process the data, for improving accuracy.

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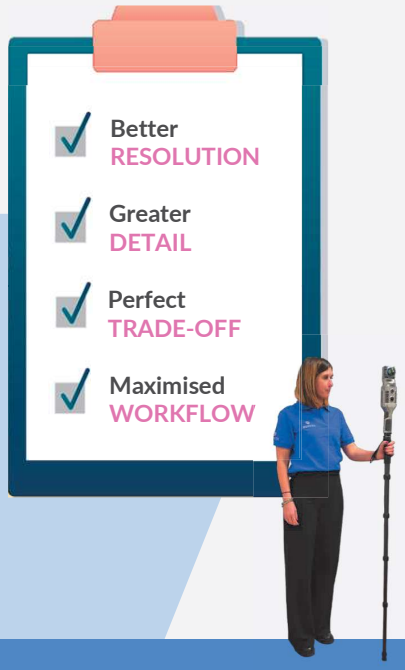
X-WHIZZ MODE



Walk around around the scene to collect the entire point cloud, using SLAM technology.

If you need more details in some key areas, attach the X70^{GO} on a monopod and stand still to perform a static scan with the **X-Whizz** mode. All the data will be perfectly superimposed and ready to be used.

X70GO is the perfect trade-off for who needs **speed and details** in a mobile survey!

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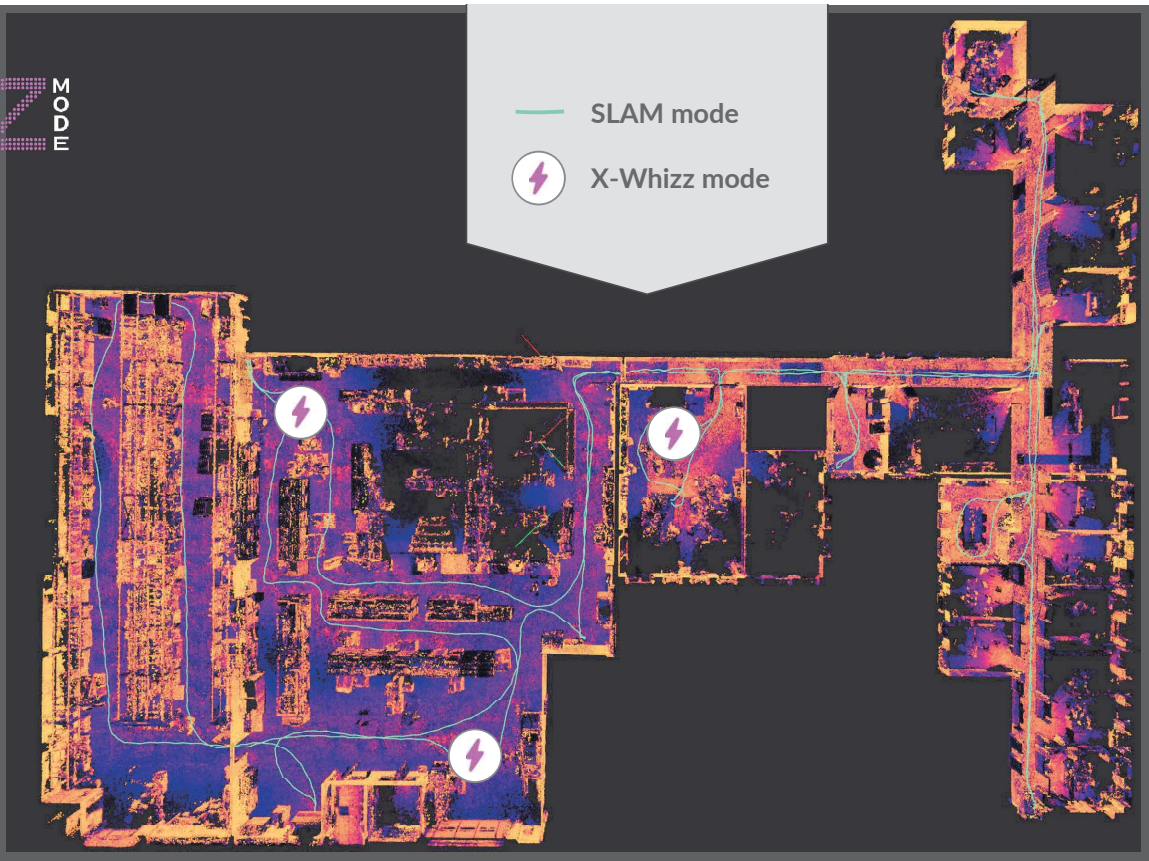
X-WHIZZ MODE



