

ST-5810 / ST-5610 **Universal TV Signal Level Meter**

February 3, 2022





SAT

- The Information in this presentation is confidential and proprietary to SATLINK and may not be disclosed without permission of SATLINK. SATLINK has no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation and SATLINK strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SATLINK at any time for any reason without notice. The information on this document is not a commitment, promise or legal obligation to deliver any material, code or functionality. This document is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for particular purpose, or noninfringement. This document is for information purposes and may not be incorporated into a contract. SATLINK assumes no responsibility for errors or omissions in this document, except if such damages were caused by SATLINK intentionally or grossly negligent.
- All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance or these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

- Ideal tool to test and measure the quality of TV and satellite signals, ensuring the signal levels are delivered as required.
- Performs 'Satellite Finder' and 'Field Strength Meter' features in one integrated unit.
 Intends for use by TV service technicians or installers at a price point that makes it feasible for system
- Intends for use by TV service technicians or installers at a price po operators to outfit the entire fleet.
- Allows preliminary understanding of the quality status of the equipment and the network status of digital/analog TV broadcasting.
- Compatible with both digital and analog TV channels with both strong and comprehensive performances through a truly convenient and pragmatic device.
- The single most essential piece of instrumentation required for a Cable TV, Satellite TV and Over-the-Air TV network.
- Seffectively and accurately measure the digital and analog TV channels in all broadcasting media.
- Streamlines basic RF installation and make the installer's or contractor's job easier.

nels in all broadcasting media. actor's job easier.

- Supports all digital TV standards DVB-S/S2, DVB-T/T2, DVB-C/C2, J.83 A/B/C, ATSC 1.0/3.0 •
- All-in-one digital TV installation meter •
- Fast and reliable signal data processing with patented dual-frequency spectrum scan and capture module
- Pre-loaded channel plans for all TV standards •
- Automatic channel discovery to build regional channel plan •
- Android operating system with capacitive touch panel to support multi-touch operation
- High-resolution color LCD display •
- High capacity lithium battery for long operation and storage hours •
- Specific details of measurement statistics to validate channel quality
- Audible tone to reflect signal strength
- DVB-S/S2 specific LNB power compensation, dCSS MDU application, satellite DisEqc rotor test, antenna • angle calculation, built-in table of global satellite and transmitters
- USB interface for firmware upgrade, channel plan editing and measurement result file transfer •
- Intuitive graphical user interface and easy navigation user scenarios
- Lightweight and easy-to-carry handheld design

- Spectrum Analysis
- Channel Measurement Level, QAM, MER, SNR, BER, (Pass/Fail) Limits
- Constellation
- ***** Tilt
- SNR Monitor
- Multi-Channel Scan
- Channel Discovery and Channel Editor
- Report (File) Management
- Satellite specific Multi-Transponder Scan, DiSEqC dCSS Switch Test, Rotor Test, Angle Calculation, Satellite and Transponder Editor

Key Features

SATINK

ST-5810	J83.B	
	1010100	
measurment	Constellation	Spectrum
SNR Time SNR Monitor	Multi-Channel Scan	Flatness (Tilt)
Channel Discovery	Report List	Limit Configuration
Channel Editor	System Setup	i About





DVB-C/C2, J.83 A/B/C, DVB-T/T2, ISDB-T/B/C, ATSC 1.0/3.0

Main Menu







Spectrum Analysis

Max Hold, Min Hold and Average (1 to 20) settings Note: Average 1 means real time spectrum. Greater the average, better the filtering effect for glitches or burst noise.









Channel Measurement & Constellation

	DTV Standards Compliance	
DVB-S	ETSI EN 300-421 v1.1.2	
DVB-S2	ETSI EN 302-307 v1.4.1	
DVB-C	ETSI EN 300-429 v1.2.1	
DVB-C2	ETSI EN 302-769 v1.2.1	
DVB-T	ETSI EN 300-744 V1.6.1	
DVB-T2	ETSI EN 302-755 v1.3.1	
ISDB-T	ARIB STD-B31 v2.2	
ISDB-S	ARIB STD-B20	
ISDB-C	ITU-T J.83, J.183, JCTEA STD-002	
J.83A/B/C	ITU-T J.83 v3.0	
ATSC 1.0	ATSC A/53	
ATSC 3.0	ATSC A/321, A/322, A/330	
	Spectrum Analysis	
Band Mode	Satellite or Terrestrial/Cable	
Min. Resolution	10 kHz	
SPAN Range	Satellite: 25 to 1200MHz; Terrestrial/Cable: 25 to 950MHz	
Input Frequency Range	Satellite: 900 to 2150MHz; Terrestrial/Cable: 50 to 1000MHz	
Trace Mode	Auto, Max Hold	
Frequency Display Mode	TP Frequency or IF Frequency	
Frame Speed	10 frames/sec. (typical)	
Attenuator	0 to 60dB	
Average	1 to 20	
Marker	2 Markers	
dB/Div Resolution	5 to 20dB	
Unit	dBm or dBuV	
Measurement	Run / Pause Switchable	
	General	
LCD	3.95", 480 x 3RGB x 320, 16-bit Color	
Touch Panel	Capacitive Touch	
Active touch area	55.68mm x 83.52mm	
Power Adapter	12VDC / 1A	
Battery	2Cell / 2500mAh	
Power Consumption	8W max.	
Dimension (W x D x H)	8.27' x 3.07' x 1.06' (210 x 78 x 27mm)	
Interface	USB 2.0 x 1	
Funciton	Firmware Upgrade; Satellite/TP and Terrestrial/Cable Channel	
runciton	Plan Modification	

