



## SAT - FINDER

PALS Sat-Finder is an advanced tool designed to accurately calculate satellite pointing angles from any location. Ideal for field technicians and operators, it ensures precise satellite alignment, saving time and reducing the need for repeated adjustments. This device is essential for a variety of applications, including satellite TV installations, communication system setups, and any scenario requiring rapid and reliable satellite tracking. Lightweight and portable, the Sat Finder is an indispensable device for ensuring strong signal quality and optimal satellite positioning in both commercial and residential installations.

With the ability to confidently identify satellites using beacon signals and DVB-S signatures, the Sat Finder offers real-time feedback on antenna heading and elevation angles, providing clear, active indicators to guide precise alignment. Its user-friendly graphical interface requires no specialized training, making operation simple and intuitive. The device's versatile display can be accessed via any web browser, offering convenient control. Highly portable, the Sat Finder can be easily transferred between antennas, making it an ideal solution for maintaining and servicing a fleet of portable terminals.

## Key Features

- Integrated of 3 axes gyroscope, 3 axes inclinometer, 3 axes accelerometer sensors for antenna data
- Integrated GPS module to provide accurate antenna location data
- Confident Satellite Identification Using Beacon Signals and DVB-S Signatures
- Integrated light sensor senses
- Integrated temperature and humidity sensor
- Supports Wi-Fi 802.11b/g/n wireless connection control
- Supports access to external AGC signals or locking signals, guide users to lock the datellite quickly and accurately
- Built-in rechargeable polymer lithium battery
- Supports TCP/IP wireline access control



#### PHYSICAL & ELECTRICAL SPECIFICATIONS

Dimension	149mm*84mm*27mm		
Weight	0.5 Kg		
Operation Temperature	-20°C ~ +70°C	Storage Temperature	-30°C ~ +80°C
Grade of Protection	IP67		
Build in Battery	3.7VDC @ 5000mAh, 84*54*8.5mm		

#### DISPLAY WITH TOUCH PAD

Display Type	5.0", TFT-LCD, Touch Screen, 65K/262K/16.7M COLORS
Display Mode	IPS Normally Back
Touch Type	Capacitive touch

#### GYROSCOPE

Full-Scale Range	±250 dps, ±500 dps, ±1000 dps, ±2000 dps
ADC	16-bit
Sensitivity Scale Factor	131 LSB/(dps), 65.5 LSB/(dps), 32.8 LSB/(dps), 16.4 LSB/(dps)
Output Data Rate	9Kmax, user selectable
Nonlinearity	±0.1%, Best fit straight line@25
Cross-Axis Sensitivity	±2%

#### ACCELEROMETER

Full-Scale Range	±2g, ±4g, ±8g, ±16g
ADC	16-bit
Sensitivity Scale Factor	16384LSB/g, 8192LSB/g, 4096LSB/g, 2048LSB/g
Output Data Rate	4.5Kmax, user selectable
Nonlinearity	±0.5%, Best fit straight line
Cross-Axis Sensitivity	±2%

#### GPS MODULE

GNSS Mode	GPS & GLONASS		
Level	TTL		
Baud Rate	9600bps(configurable)		
Output Rate	1Hz(configurable)		
Cold Start Time	<60 Seconds	Warm Start Time	<45 Seconds
Protocol	NMEA-0183(configurable)		

#### TEMPERATURE SENSOR

Resolution	14bit 0.01°C, 12bit 0.04°C
Accuracy tolerance	±0.3°C typ., ±1.5°C max
Repeatability	±0.1°C
Operating Range	-40~+125 °C
Response Time	5 ~ 30s
Long Term Drift	<0.02°C/year

#### HUMIDITY SENSOR

Resolution	12bit 0.04%RH, 8bit 0.7%RH
Accuracy tolerance	±2%RH typ., ±2%RH max
Repeatability	±0.1%RH
Operating Range	0~100%RH
Response Time	8S
Long Term Drift	<0.25%RH/year
Nonlinearity	<0.1%RH

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