Hybrid survey
SLAM + X-Whizz

SLAM: 8 minutes
X-Whizz: 80 secs each

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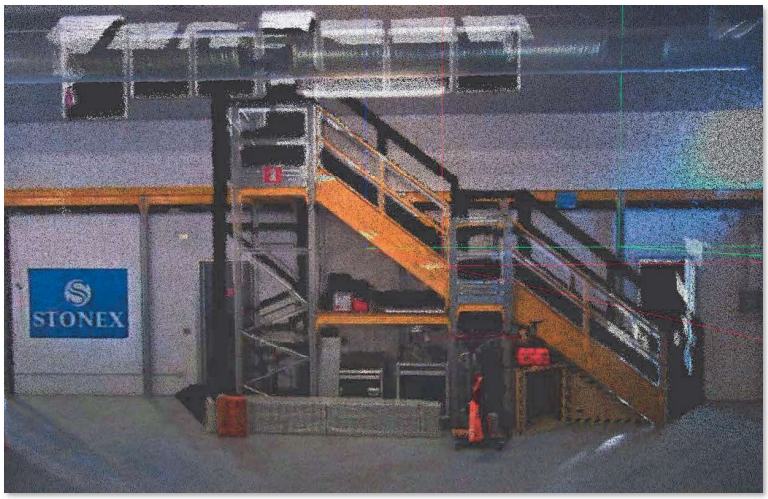
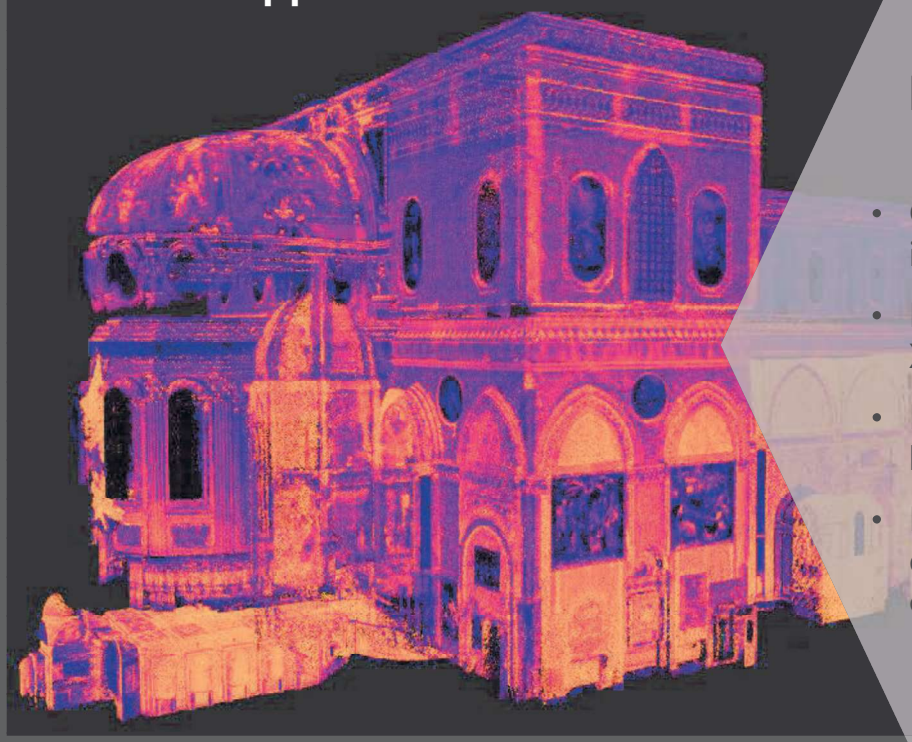
X-WHIZZ MODE

X-Whizz mode:



SLAM mode:

