Deviser S7200 TV Spectrum Analyser - DVBT/T2 DVB-S/S2 and DVB-C

12MM-S7200

The S7200 TV Signal Spectrum Analyzer is a powerful all-in-one tool for broadcast professionals, covering 4–2150 MHz and supporting every major TV standard, including DVB-T/T2, DVB-C, DVB-S/S2, and more. With 4K decoding, fast spectrum analysis, and optional transport-stream monitoring, IPTV, DAB/DAB+, optical, and Wi-Fi analysis, it delivers unmatched versatility in a rugged, touchscreen portable instrument—ideal for installation, commissioning, and field diagnostics.

Features and Benefits

- Supporting 4–2150 MHz with full DVB-T/T2, DVB-C, DVB-S/S2, and analogue standards.
- One instrument replaces multiple testers, simplifying field diagnostics across any broadcast or satellite environment
- Fast spectrum analysis with up to 80 dB dynamic range and rapid sweep for quick fault detection, allowing you to rapidly identify interference, noise, and signal anomalies for faster troubleshooting and improved network uptime.
- Decodes MPEG-2/4, H.264/H.265 and 4K video with real-time transport-stream analysis (TR 101 290) (Transport Stream Analysis, 12MM-S7200-TS sold separately)
- MER/BER & constellation tools – Diagnose modulation issues with precision.
- Optional licenses include - Optical, DAB/DAB+, DVB-C2, 16APSK/32APSK, IPTV & Wi-Fi options – Expand capabilities for modern hybrid networks. (Optional licenses sold separately)
- 7” capacitive touchscreen, long-life Li-ion battery with remote-feed support makes the S7200 perfect for demanding field work, enabling comfortable all-day operation with intuitive control and durable construction.

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Matchmaster
For the Best

System Resources		
	TV	Satellite
Frequency range	4 MHz ~ 1220 MHz	950 MHz ~ 2150 MHz
Frequency span	0 MHz ~ 1216 MHz	0 MHz ~ 1200 MHz
Frequency step	1 kHz	
Resolution bandwidth, -3dB	30 kHz, 100 kHz, 300 kHz, 1 MHz, 3 MHz	
Power level range	-50 ~ +60 dBmV	-30 ~ +60 dBmV
Power level accuracy	<1.5 dB	<1.5 dB
Detector mode	Positive peak, negative peak, sample, average	
Reference level	-30 ~ +60 dBmV	
Markers	2 vertical & 2 horizontal markers	
Analog TV Measurement		
Standards	B/G, I, D/K, L/L', M/N	
Color standards	NTSC, PAL, SECAM	
Frequency step	10 kHz	
HUM measurement	1% ~ 15%	
C/N	>50 dB	
Power level range	-30 ~ +60 dBmV	
Power level accuracy	<1.5 dB	
Level resolution	0.1 dB	
DVB-C Measurement		
Frequency range	42 MHz ~ 1002 MHz	
Modulation type	16 / 32 / 64 / 128 / 256 QAM ITU-J.83 Annex A/B/C	
Symbol rate	1.8 MS/s ~ 7.0 MS/s	
Level resolution	0.1 dB	
Power level range	-30 ~ +50 dBmV	
Power level accuracy	1.5 dB (C/N > 20 dB)	
MER measurement level	~42 dB	
MER measurement accuracy	2.0 dB	
BER	1E-3 ~ 1E-9	
Constellation	Yes	
DVB-C2 Measurement		
Power level range	-30 ~ +50 dBmV	
Power level accuracy	1.5 dB (C/N > 20 dB)	
Guard interval	1/64, 1/128	
Bandwidth	6 MHz, 8 MHz	
Spectrum inversion	Auto	

PLP code rates	2/3, 3/4, 4/5, 5/6, 8/9, 9/10
PLP constellation	16 / 64 / 256 / 1024 / 4096 QAM
Data slices	Type 1 & 2 supported; up to 61 MHz wide
Cell ID	Detected from transmitter station
Network ID	Detected from transmitter station
C2 System ID	Detected from transmitter station
DAB / DAB+ Measurement	
Frequency range	167.392 MHz ~ 239.968 MHz
Power level range	-30 ~ +50 dBmV
Power level accuracy	1.5 dB (C/N > 20 dB)
MER measurement level	3 dB ~ 31 dB
MER measurement accuracy	2.0 dB
CBER	1E-5 ~ 1E-1
DVB-T / H Measurement	
Frequency range	42 MHz ~ 1002 MHz
Modulation type	QPSK, 16 / 64 QAM
Level resolution	0.1 dB
Power level range	-35 ~ +50 dBmV
Power level accuracy	1.5 dB (C/N > 20 dB)
MER measurement level	>35 dB
MER measurement accuracy	2.0 dB
CBER / VBER	Yes
Constellation	Yes
Echo pattern	Yes
DVB-T2 Measurement	
Frequency range	42 MHz ~ 1002 MHz
Modulation type	QPSK, 16 / 64 / 256 QAM
Level resolution	0.1 dB
Power level range	-35 ~ +50 dBmV
Power level accuracy	±1.5 dB (C/N > 20 dB)
MER measurement level	>40 dB
MER measurement accuracy	32.0 dB
CBER / LBER	Yes
Constellation	Yes
Echo pattern	Yes
T2-MI	Yes
ATSC Measurement	
Modulation type	8VSB
Level resolution	0.1 dB
Power level range	-35 ~ +50 dBmV