Cable		
	DVB-C2	
Input Frequency	50MHz to 900MHz	
Bandwidth	6MHz, 8MHz	
Guard Interval	1/64, 1/128	
Modulation	16, 64, 256, 1024QAM	
Code Rate	2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
Data Slices	Types 1/2	
Interleaving Modes	4, 8 Symbols or Best-Fit Time	
DVB-C		
Input Frequency	50MHz to 900MHz	
Symbol Rate	1.7M to 7.2M symbols/sec.	
Roll-Off Factor	0.15	
Modulation	16, 32, 64, 128 and 256QAM	
	J.83 A/B/C	
Symbol Rate	A: 5.056941, B: 5.360537, C: 5.6M symbols/sec.	
Roll-Off Factor	0.18, 0.12	
Modulation	64, 256QAM	

Satellite DVB-S/S2		
Input Frequency	950 to 2150MHz	
Input Level	-80 to -10dBm	
LNB Power Supply	14V / 18V / OFF, Imax 650mA	
Port Switch	DisEqc 1.0, DisEqc 1.1	
Motor Control	DisEqc 1.2, USALS	
Symbol Rate	1M to 45M symbols/sec.	
Roll-Off Factor	0.35 / 0.25 / 0.2	
Modulation	DVB-S2: 8PSK/QPSK; DVB-S: QPSK	
	DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8	
Codo Pata	DVB-S2 QPSK: 1/4, 1/3, 2/5, 1/2, 3	
coue rate	5/6, 8/9, 9/10	
	DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 7/	
Satellite Database	Europe, Asia, American, Atlantic	
	dCSS	
Band	EN50494 8UB, EN50607 32UB	
UB Center frequency	Preset or User Defined	
Satellite Number	EN50494 2-Satellite, EN50607 4-S	
Pin Code	\checkmark	

	ATSC		
	ATSC 1.0		
BandWidth	6MHz		
Modulation	8VSB		
Code Rate	2/3		
	ATSC 3.0		
BandWidth	6MHz, 7MHz, 8MHz		
FFT Size	8K, 16K, 32K		
Features	Mandatory Modulation and Codin		
	Combinations		
	All Guard Interval Pattern		
	Single and Multiple PLPs		
	SISO and MISO Transmission		
	TDM, FDM and LDM (Layered Divis		
	Multiplexing)		
	ATSC Link Layer Protocol (ALP) Out		
	Emergency Alert System (EAS) Flag		
	Channel Bonding		

Compliance & Specification

		Terrestrial
		DVB-T2
	Input Frequency	50MHz to 900MHz
	Bandwidth	1.7MHz, 5MHz, 6MHz, 7MHz, 8MHz
	FFT Size	1K, 2K, 8K, 4K, 16K, 32K
	Modulation	16, 32, 64, 128, 256QAM
	Code Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
	PLPs	Single or Multiple PLPs
	T2-Lite Profile	\checkmark
	SISO/MISO Transmission	✓
		DVB-T
	Input Frequency	50MHz to 900MHz
	Bandwidth	6MHz, 7MHz, 8MHz
	FFT Size	2К, 8К
	Modulation	QPSK, 16, 64QAM
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
		ISDB-T
	Input Frequency	50MHz to 900MHz
	Bandwidth	6MHz, 7MHz, 8MHz
	FFT Size	2К, 4К, 8К
	Guard Interval	1/4, 1/8, 1/16, 1/32
	Modulation	QPSK, 16, 64QAM
	Code Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
		ISDB-S
	Symbol Rate	28.86M symbols/sec.
	Roll-Off Factor	0.35
	Modulation	BPSK, QPSK, TC8PSK
		BPSK: 1/2
	Code Rate	QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
2PSK		TC8PSK: 2/3
/6.8/9.9/10		ISDB-C
/2, 3/5, 2/3, 4/5	Symbol Rate	5.274M symbols/sec.
	Roll-Off Factor	0.13
/6, 7/8	Modulation	64QAM, 256QAM
itic	Features	Transport Streams Multiplexing Frame (TSMF)
	reatures	Channel Bonding

Satellite





Thank You for Your Time Today!

Questions?





Kevin Shi

Product Line Manager

info@motechsystem.com **EMEA Distribution**



The Netherland

