

Comparison of Applied Instruments Satellite ID Meters

The AI Turbo S2 does everything the Super Buddy 29™ does, and more!

- Much stronger, longer lasting, and easier to replace battery
- Faster signal locking, including DVB-S2 signals
- Faster start-up, downloads, and proof of performance scans

Which Applied meter is right for you? If your primary work is:

- DIRECTV, the AI Turbo S2 is the best choice
- Dish Network, Bell TV, Shaw Direct, the Super Buddy is a fine choice (although the AI Turbo S2 has a better battery)
- Commercial Ku, C band, VSAT, broadcasting, teleport, or headends, the AI Turbo S2 is the best choice



	SUPER BUDDY™	SUPER BUDDY 29™	AI TURBO S2
FEATURES			
Satellite ID verification	YES	YES	YES
Auto scan satellite ID	YES	YES	YES
Field Guide database of all regional transponders	YES	YES	YES
Manual tune to custom transponders	YES	YES	YES
Audible tone for signal lock or peak	YES	YES	YES
Azimuth/elevation/skew calculations	YES	YES	YES
U.S. zipcode lookup of lat/long	YES	YES	YES
Canadian postal code lookup of lat/long	YES	YES	YES
Zipcode lookup of 1st Gen WildBlue spot beams	YES	YES	YES
Dish Network limit scan thresholds	YES	YES	YES
Built-in time and date clock			YES
Tuning resolution	1 MHz	1MHz	4kHz
Frequency Range	950-2150 MHz	950-2150 MHz	950-2150 MHz, 250-750 MHz
BATTERY			
Type	NiMH	NiMH	Li Ion
Voltage (nominal)	7.2 V	7.2 V	11.1 V
Rating	3600 mAh	3600 mAh	4400 mAh
Capacity (Watt hours)	25.92 W-hr	25.92 W-hr	48.84 W-hr
Universal AC charger (100VAC to 240VAC)	YES	YES	YES
12VDC vehicle adapter	YES	YES	YES
Quick charge	YES	YES	YES
Easily replaceable			YES
Operates while charging	YES	YES	YES
Battery level & charge status monitoring	limited	limited	COMPREHENSIVE
PHYSICAL			
Field replaceable F connectors	YES	YES	YES
Rugged case with rubber shock guards	YES	YES	YES
USB computer interface for firmware updates	YES	YES	YES

LNB POWER

13V, 18V LNB power	YES	YES	YES
21V, 29V LNB power		YES	YES
DiSEqC and 22kHz switch control	YES	YES	YES

SIGNAL COMPATIBILITY

DVB-S – QPSK	YES	YES	YES
DSS / DIRECTV Legacy – QPSK	YES	YES	YES
Digicipher 2 – QPSK (Shaw Direct & many C-Band)	YES	YES	YES
Turbo – QPSK/8PSK (Dish Network HD, Shaw HD, Bell HD)	YES	YES	YES
DVB-S2 – QPSK/8PSK CCM (modern broadcast std.)			YES
DIRECTV 99 & 103 Ka Signal Level	YES	YES	YES
DIRECTV 99 & 103 Ka Quality Estimate (No lock)			YES

SWITCH CONTROL

22kHz	YES	YES	YES
DiSEqC	YES	YES	YES
Dish legacy and DishPro	YES	YES	YES
DIRECTV SWM Sat/Transponder selection			YES

MEASUREMENTS

Signal Level (dBm, dBmV, dBμV)	YES	YES	YES
Signal Quality (IRD, C/N, Eb/No, Es/No)	YES	YES	YES
IRD / IDU Voltage	YES	YES	YES
LNB Current Draw	YES	YES	YES
LNB LO Frequency Drift	YES	YES	YES
Post-FEC BER / Reed Solomon	YES	YES	YES
Pre-FEC BER / Viterbi (DVB-S, DSS, DC2)			YES
Framing errors (Turbo, DVB-S2)			YES
Symbol Rate Error			YES
DIRECTV B-Band without B-Band Converter			YES

TESTS

Proof of Performance	YES	YES	YES
Limit Scan for key transponders	YES	YES	YES
Constellation Screen (I and Q values)	YES	YES	YES
Spectrum Screen	YES	YES	YES
Spectrum with reference line			YES
Spectrum normalized to reference (w/cable loss)			YES
Noise Scan	YES	YES	YES
IRD DiSEqC command test	YES	YES	YES
Displays cross-pol value from Hughes Ku Band modems	YES	YES	YES
DIRECTV SWM system receiver utilization			YES
Multi-satellite alignment screen (DIRECTV SWM only for now)			YES

DATA STORAGE / UPLOAD / PRINTED REPORTS

Proof of Performance Scan	YES	YES	YES
Limit Scan	YES	YES	YES
Spectrum Scan			YES
Flash Memory Storage for saved Scans	64KB	64KB	256KB
Date stamps on saved Scans	YES	YES	YES
Time stamps on saved Scans			YES