Power level accuracy	31.5 dB (C/N > 20 dB)
MER measurement level	>40 dB
MER measurement accuracy	32.0 dB
BER	Yes
Constellation	Yes
ISDB-T Measurement	
Modulation type	QPSK, 16 / 64 QAM
Modulation bandwidth	6 MHz
Level resolution	0.1 dB
Power level range	-35 ~ +50 dBmV
Power level accuracy	31.5 dB (C/N > 20 dB)
MER measurement level	>40 dB
MER measurement accuracy	32.0 dB
CBER	1E-1 ~ 1E-5
VBER	1E-1 ~ 1E-7
Constellation	Yes
DVB-S / S2 Measurement	
Modulation type	QPSK, 8 PSK, 16 APSK, 32 APSK
Symbol rate (DVB-S)	2 ~ 45 MS/s
Symbol rate (QPSK DVB-S2)	1 ~ 45 MS/s
Symbol rate (8PSK DVB-S2)	1 ~ 45 MS/s
Symbol rate (16APSK DVB-S2)	1 ~ 45 MS/s
Symbol rate (32APSK DVB-S2)	1 ~ 38 MS/s
Level resolution	0.1 dB
Power level range	-20 ~ +50 dBmV
Power level accuracy	31.5 dB (C/N > 20 dB)
MER measurement level	>25 dB
MER measurement accuracy	32.0 dB
BER (CBER / VBER)	DVB-S
BER (CBER / LBER)	DVB-S2
Constellation	Yes
Video / Audio Decoder	
Video	MPEG-2 / 4, H.264, H.265, VC-1, AVS / AVS+
Video resolution	4K, 1080p, 720p, 576i
Audio	MPEG-1 / 2, AAC / AAC+, DRA

CAM	EN50221 (DVB-CI), PCMCIA interface
TS-ASI input & output	Yes
TS recording	Yes
Transport Stream Analyzer	
Standard interface	EN 50083-9 (DVB SPI, ASI)
Real-time decoder	Displays real-time TV feed (through CA system), including program names & numbers, provider information, and video & audio PIDs
TR 101 290 Priority 1, 2, and 3 Monitoring	TR 101 290 Priority 1 / 2 / 3 real-time monitoring, not including buffer test related parameters
Base information	Counts PIDs according to stream type: video, audio, PSI/SI, and null packages
PID List	Displays all PIDs in the current stream
Program information	Displays detailed information on unencrypted programs, including v ideo resolution and audio compression rate
PCR Monitoring	Calculates PCR interval and PCR accuracy
PSI / SI List	Displays PSI / SI information in tree format, including PAT, PMT, and CAT (NIT, SDT, RST, TDT, EIT by option only)
PID Capture	Captures a specific PID by type: video, audio, PSI (PAT, PMT, NIT, TDT, RST, SDT, EIT, etc.). Displays in HEX format
TS Record & Replay	SSD for transport stream recording
Transport Stream Analyzer (DVB-ASI Parameters)	
Interface	75 Ω BNC
Clock	270 MHz
Max data rate	0 ~ 72 Mbps
Output signal level	1.0 Vp-p nominal
Return loss	>15 dB
Input level	800 mV 3 10%
IPTV Analysis	
Support protocol	UDP, RTP
Support transport type	MPEG-2 TS over IP
Broadcast type	Unicast, multicast
Maximum stream rate (Unicast)	<20 Mbps
Maximum stream rate (Multicast)	<50 Mbps

WiFi Analysis	
Frequency	2.4G, 5G
Supported standards	802.11 a/b/g/n
Security mode	WPA / WPA2 / WPA-PSK / WPA2-PSK
Test parameters	SSID, Level, Channel
Optical Power Measurement	
Wavelengths	1310 nm, 1490 nm, 1550 nm
Power level range	-50 ~ +27 dBm
Accuracy	30.17 dB (33%)
Linearity	0.07 dB / 10 dB
Resolution	0.01 dBm
Interface	FC / SC / ST / APC General Optical Adapter
Optical Receiver	
Conversion dynamic range	<10 dBm
RF band converted (optical cable & DTT links)	65 ~ 1000 MHz
RF band converted (optical IF-satellite installations)	950 ~ 2150 MHz
Interface	
RF input	75 Ω F (cable TV)
50 Ω SMA (DVB-T/ T2 / ATSC / ISDB-T / DTMB)	
A/V input & output	3.5 mm multi-pole jack
USB	1 x USB 3.0 port
LAN	2 x RJ-45 100 / 1000M ports
CAM	1 x PCMCIA
TS-ASI input/output	2 x 75 Ω BNC
GPS input	USB dongle
General	
Display	7" TFT LCD, 800 x 480 pixels, capacitive touchscreen
Power adapter (AC)	100 ~ 240 V / 50 ~ 60 Hz
Power adapter (DC)	12 V / 5 A
Battery	Li-ion, 7.4 V / 13 Ah
Charge time	~5 hours
Operating time	>5 hours
Remote feeding	5 / 13 / 15 / 18 / 24 V, max 5 W
22 kHz control signals	DiSEqC 1.2 and SatCR
Operating temperature	-10°C ~ +50°C
Dimensions (W x H x L)	~10.0" x 7.6" x 3.3" (253 mm x 194 mm x 84 mm)
Weight	~5.3 lbs (2.4 kg)