

LNB POWER

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

SIGNAL COMPATIBILITY

DVB-S – QPSK (legacy video std)	YES	YES	YES
DSS / DIRECTV Legacy – QPSK	YES	YES	YES
Digicipher 2 – QPSK & OQPSK (Shaw Direct, some C-Band)	YES	YES	
Turbo – QPSK/8PSK (Dish Network HD, Shaw Direct HD, Bell TV HD, Gilat)	YES	YES	
DVB-S2 – QPSK/8PSK CCM (modern broadcast std.)		YES	YES
DVB-S2 – QPSK/8PSK/16APSK/32APSK CCM			YES
DVB-S2 – QPSK/8PSK/16APSK/32APSK ACM / VCM (VSAT - some Hughes, iDirect, etc.)			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
FSK (for DIRECTV SWiM 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	YES	YES	YES
Pre-FEC BER		YES	YES
Framing errors		YES	
PER			YES
Symbol Rate Error		YES	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	YES
Spectrum normalized to reference (w/cable loss)		YES	YES
Noise Scan	YES	YES	YES
IRD DiSEqC command reader	YES	YES	YES
Displays cross-pol value from Hughes Ku Band modems	YES	YES	YES
Multi-satellite 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	YES
Flash Memory Storage for saved Scans	64KB	256KB	256KB
Date stamps on saved Scans	YES	YES	YES
Time stamps on saved Scans		YES	YES