

# 2019 LandMark Spatial Solutions Mapping Grade Handheld Matrix

11/14/2019

		 <b>F4 Devices Forge 912</b> 10% off while quantities last	 <b>Janam XM5</b>	 <b>Handhelds Nautix X8</b>	 <b>F4 Devices Forge 912 ECHO</b> 10% off while quantities last	 <b>Trimble Juno T41 XGR</b> 31% off while quantities last	 <b>Juniper Systems Archer 2 Geo</b>	 <b>Juniper Systems Mesa 2 Geo</b>
<b>Pros:</b>	Good Numeric Keypad, Good GPS	Resistive Screen, Good Keyboard with Directional Arrows	Big screen, fast processor, tons of RAM, Numeric Keypad, Best Warranty	Good Numeric Keypad, Good GPS, Echo Location for borderline tree measurement	<b>Most Accurate GPS</b> , Big Screen, Fast Processor, Gorilla Glass Screen, Most Memory, Very Rugged	Numeric Keypad, Big Screen, Brightest Screen, GPS + Glonass, 20 hr battery, Fast Processor, Very Rugged	Windows 10, 7" bright screen, GPS + Glonass, Fastest Porcessor, Most Memory	
<b>Cons:</b>	Slower operation, Locks up	1 GB Storage but can add MicroSD card	Screen is sensitive to excess rain or sweat, but Rain Mode helps.	Slower operation, Locks Up	No numeric or directional keys. Little heavier with 1D/2D barcode scanner.	none	none	
<b>Price:</b>	<del>\$1299</del> \$1169	\$1,399	\$1,399	<del>\$1699</del> \$1529	<del>\$2699</del> \$1799	\$1,995	\$1,995	
<b>Processor:</b>	800 MHz	1 GHz ARM Cortex-A8 processor	1.5GHz, dual core	800 MHz	1 GHz, Texas Instruments DM3730	1.0GHz ARM Cortex A8 i.MX53 processor	Quad-core Intel® Atom™ Z3745 processor	
<b>Internal Memory</b>	8 GB Non-volatile Flash	1 GB Storage but can add MicroSD card	4 GB Non-volatile flash	8 GB Non-volatile Flash	32 GB Non-volatile flash	8 GB Non-volatile flash	64/128 GB Non-volatile flash	
<b>RAM</b>	512MB	512	1 GB	512MB	512MB	512MB	4 GB	
<b>Display Size/Type</b>	3.5" Color LCD Transmissive, 480x640 Full VGA , resistive touch	3.5" Color LCD Transmissive, 480x640 Full VGA , resistive touch	4.7" FWVGA capacitive touch display, chemically strengthened glass	3.5" Color LCD Transmissive, 480x640 Full VGA , , resistive touch	4.3" WVGA sunlight-readable Corning® Gorilla® Glass display, capacitive touch	4.3" WVGA LCD TFT (800x480) High visibility backlit LCD, Scratch-resistant , capacitive touch	7" WXGA LCD (1280 x 800) High visibility backlit LCD, Scratch-resistant , capacitive touch	
<b>Camera:</b>	5MP Auto focus	5MP Auto focus	8 megapixel camera with autofocus and LED flash	5MP Auto focus	8 MP camera with geo-tagging and dual LED flash	5MP autofocus	8MP rear, 2 MP front, geotagging, autofocus	
<b>IP Rating:</b>	IP 67	IP 65	IP 67	IP67 with Plug, 65 without	IP 68	IP 68	IP 68	
<b>Standard Warranty:</b>	6 Month	2 Years	1 Year	6 Month	2 years	2 years	2 years	
<b>Extended Warranty:</b>			\$329 for 3 years - Includes Accidents		\$487 for 2 years	\$390 for 2 years	\$390 for 2 years	