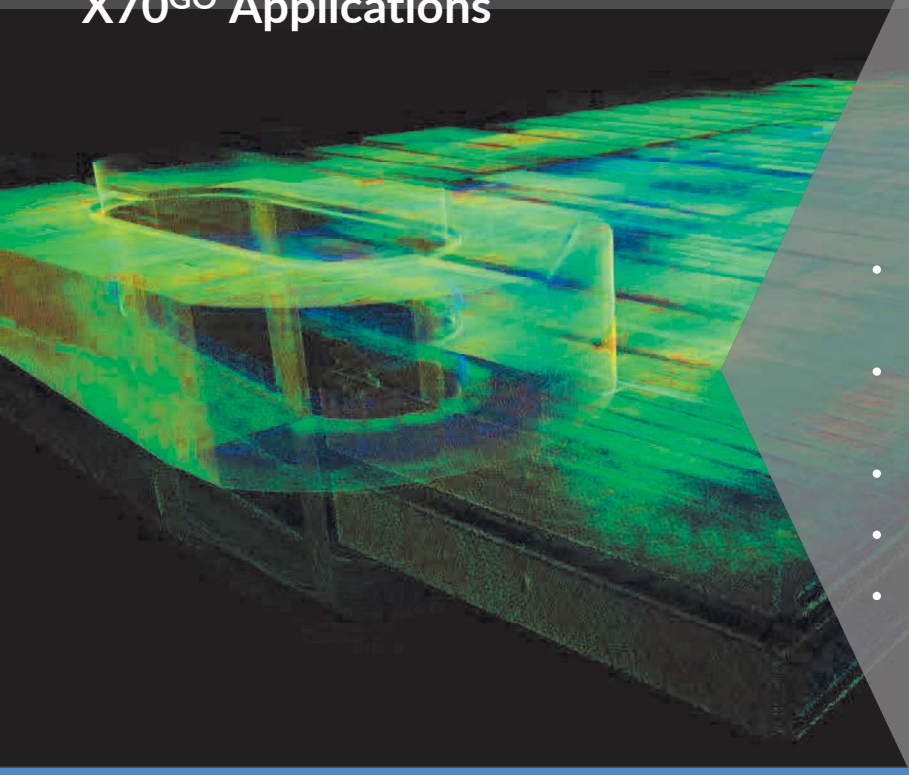
X70^{GO} Applications



HERITAGE & ARCHITECTURE

- Complete survey of all the interested building in a while
- High resolution capturing of details thanks to X-Whizz mode
- Digital twin representation for cultural heritage conservation
- Detailed floorplan extraction, including room dimensions, wall thickness and architectural elements

X70GO Applications



BIM & FACILITIES

- Fast detection of large areas and extensive structures
- Detailed view of existing structures, pipes and equipments
- Update existing models during renovations
- Adding information directly to models
- Centralising and digitising information

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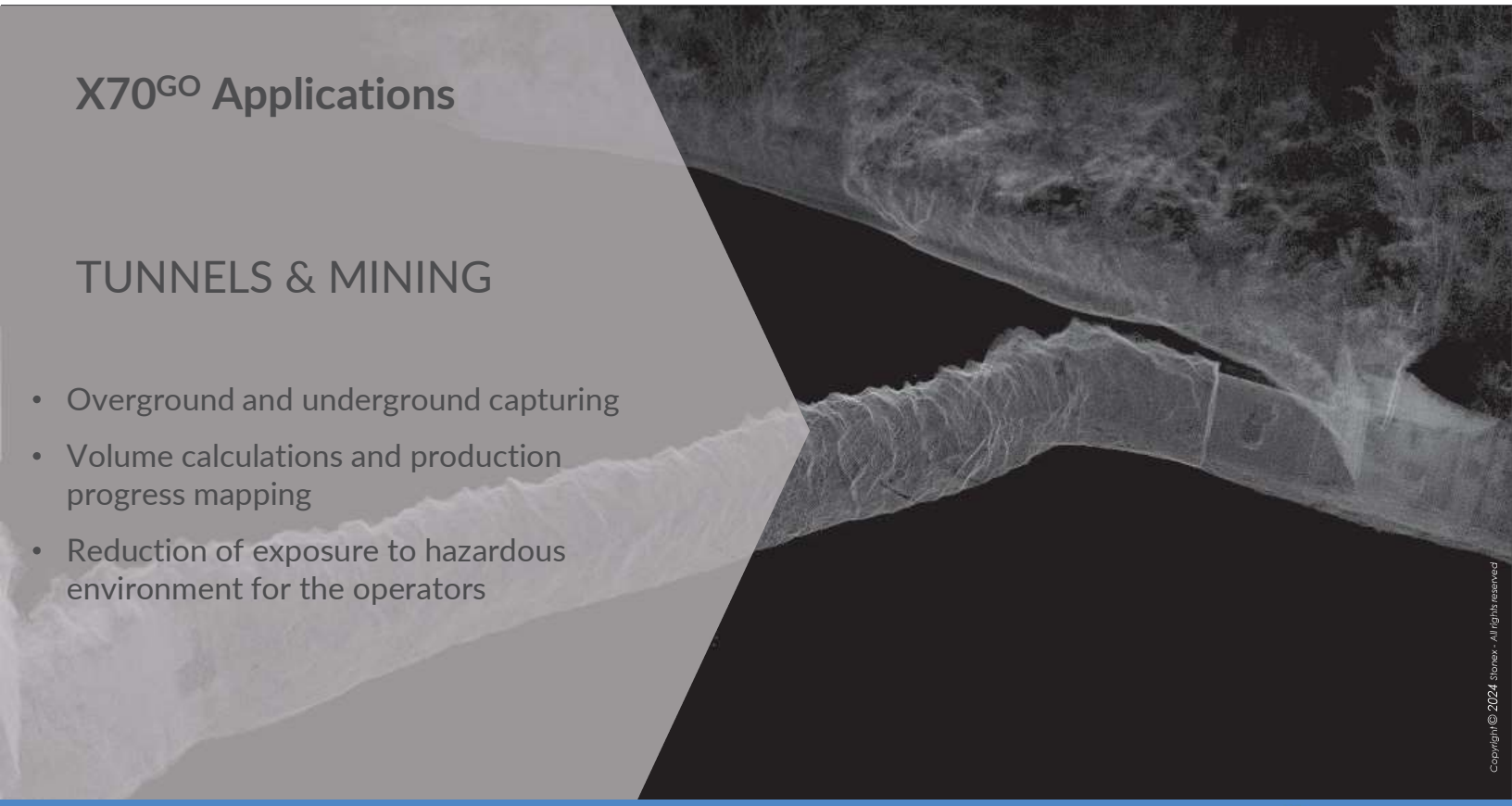
X70^{GO} Applications



