

TSLM-AI1 All In One Signal Level Meter



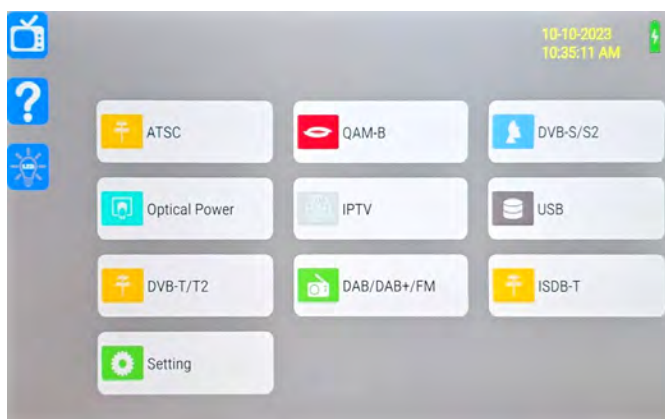
Features

- Receive and analyze 8VSB, ATSC 3.0, QAM, DVB-S, DVB-S2, DVB-t, DVB-T2, DVB-C, DVB-C2, ISDBT, DAB, DAB+, FM and Optical Power Level
- Transport Stream Demod
- Video Codec's MPEG1, MPEG2, MPEG4 (H.264) HEVC (H.265) 4k@60 FPS, AVS, VC-1, VP8, MVC
- Audio Codecs MPEG1-L2, MPEG-2, AC-3, AAC, MPEG-H
- I/P decode via RJ45 connector
- Video display on screen (un encrypted)
- Speaker for audio output
- 90-240VAC power supply / battery charger
- Li-ion 5000 mA 7.4 Vdc battery
- 12 OCD languages
- dBmV or dBuV user selectable measurement

The TSLM-AI1 Signal Level meter is a tablet style meter with the ability to measure and or analyze eight different types of signals. These include 8-VSB, ATSC 3.0, QAM, Optical Power, DVB-S & S2, DVB-T & T2 (COFDM) , ISDB-T, DAB/DAB+ and FM. It also is able to decode and display IPTV and network programming (streaming).

Built in a rugged aluminum chassis, the TSLM-AI1 features a 8.9 inch Touch Screen with a 2560 x 1600 pixel resolution from which all aspects of the meter are controlled.

Test results as well as data can be stored on a removable USB thumb drive.



Home Screen



TV Decode Image

TSLM-A11 All In One Signal Level Meter



8VSB / ATSC 3.0

- Signal Level
- MER, BER
- Channel Scan 5-1002 MHz
- Spectrum Analyzer
- Scope Display
- Will decode and play 8VSB programs but will not decode or display ATSC 3.0 content



QAM / DVB-C / C2

- Power, CBER, PER(DVBC/MCNS), LBER(DVBC2), MER and Symbol Rate display
- Spectrum analyzer
- Channel Auto Scan
- Tilt Display
- Channel search CH/Freq., All, FTA,
- Constellation
- DC/AC measurement

DVB-S / S2



- Angle calculation of azimuth and elevation for one sat and multibeam
- Azimuth and elevation measurement
- Satellite alignment system
- Power, MER, CBER, VBER(DVBS), LBER(DVBS2) Modulation mode display
- DiSEqC1.0, DiSEqC1.2, USALS, SCD and SCD2 supported
- Auto DiSEqC identification for DiSEqC1.0
- DiSEqC Command monitor
- Satellite NIT System
- Constellation
- Channel search TP, All, FTA
- Feed voltage and current monitor

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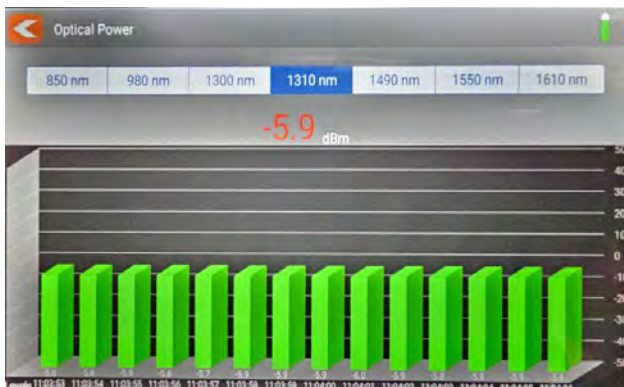
DVB-T / T2

- Power, VBER (DVBT), LBER (DVBT2) MER and CBBER display.
- Spectrum analyzer
- SCOPE Display
- Channel Auto Scan
- Channel search CH/Freq., All, FTA,
- Constellation
- Echos monitor
- Feed voltage and current monitor



ISDBT

- Power, CBBER, PER, MER display
- Spectrum analyzer
- Channel Auto Scan
- SCOPE Display
- Constellation



