



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 satellite 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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