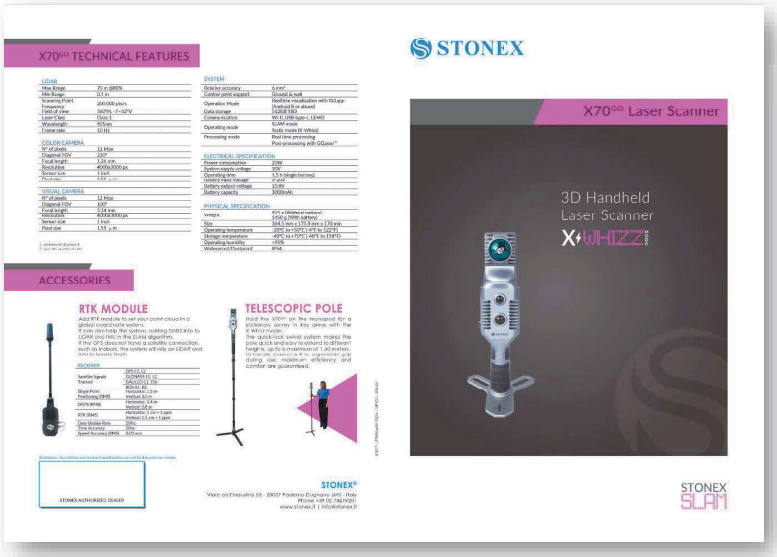
TUNNELS & MINING

- Overground and underground capturing
- Volume calculations and production progress mapping
- Reduction of exposure to hazardous environment for the operators

Marketing

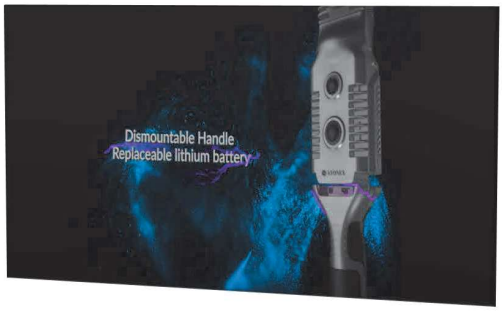
X70^{GO} - Pictures

X70^{GO} - Brochure



X70GO - Video

X70GO Video



Configuration

X70^{GO} – Configuration

	Product code	Description	Q.ty
	X70GO SLAM Handheld laser scanner		1
1	30-350738	X70GO shipping case	1
2	30-350736	X70GO battery handle	1
3	30-350737	X70GO GCP base	1
4	30-350740	X70GO charger	1
5	30-350741	X70GO power cable	1
6	30-350657	GOpost software dongle key	1

X70^{GO} – Bundle Configuration

cube·3d

Product code	Description
B60-200443	X70GO + Cube3D SCANNER

PointCab

Product code	Description
B60-200440	X70GO + PointCab Origins
B60-200441	X70GO + PointCab Origins 3D
B60-200442	X70GO + PointCab Origins PRO
B60-200444	X70GO + PointCab Origins PRO EDU

X70^{GO} – Accessories

Product code	Description
30-350743	X70GO Telescopic monopod with tripod stand
30-350671	X120GO/X70GO RTK Module

Product code	Description
40-WE2011	X120GO/X70GO Warranty Extension 2° Year
40-WE3029	X120GO/X70GO Warranty Extension 2° and 3° Years