Optical Power

- Highly accurate optic power measurement.
- Optic wavelength 860 ~1610nm, selectable.
- Input Range: -50 dBm ~20 dBm

TSLM-A11 All In One Signal Level Meter

8VSB / ATSC 1.0	
Bit Error Rate (BER)	CBER (PreRSBER): 1E-7 – 1E-2 VWER (PostRSWER): 1E-6 – 1E-1
Frequency range	45-1000MHz
RF level	-25 - 60 dBmV
MER	5 - 40dB
Constellation	8VSB
Code rate	2/3
Bandwidth	6MHz

ATSC 3.0	
Bit Error Rate (BER)	CBER (PreLDPCBER): 1E-7 – 1E-2 LBER (PreBCHBER): 1E-9 – 1E-4
Frequency range	45-1000MHz
RF level	-25 - 60 dBmV
MER	5 - 35dB
Constellation	DQPSK, QPSK, 16QAM, 64QAM
FFT	8, 16, 32K
Bandwidth	6 MHz, 7 MHz, 8MHz

QAM / DVB-C / C2	
Bit Error Rate (BER)	CBER (PreRSBER): 1E-7 – 1E-2 PER (Packet Error Rate): 1E-6 – 1E-1
Frequency range	5-1000MHz
RF level	-25 - 60 dBmV
MER	20 - 40dB
Symbol Rate	5.6 Msym/s
Constellation	64QAM, 256QAM
Spectrum inversion	auto

DVB-S	
Bit Error Rate (BER)	CBER (PreViterbiBER): 1E-7 – 1E-2 VBER (PreRSBER): 1E-7 – 1E-2
Frequency range	950-2150MHz
RF level	-25 - 60 dBmV
MER	0 - 20dB
Symbole rate	1 Msym/s to 45 Msym/s
Constellation	QPSK
Viterbi rate	1/2, 2/3, 3/4, 5/6, 6/7, 7/8
Spectrum inversion	auto

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DVB-S2	
Bit Error Rate (BER)	CBER (PreLDPCBER): 1E-7 – 1E-2 LBER (PreBCHBER): 1E-9 – 1E-4
Frequency range	950-2150MHz
RF level	-25 - 60 dBmV
MER	0 - 20dB
Symbol rate	1Msym/s to 45 Msym/s
Constellation	QPSK, 8PSK
Viterbi rate	2/5, 1/2, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Spectrum inversion	auto

DVB-T (COFDM)	
Bit Error Rate (BER)	CBER (PreViterbiBER): 1E-7 – 1E-2 VBER (PreRSBER): 1E-7 – 1E-2
Frequency range	45-1000MHz
RF level	-30 - 60 dBmV
MER	5 -40dB
Bandwidth	6MHz, 7 MHz, 8 MHz
FFT type	2k, 8k
Constellation	QPSK, 16QAM, 64QAM
Viterbi rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	auto
Spectrum inversion	auto

DVB-T2 (COFDM-T2)	
Bit Error Rate (BER)	CBER (PreLDPCBER): 1E-7 – 1E-2 LBER (PreBCHBER): 1E-9 – 1E-4
Frequency range	45-1000MHz
RF level	-30 - 60 dBmV
MER	5 -40dB
Bandwidth	6MHz, 7 MHz, 8 MHz
FFT type	1k, 2k, 4k, 8k, 16k, 32k + extended bandwidth
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Viterbi rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 1/3, 2/5
Guard Interval	auto
Spectrum inversion	auto

TSLM-A11 All In One Signal Level Meter

ISDB-T	
Bit Error Rate (BER)	CBER(PreRSBER): 1E-7 – 1E-2 PER(Packet Error Rate): 1E-6 – 1E-1
Frequency range	45-1000MHz
RF level	-25 - 60 dBmV
MER	5 - 40dB
Bandwidth	6MHz, 7 MHz, 8 MHz
Constellation	QPSK, 16QAM, 64QAM
GI	1/32, 1/16, 1/8, 1/4

OPTICA POWER	
Wave Length	800~1700nm
Detector type	InGaAs
Measurement Range	-50 to +20dBm, +/-0.5dB

General

Display resolution(dB)	0.1dB
Remote supply	Satellite
Voltage	13/18V 400 mA max
DiSEqC	DiSEqC 1.2 control of dish motor switches committed & uncommitted
Mini DiSEqC (22kHz)	22 kHz, ToneBurst
SCD EN 50494	8 slots max switch committed
SCD2 EN 50607	32 slots max
Inputs / Outputs	
RF input	75 Ohms
Display	8.9 Inch, 2560 x 1600 pixels
Battery	Battery, Li-ion 5000 mAh @ 7.4VDC
Power input	12V @ 2A
Charging time	5 hours for 80% of capacity
Operating temperature	23°F to 113°F
Storage temperature	14°F to 140°F
Dimensions	6.8 x 10.0 x 1.45" (174 x 255 x 37mm)
Weight	2.5lbs (1.17kg)