

Large scale  
scan-on-the-go  
mobile mapping  
solution



## d.ASHPack1.2



# d.ASH Pack1.2

d.ASH Pack is an end-to-end 3D mapping solution developed by dConstruct 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. d.ASH 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.

## Key Components

- IMU
- Ouster Lidar
- Computing System
- 4 Cameras
- Efficient battery

## d.ASH Go | 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.

## Control Unit

**1TB 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 site 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

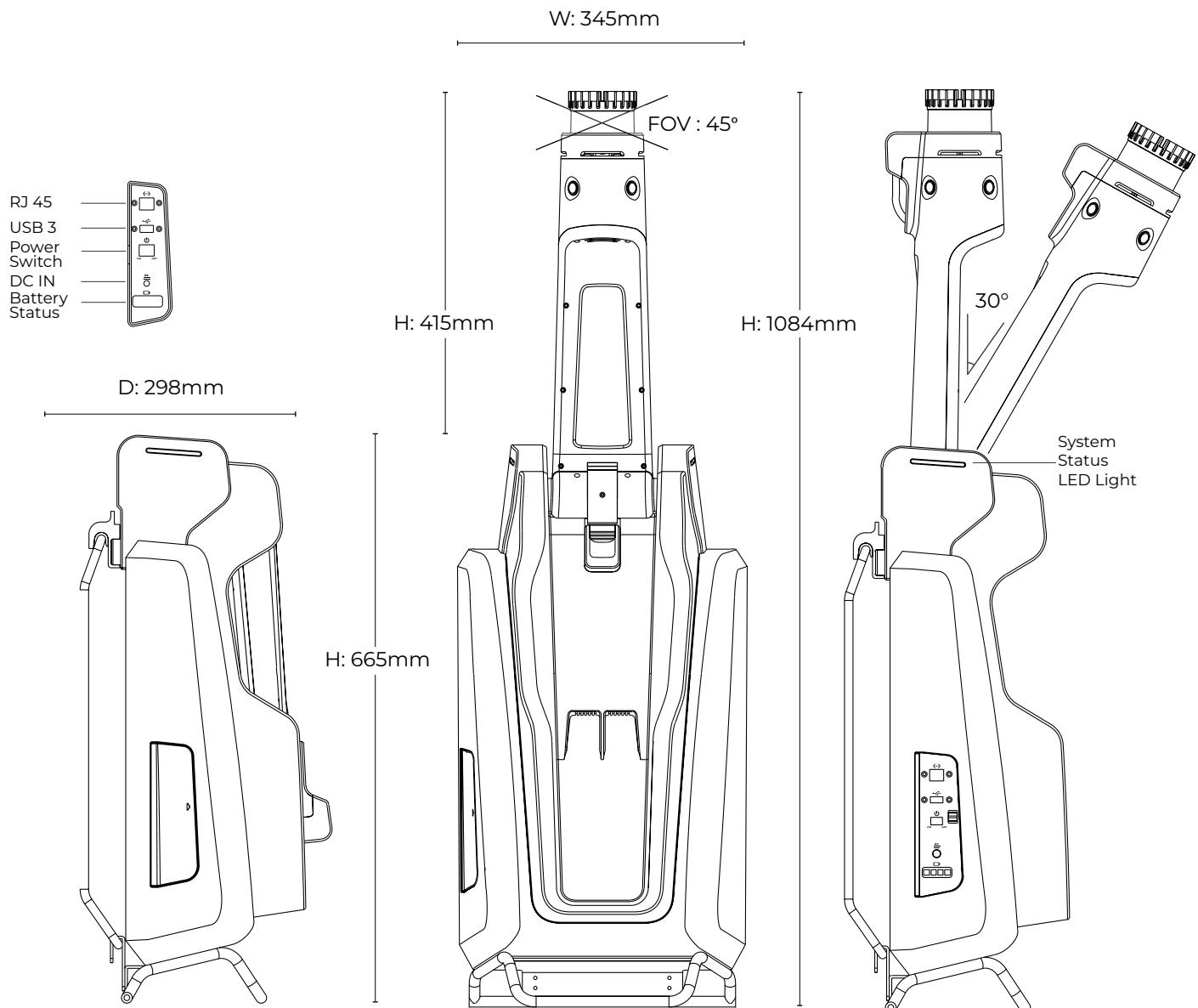
Generated data not only providing accurate digital representations of the physical environment but also can be used to monitor and analyze changes. It can also facilitate training and testing of artificial intelligence, enabling advanced computer vision techniques that can be integrated into various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



## Core Specifications

<b>SLAM / DATA Scanner</b>	
Laser Scanner Model	Ouster OS1 REV6 Channel 64
FOV Horizontal / Vertical	360° / 45° (+22.5° to -22.5°)
<b>Points Per Second</b>	655,360
<b>Laser Range</b>	Up to 120m
<b>Range Accuracy</b>	±3 cm for lambertian targets, ±10 cm for retroreflectors
<b>Point Cloud</b>	Binary LAS 1.2, .E57, PCD, XYZ file format, XYZ RGB values Colourisation by camera pictures, Mesh export in PLY, GLTF
<b>Camera Sensors</b>	
Number of Camera	4
Positioning Solution	SLAM
Stream	1280x720 @ 10fps
<b>Control Unit</b>	1 TB SSD Hard disk with USB 3 interface, IMU, Ethernet and wireless connection available. Service support available through remote connection.
<b>Battery</b>	
Battery Lifespan	3 Hour
Charging Time	3 Hour
Input Voltage	29.4V
Battery Capacity	6.4Ah@ 25.9V(165WH)
<b>Sensor Platform</b>	
Body Material	Nylon, Metal, leather, Wood, Foam
Strap Material	Nylon, Foam
<b>Weight</b>	11.5kg

# Product Dimensions





dConstruct Robotics  
10 Central Exchange Green #03-01,02  
PIXEL Singapore 138649



For more information, please contact +65 8787 7480 | [hello@dconstruct.co](mailto:hello@dconstruct.co) | [dconstruct.co](http://dconstruct.co)