

FP88 Survey Handheld Controller

4G Intelligent Terminal for GNSS Data Collection



▶ WHY CHOOSE THE ALLYNAV FP88 SURVEY HANDHELD CONTROLLER?

FP88 is a 4G smart handheld controller running Android 11, designed for surveying and RTK field operations. With high-end industry specifications, the FP88 combines a slim yet rugged design with IP68 dust and water protection. Its high-brightness display and powerful speaker deliver reliable, efficient performance even in the most challenging field environments.

▶ ADVANTAGES



Peak Performance in Every Scenario

Running Android 11, the FP88 makes field surveying more efficient and flexible. Dual-SIM dual-standby with eSIM support and global 2G/3G/4G coverage ensures stable communication across regions, while 4GB RAM and 64GB storage enable smooth multitasking and ample data capacity.



Professional Hardware for Precise Control

The 5.45-inch, 650-nit sunlight-readable display keeps critical measurements clear even under direct sunlight, reducing the risk of input errors. The 13MP autofocus camera captures site features, control points, and on-site details for precise surveying records and project documentation, while the high-power speaker ensures alerts remain audible even in noisy environments.



All-Day Power, Rugged and Reliable

A 9000mAh high-capacity Li-ion battery supports long hours of continuous outdoor work, minimizing charging interruptions. Type-C fast charging at 18W allows quick top-ups to maintain productivity. With IP68 dust and water protection and professional-grade shock resistance, FP88 performs reliably in rain, drops, and extreme temperatures.



Full Keypad for Nonstop Input

The full physical keypad with separate numeric and alphabet zones enables fast, accurate input with fewer errors. Even in cold weather or while wearing gloves, data entry stays quick and reliable—keeping field workflows uninterrupted.

APPLICATIONS



FORESTRY MANAGEMENT



CADASTRAL SURVEYING



ROAD CONSTRUCTION SURVEYING



PIPELINE INSPECTION

SPECIFICATION

System	Power Specifications
<p>Operating System: Android 11</p> <p>Main Processor: MT6762/6765, 8-core, 2.0 GHz</p> <p>64GB ROM, 4GB RAM</p>	<p>Battery: 9000 mAh</p> <p>Fast Charging: 9V/2A (18 W)</p> <p>Charging Interface: Type-C</p>
Physical Specifications	Communications
<p>Display: 5.45 inches, 720 × 1440 px, 650 nits</p> <p>Dimensions: 221 × 78 × 16.5 mm</p> <p>Touchscreen: Capacitive, 5-point multi-touch</p> <p>Screen Material: HD hard display, TP high-alumina white glass</p> <p>Ingress Protection: IP68, professional-grade shock resistance</p> <p>Operating Temperature: +55°C to -20°C</p> <p>Storage Temperature: +70°C to -40°C</p> <p>Physical Keypad: 51-key full keyboard + 1 side programmable key (*optional 9-key numeric pad)</p> <p>Wrist Strap: Supported</p>	<p>SIM Card: Dual Nano SIM</p> <p>Network Modes: GSM, WCDMA, TD-SCDMA, TDD/FDD-LTE</p> <p>Data Services: LTE CAT4, HSPA, TD-SCDMA, EDGE, GPRS</p> <p>Supported Bands:</p> <p>GSM: B2/B3/B5/B8</p> <p>WCDMA: B1/B2/B5/B8</p> <p>FDD-LTE: B1/B3/B5/B7/B8/B20/B28/B2/B4/B12/B17</p> <p>TDD-LTE: B34/B38/B39/B40/B41 (100 MHz)</p> <p>Theoretical Speeds:</p> <p>LTE CAT4: 150 Mbps Downlink/50 Mbps Uplink</p> <p>WCDMA: HSDPA Cat 24/HSUPA Cat 7</p> <p>TD-SCDMA: Cat 14 Downlink/Cat 6 Uplink</p> <p>GSM: Class 12 GPRS/EDGE</p> <p>WLAN: Dual-band 2.4 GHz/5 GHz Wi-Fi (IEEE 802.11 a/b/g/n/ac)</p> <p>Bluetooth: BT 5.0</p>
Sensors and Multimedia	
<p>Sensors: Accelerometer, Gyroscope, Proximity, Ambient Light, Electronic Compass</p> <p>Flashlight: Professional-grade high-brightness LED</p> <p>NFC: 13.56 MHz (supports ID card recognition)</p> <p>Speaker: 8 Ω, 2 W</p>	<p>Microphone: Supported</p> <p>Rear Camera: 13MP autofocus</p> <p>Flash: 4 × 4 high-brightness LED</p> <p>Video Recording: Up to 1920 × 1080 pixels @ 30 fps</p> <p>Headset (Optional): Type-C interface</p>



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