<b>Battery</b>	Li-Ion 11.1v, 3800mAH	4000 mAh	Li-Ion 11.1 V, 2500 mAh	Li-Ion 11.1v, 3800mAH	Li-Ion 11.1 V, 2500 mAh	Li-Ion 3.7VDC 10600mAh	Li-Ion 43.2 WHr	
<b>AC charge time:</b>	4 hours	4 hours	4 hours	4 hours	4 hours	2-4 hours	2-4 hours	
<b>Battery life:</b>	9-11 hours	12+ hours	12 hours	9-11 hours	8-10 hours	up to 20 hours	8-10 or 15-16 hours	
<b>GPS Receiver Type</b>	UBLOX 52 channel L1, C/A Code	UBLOX with Assisted GPS	UBLOX	UBLOX 52 channel L1, C/A Code	UBLOX L1, C/A Code, with Additional Ground Plane Antenna	NVS Tech NVS08C 32 channel High-sensitivity GPS/GLONASS receiver - L1, C/A code	Ublox Neo M8 72 channel High-sensitivity GPS/GLONASS receiver - L1, C/A code	
<b>SBAS:</b>	WAAS, EGNOS, MSAS, GAGAN	WAAS, EGNOS	WAAS, EGNOS	WAAS, EGNOS, MSAS, GAGAN	WAAS, EGNOS	WAAS, EGNOS	WAAS, EGNOS, Beidou, Galileo	
<b>Accuracy (Autonomous)</b>	1-3 meters	1-3 meters	1-3 meters	1-3 meters	1-3 meters	2-4 meters	2-4 meters	
<b>Accuracy with SBAS (Open Sky):</b>	1-3 meters	1-3 meters	1-3 meters	1-3 meters	1-2 meters	2-4 meters	2-4 meters	
<b>GPS Filtering</b>	Yes	Yes	Yes	Yes	N/A	Yes	Yes	
<b>Echo Location:</b>	No	No	No	Yes	No	No	No	
<b>Intergrated Scanner:</b>	No	No	No	No	RFID	No	No	
<b>G-Sensor Height Measurement:</b>	No	No	Yes	Yes	No	No	No	
<b>Measurements (in):</b>	7.9 in x 3.7 in x1.7 in	6.1 in x 2.9 in x 1.0 in	7.5 in x 3.1 in x 1.3 in	7.9 in x 3.7 in x1.7 in	8.26 in x 3.2 in x 1.26	7.25 in x 3.6 in x 1.5 in	8.48 in x 5.4 in x 1.36 in	
<b>Weight (oz):</b>	15.6 oz	10 oz	17.3 oz	15.6 oz	16.7 oz	19 oz	24-32 oz	
<b>Ports:</b>	MiniUSB, headphone jack, 9 pin Serial, charging	Micro USB, headphone	Micro USB, USB Host, 9 pin Serial, headphone	MiniUSB, headphone jack, 9 pin Serial, charging	3.75mm audio jack, MCX GPS antenna port, custom port that supports USB 2.0 Host, USB Client	Micro USB, USB Host, 9 pin Serial, headphone	USB 3.0 Host, headphone, 9 pin Serial option,	
<b>Additional memory</b>	MicroSD Card up to 32GB	MicroSD Card up to 32GB	MicroSD Card	MicroSD Card up to 32GB	MicroSD Card	MicroSD Card	MicroSD Card	
<b>802.11</b>	802.11 b/g 54 Mb/s	802.11a/b/g/n	802.11 b/g/n	802.11 b/g 54 Mb/s	802.11 b/g/n	802.11b/g/n with extended range	802.11b/g/n with extended range wifi and BT	
<b>Integrated Scannerr</b>	No	1D/2D	No	No	RFID	No	No	
<b>Bluetooth:</b>	Class II, v2.1 EDR	Bluetooth v2.1, Class 2 EDR	Class 2.1 with Enhanced Data Rate	Class II, v2.1 EDR	Class 2.1 with Enhanced Data Rate	Class 1.5, v 2.1 EDR	Class 1.5, v 2.1 EDR	
<b>Operating System:</b>	Windows Embedded Handheld 6.5	Windows Embedded Handheld 6.5 or Android	Windows Embedded Handheld 6.5 or Android	Windows Embedded Handheld 6.5	Windows Embedded Handheld 6.5 or Android	Windows Embedded Handheld 6.5.3	Windows 10 or Android 5.1	
<b>Operating Temp.:</b>	-4 to 140 °F	-13 to 158 °F	-22 °F to 140 °F	-4 to 140 °F	-22 °F to 144 °F	-22 F to 144 F	-4 F to 122 F	