

Large scale

scan-on-the-go

mobile mapping  
solution



**dConstruct**  
ROBOTICS



**d.ASHPack1.2**





# d.ASHPack1.2

dASH Pack is an end-to-end 3D mapping solution developed by Construct using state-of-the-art SLAM technologies.

It is fully man-portable or can be mounted on a robot. It operates with motion stabiliser on-the go both indoor and outdoor. dASH Pack can handle large areas with its long battery capacity.

3D colour point cloud collected are useful for digital twin and the data can be easily organised for robots to navigate autonomously anytime, anywhere.

## d.ASH Pack Support Application



Now you can now easily connect your d.ASH Pack to Xplorer with stream 3D coordinate data directly. This allows for real-time optimizations of the scanning trajectory, minimizing the need for re-scanning.

### Features

- IMU
- Ouster Lidar
- Computing System
- 4 Cameras
- 5 Hour battery
- Lifespan

### Control Unit

**1 TB SSD Hard disk with USB 3 interface, IMU, Ethernet and wireless connection available.**

Service support available through remote connection.



### Smart Construction

Periodically capture data efficiently to document changing construction sites and achieve frequent milestones. Monitor construction easily to meet timelines and deliver an as-built 3D point cloud and image dataset after the building construction is completed.



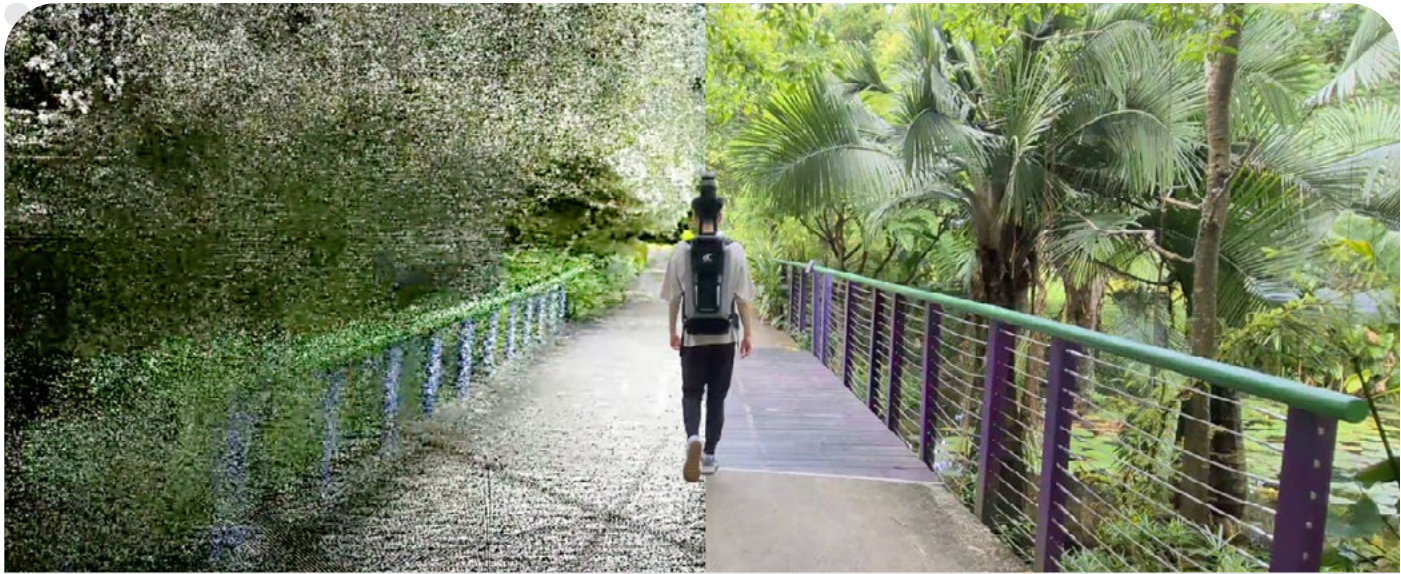
### Safety & Security

Scanned data can be used to detect potential threat to prevent accident. By monitor and manage potential safety risks and prevent overcrowding or congestion. Emergency planning and response can help improve safety, security and efficiency in wide range of industries and scenarios.



