Datasheet
SDX-4DVision



SDX-4DVision is an excavator-mounted 3D documentation system for precise as-built capture of terrain, utilities, and completed work. By integrating with an existing machine control system (Trimble Earthworks), it generates centimeter-accurate, high-resolution point clouds, optionally colorized. Typical applications include utility and pipeline construction projects, as well as earthworks.

Technical Details

General	
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storing Temperature	-20°C to 60°C (-4°F to 140°F)
Ingress Protection	IP67
Tablet with Trimble-Earthworks-License	needed
Trimble Earthworks High Data Rate (HDR) License	needed
Standard Color	light grey
Scanning Range	20 m (65 ft)
Accuracy	
Absolute Horizontal Accuracy - Continuous Scan	<5 cm (1.9 in) RMS (1)
Absolute Vertical Accuracy - Continuous Scan	<10 cm (3.9 in) RMS (1)
Absolute Horizontal Accuracy - High Resolution Scan	<2 cm (0.7 in) RMS (1)
Absolute Vertical Accuracy - High Resolution Scan	<3 cm (1.1 in) RMS (1)
Relative Accuracy	1.5 cm (0.6 in) (1)
Connectivity	
4G Modem (LTE/UMTS) Quectel EM05 Series	yes
Wi-Fi 5 802.11ac 2x2 dual-band EmWicon WMX6218	yes
Electrical	
Input Voltage	9-36 V
Power Consumption	<90 W (@24 V)

(1) under Sodex testing conditions

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