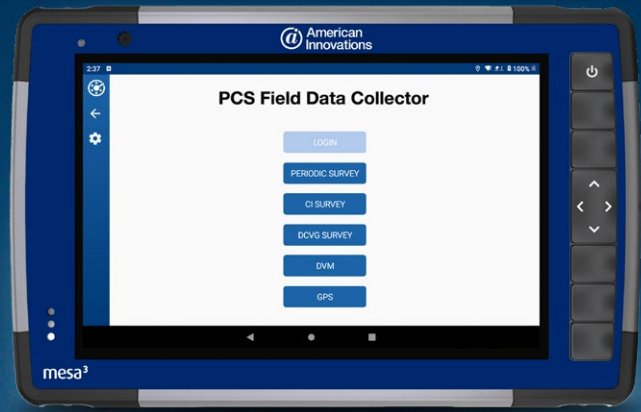


Mesa Rugged Tablet for Android



Increase operational efficiency with the Mesa Rugged Tablet for field data collection.

Android OS and the eight-core processor deliver lightning-fast performance. Power through a full day of annual, periodic, DCVG, and close interval survey data collection with the durable and reliable Mesa Rugged Tablet for Android.

ULTRA-RUGGED

Meeting IP68 and MIL-STD-810G ratings, the Mesa Rugged Tablet for Android is designed to work in the most extreme conditions. Rain, extreme temperatures, or dust will not get in the way of your productivity.

DVM FOR THE CATHODIC PROTECTION INDUSTRY

The Bluetooth Digital Voltmeter, DVM2130, is built upon our patented technology to ensure highly accurate measurements in less than optimal environments.



YOUR OFFICE IN THE FIELD

The seven-inch display, high resolution camera, 14-hour battery life, and cellular capabilities enable you to be more productive in the field all day.

PCS FIELD DATA COLLECTOR APP

The PCS Field Data Collector software works with your Mesa Rugged Tablet to streamline your survey workflow. Perform annual, periodic, DCVG, and close interval surveys, and validate inspection data in real time. Visual features, including maps, help you quickly see the area already surveyed and where you need to survey next. Available for Windows, iOS, and Android devices.



MESA RUGGED TABLET FOR ANDROID SPECIFICATIONS

PROCESSOR

Qualcomm® Snapdragon™ Octa-core Kryo™ 260

OPERATING SYSTEM AND SOFTWARE

Android 11 (GMS)

MEMORY AND STORAGE

6 GB LPDDR4x Storage

64 GB eMMC Flash Storage,
Micro SDXC card slot

WIRELESS CONNECTIVITY

Long-range Bluetooth® Smart Ready wireless technology, v5.0 + EDR, Class 1.5, BLE support

Wi-Fi 802.11 a/b/g/n/ac, 2.4 GHZ and 5 GHz

4G LTE multi-carrier capable

Micro SIM

GRAPHICS

Qualcomm® Adreno™ 512 GPU

DISPLAY

Active viewing area: 7"
(178 mm)

Resolution: WXGA (1280 x 800)

High-visibility backlit LCD for best-in-class sunlight view-ability

Portrait or landscape orientation with automatic screen rotation

CAMERA

Front: 2 MP

Rear: 16 MP with LED illumination

BATTERY

Removable Li-Ion battery, 43.2 Wh

Operates 8-10 hours on one charge

Removable battery, easily changeable in field

Optimized for strong performance in cold temperatures

Excellent lifecycle performance

Optional internal 21.6 Wh battery provides hot-swap capability and an additional 4-5 hours runtime

GPS/GNSS

Qualcomm SDR660 GNSS receiver and integrated antenna

Integrated real-time SBAS receiver (WAAS, EGNOS, etc.)

Supports GPS, GLONASS, & Galileo worldwide; BeiDou & QZSS outside the U.S.