### Academia & Research

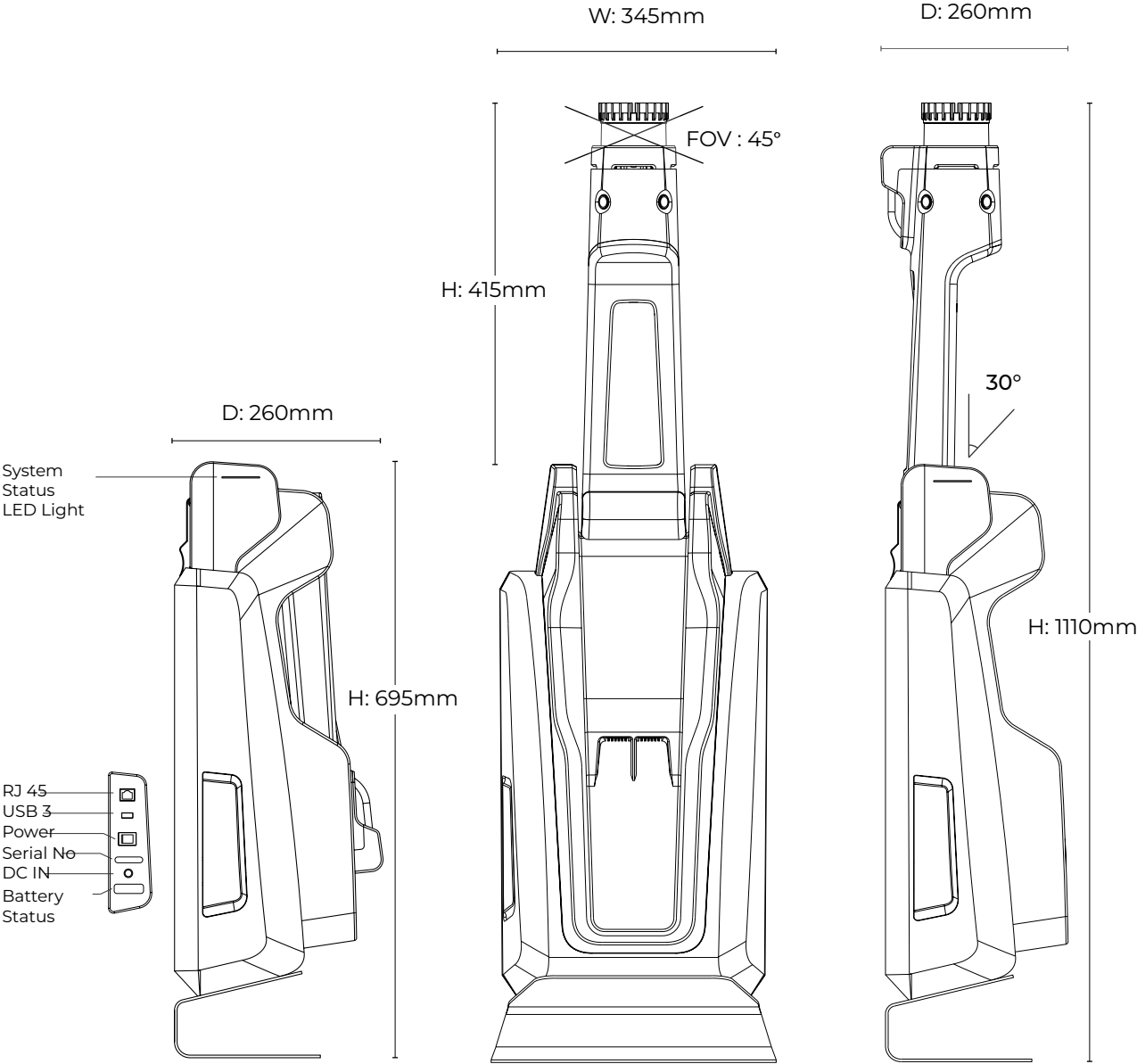
Generated data not only providing accurate digital representations of the physical environment but also can be used to monitor and analyze changes. It can also facilitate training and testing of artificial intelligence, enabling advanced computer vision techniques that can be integrated into various needs.



## Core Specifications

SLAM / DATA Scanner	
Laser Scanner Model	Ouster REV7 OS1
FOV Horizontal / Vertical	360° / 45° (+22.5° to -22.5°)
Channel	32
Points Per Second	655,360
Laser Range	Up to 120m
Range Accuracy	±3 cm for lambertian targets, ±10 cm for retroreflectors
Point Cloud	Binary LAS 1.2. ,E57, PCD, XYZ file format, XYZ RGB values Colourisation by camera pictures, Mesh export in PLY, GLTF
Camera Sensors	
Number of Camera	4
Positioning Solution	SLAM
Stream	1280x720 @ 10fps
Control Unit	1 TB SSD Hard disk with USB 3 interface, IMU, Ethernet and wireless connection available. Service support available through remote connection.
Battery	
Battery Lifespan	5 Hour
Charging Time	3 Hour
Input Voltage	29.4V
Battery Capacity	6.4Ah@ 25.9V(165WH)
Sensor Platform	
Body Material	Nylon, Metal, leather, Wood, Foam
Strap Material	Nylon, Foam
Weight	11.5kg

# Product Dimensions





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