



Super Buddy 29ä

Features and Specifications

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The Super Buddy 29™ is more than just another satellite identification and peaking meter. It has a range of features designed to assist in installation, trouble-shooting and testing of many different satellite systems. The Super Buddy 29 has all of the features of the standard Super Buddy satellite meter, plus an internal 21 volt module that allows it to power the new DIRECTV™ SWM LNBS and an internal 29 volt module that allows it to power the WildBlue™ TRIAs (will also power TRIAs / LNBS used by Xplornet / Telesat)

Mechanical

- Field Replaceable F - connectors (barrel connectors)
- Rugged durable aluminum case with rubber shock guards and weatherproof gaskets
- Current Limit Levels of 750 mA (13 & 18VDC output), 400 mA (at 21VDC output) and 325 mA (at 29VDC output)
- Quick charge battery with universal AC or vehicle 12 VDC
- USB Computer interface for upgrading via Internet
- Audible tone for signal lock and peak

Satellite Database

- Positive ID multi-lock algorithm eliminates false positives
- Field Guide holds ALL satellites and ALL their compatible transponders for your global region
- Software updates are available as free downloads from www.appliedin.com
- Manual tune screen allows entry of custom satellites using front panel keypad

Zip Code Lookup

Enter a U.S. Zip Code, Canadian Postal Code, or Latitude and Longitude coordinates to use the following features:

- Display azimuth, magnetic heading, elevation and polarization offset for any satellite
- Display skew or tilt for DIRECTV™ or Dish Network™ multi-sat dishes
- Access WildBlue™ beam definitions and display arm angle and APA settings

Measurements

- Tunes to individual transponders
- Calibrated Signal Level (dBm, dBmV or dBμV) with present and peak bar graph
- Signal Quality (displayed with familiar IRD value with present and peak bar graph or as C/N, Eb/No, or Es/No)
- Bit Error Rate (Post-FEC, Reed Solomon)
- Voltage supplied by IRD
- Current drawn by LNB
- LNB frequency deviation (kHz) to check for LNB drift
- Spectrum Display (frequency on x-axis, amplitude on y-axis)
- Constellation Display (I and Q values)

Switch Control

- DiSEqC (both committed and uncommitted)
- 22 kHz
- DIRECTV™ B-Band converter
- Dish Legacy and DishPro
- Zinwell 6x8 and more...

Advanced Testing

- Proof of Performance Test: scan all transponders, save readings and then upload to your PC
- DiSEqC command monitor – monitors DiSEqC command codes from IRD or other device
- Noise Scan – test the frequency response of a cable network (similar to a sweep test)
- Limit Scan – quick test of up to 5 transponders per satellite with pass/fail indication

Compatible Systems

In addition to the standard DSS, DVB-S, and Digicipher 2 systems, the Super Buddy is compatible with the following:

- Low Ku Band FSS Satellites (i.e., Globecast / Telstar 5 / IA5 / Galaxy 25 / Galaxy 19)
- Bell ExpressVu
- C-Band
- DIRECTV™ Slimline, MFH-1, MFH-2, SWM and SWM-ODU systems (signal level only for Ka band signals)
- Dish Network™ (including Eastern Arc and 118.7 and 129 satellites with locking on 8PSK HD signals)
- DTN
- HughesNet Ku (also displays cross-pol data from modem)
- StarBand
- Star Choice
- Tachyon
- VSAT systems
- Wild Blue™ - includes zip code look up of beam information; compatible with new downstream multi-rate technology (ACM – adaptive coding and modulation) being used by WildBlue
- Glorystar
- Home2US
- Sky Mexico
- Skyway USA
- Xplornet / Telesat - compatible with downstream multi-rate technology (ACM – adaptive coding and modulation)

Specifications

Frequency range	950 to 2150 MHz
Tuning resolution	Individual Transponders
Signal level range	-70 to -10 dBm (-21 to +39 dBmV) (+39 to +99 dBμV)
Level accuracy	+/- 2 dB typical, 3 dB max
Signal lock formats	DSS, DVB-S, Digicipher 2, 8PSK Turbo (CCM and ACM)
Impedance	75 Ohm
LNB power	13 VDC for V/R and 18 VDC for H/L (Current limited at 750 mA) 21 VDC for DIRECTV SWM LNBs (Current limited at 400 mA) 29 VDC for WildBlue / Telesat / Xplornet (Current limited at 325 mA)
Switch control	22 kHz, DiSEqC, DISH Legacy
Battery	Rechargeable NiMH 7.2V, 3.6 Ah
Run time/charge	2.5 hours for a single LNB (depends on LNB current draw)
Universal AC charger	100 to 240 VAC, 50/60 Hz, fast charge and then trickle
Vehicle Charger	12 VDC
Computer interface	USB
RF Connector	Double-F barrel field replaceable
Size (W x H x D)	6.8" x 6.4" x 3.2" (17.3cm) x (16.3cm) x (5.8cm)
Weight	2.9 lbs. (1.3 kg)
Operating temperature	0°F to 125°F (-17°C to 51°C)

Standard Accessories

- Shoulder strap
- Cordura protective flap
- AC Line Cord for charging battery (Universal 100 to 240 VAC Transformer is built into the meter)
- Automobile cigarette-lighter adapter battery charge cord
- PC Download cable (USB)
- Operation Manual
- Training video (DVD format)
- Power passing splitter (rated from 950 to 2150 MHz) for use when powering WildBlue™ TRIA

Optional Accessories

- NS-1 Broadband Noise Generator – for use with Super Buddy Noise Scan feature to check coax cable integrity