PORTS

12V DC power input jack

USB-C, USB3.1OTG no battery charging x 1

Optional RS-232 9-Pin D-Sub connector with 5V DC or 12V DC power output

Dock connector (Power, USB 2.0, & HDMI)

TOUCHSCREEN

Projected capacitive multi-touch interface for use with gloves, small tip stylus, and in wet conditions

Optically bonded for increased visibility and strength

Chemically-strengthened Dragontrail™ High Ion-Exchange (HIE™) glass for excellent impact and scratch resistance

ENVIRONMENTAL

IP68 waterproof & dustproof

Operating temperature: -4° F to 122° F (-20° C to 50° C)

Storage temperature: -22° F to 158° F (-30° C to 70° C)

Shockproof: multiple drops from 4' (1.2-1.5 m) onto concrete

Designed to meet MIL-STD-810G test procedures: Method 500.5 Low Pressure (Altitude); Method 501.5 High Temperature; Method 502.5 Low Temperature; Method 503.5 Temperature Shock; Method 506.5 Rain; Method 507.5 Humidity; Method 510.5 Sand and Dust; Method 512.5 Immersion; Method 514.6 Vibration; Method 516.6 Shock

PHYSICAL

Size: 5.40" w x 8.48" l x 1.36" d (137 x 125 x 35 mm)

Weight: 1.5-2 lbs (680-907 g) depending on battery and expansion configuration

Durable, chemical- and shock-resistant design

Easy-to-grip, impact-absorbing, overmolded bumpers

Lightweight and ergonomic design

STANDARD ACCESSORIES

Standard removable battery

Hand Strap

AC wall charger with international plug kit

Connector port dust cover

Capacitive small-tip stylus w/ tether

Quick Start Guide



LEARN MORE: aiworldwide.com/mesa-rugged-tablet
aiworldwide.com • 800-229-3404 • info@aiworldwide.com
12211 Technology Blvd. Austin, TX 78727

MESA RUGGED TABLET FOR ANDROID SPECIFICATIONS

CERTIFICATIONS AND STANDARDS

HERO Certified

FCC Class B

CE Marking (applicable EMC, R&TTE, and LVD directives)

Industry Canada

EN62368 Safety

RoHS 2 Compliant

SUPPORTED CELL CARRIERS

US: T-Mobile, AT&T

Canada: Telus, Rogers, Bell Mobility, Sasktel (in Saskatchewan)

Australia: Telstra

DVM SPECIFICATIONS

WORKING VOLTAGE (DC)

250 V max. on primary input | 500 mV max. on shunt input*

WORKING VOLTAGE (AC)

175 V max. on primary input | 350 mV max. on shunt input*

INPUT IMPEDANCE

100 MΩ on primary input | 100 kΩ on shunt input*

MEASUREMENT CATEGORY

CAT II 250V

GPS

Internal GNSS (GPS, GLONASS, Galileo, BeiDou)

CONNECTIVITY

USB-C, Bluetooth v5

BATTERY

Rechargeable Li-Ion via USB-C, 10-hour battery life

DVM2130 DIMENSIONS

2.94" x 4.44" x 1.50"

ACCURACY BY RANGE:

	Range	Accuracy**	Temp Coefficient
DC	500 mV	$\pm (0.1\% + 0.025 \text{ mV})^{\dagger}$	0.007% / °C
	5 V	$\pm (0.1\% + 0.001 \text{ V})^{\dagger}$	0.007% / °C
	250 V	$\pm (0.1\% + 0.001 \text{ V})^{\dagger}$	0.007% / °C
AC	350 mV	$\pm (0.1\% + 0.05 \text{ V})^{\dagger}$	N/A
	3.5 V	$\pm (1\% + 0.00105 \text{ V})^{\dagger\dagger}$	N/A
	175 V	$\pm (1\% + 0.0525 \text{ V})^{\dagger\dagger}$	N/A

ACCURACY EXAMPLES:

Signal	Accuracy
100 mV	$\pm 0.13 \text{ mV}$
850 mV	$\pm 1.9 \text{ mV}$
50 V	$\pm 0.1 \text{ V}$
100 mV	$\pm 1.1 \text{ mV}$
850 mV	$\pm 9.5 \text{ mV}$
50 V	$\pm 0.55 \text{ V}$

*This input has a range and impedance specially designed for measuring shunts more accurately.

**Accuracy shown is for operation in temperatures from 15°C to 35°C. Annual calibration is required to maintain DVM accuracy.

†DC voltage error increases by 0.1% in the presence of 35 to 100 volts of AC interference.

††AC voltage accuracy applies to input frequencies of 50 or 60 Hz.

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