



TV Signal Analyzer S7200

Specifications

Features

- All-in-one Digital TV Spectrum Analyzer, 4 ~ 2150 MHz
- DVB-C/C2, DVB-T/H/T2, ATSC, ISDB-T/T5, DTMB, DVB-S/S2, DAB/DAB+ demodulation
- Decodes multiple video standards: MPEG-2/4, H.264/H.265, VC-1, AVS/AVS+
- Compatible with 4K, 1080p, 720p, and 576i
- Supports DVB-Cl and BISS 1/E
- Transport Stream Analysis: RF, ASI, and IP input
- IPTV Analysis (by option)
- Optical power meter and optical receiver (by option)
- WiFi Analysis and Communication Module (by option)
- Double 1000M LAN, USB 3.0 ports
- Capacitive touchscreen

Model		S7200		
Spectrum Analysis	Frequency Range	4MHz ~ 1220MHz (TV), 950 MHz ~ 2150 MHz (Satellite)	DAB/DAB+ Frequency Range	167.392MHz ~ 239.968MHz
	Frequency Span	0 MHz ~ 1216 MHz (TV), 0MHz ~ 1200MHz (Satellite)	DAB/DAB+ Power Level Range	-30dBmV ~ +50dBmV / ±1.5 dB (C/N > 20 dB)
	Frequency Step	1 kHz (TV & Satellite)	DAB/DAB+ MER Measurement	3 ~ 31dB / ±2.0 dB
	Resolution Bandwidth	30kHz, 100kHz, 300kHz, 1MHz, 3MHz (-3dB)	DAB/DAB+ CBER	1E-5 ~ 1E-1
	Level Measurement Range	-50dBmV ~ +60dBmV (TV), -30dBmV ~ +60dBmV (Satellite)	DAB/DAB+ Frequency Range	42~1002MHz
	Accuracy of Measurements	<1.5 dB	DAB/DAB+ Modulation Type	QPSK, 16 QAM, 64 QAM
	Measurement Detector	Positive Peak, Negative Peak, Sample, Average	DAB/DAB+ Power Level Range	-35dBmV ~ +50dBmV/±1.5 dB (C/N > 20 dB)
	Reference Level	-30dBmV ~ +60dBmV	DAB/DAB+ Level Resolution	0.1 dB
	Markers	2 Vertical and 2 Horizontal markers	DAB/DAB+ MER Measurement	> 35 dB/±2.0 dB
	Standards	B/G, I, D/K, L/L', M/N	DAB/DAB+ CBER/VBER	✓
Analogue TV Measurement	Color Standards	PAL, SECAM, NTSC	DAB/DAB+ Constellation /Echo Pattern	✓ / ✓
	Frequency Step	10 kHz	DAB/DAB+ Frequency Range	42~1002MHz
	Hum Measurement	1% ~ 15%	DAB/DAB+ Modulation Type	QPSK, 16 QAM, 64 QAM, 256QAM
	C/N	> 50dB	DAB/DAB+ Power Level Range	-35dBmV ~ +50dBmV/±1.5 dB (C/N > 20 dB)
	Level Measurement Range	-30dBmV ~ +60dBmV / < 1.5 dB	DAB/DAB+ Level Resolution	0.1dB
	Level Resolution	0.1 dB	DAB/DAB+ MER Measurement	>40 dB/±2.0 dB
DVB-C Measurement	Frequency Range	42~1002MHz	DAB/DAB+ CBER/LBER	✓
	Modulation Type	16/32/64/128/256 QAM ITU-T.J.83 ANNEX A/B/C	DAB/DAB+ Constellation / Echo Patter	✓ / ✓
	Symbol Rate	1.8 MS/s ~ 7.0 MS/s	DAB/DAB+ T2-MI	✓
	Power Level Range	-30dBmV ~ +50dBmV / ±1.5 dB(C/N > 20 dB)	DAB/DAB+ Modulation Type	8 VSB
	Level Resolution	0.1 dB	DAB/DAB+ Power Level Range	-35dBmV ~ 50dBmV/±1.5 dB (C/N > 20 dB)
	MER Measurement	~42dB/±2.0 dB	DAB/DAB+ Level Resolution	0.1 dB
	BER	1E-3 ~ 1E-9	DAB/DAB+ MER Measurement	>40 dB/±2.0 dB
DVB-C2 Measurement	Constellation	✓	DAB/DAB+ BER	✓
	Power Level Range	-30dBmV ~ +50dBmV / ±1.5 dB(C/N > 20 dB)	DAB/DAB+ Constellation	✓
	Guard Interval	1/64, 1/128	DAB/DAB+ Modulation Type	QPSK, 16 QAM, 64 QAM
	Bandwidth	6MHz and 8MHz	DAB/DAB+ Modulation Bandwidth	6MHz
	Spectrum Inversion	Auto	DAB/DAB+ Power Level Range	-35dBmV ~ 50dBmV/±2.0dB(C/N>20dB)
	PLP Code Rates	2/3, 3/4, 4/5, 5/6, 8/9, 9/10	DAB/DAB+ Power Resolution	0.1dB
	PLP Constellation	16, 64, 256, 1024, 4096QAM	DAB/DAB+ MER Measurement	>40dB/±2.0dB
	Data Slices	Type 1 & 2 supported, width up to 7.61MHz	DAB/DAB+ CBER / VBER	1E-1~1E-5 / E-1~1E-7
	Cell ID	Detected from Transmitter Station	DAB/DAB+ Constellation	✓
	Network ID	Detected from Transmitter Station	DAB/DAB+ Carriers	C=1,3780
	C2 System ID	Detected from Transmitter Station	DAB/DAB+ Power Level Range	25~ 110dBmV / ±2.0 dB(C/N > 20 dB)
			DAB/DAB+ MER Measurement	30dB / ±2.0 dB
			DAB/DAB+ BER	1E-1~1E-5

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CABD/CATV NETWORK SOLUTION

Measuring Equipment

Model		S7200	
DVB-S/S2 Measurement	Modulation Type	QPSK, 8PSK, 16APSK, 32APSK	IPTV Analysis
	Symbol Rate	2 - 45 MS/s (DVB-S), 1 - 45 MS/s (QPSK DVB-S2), 1 - 45 MS/s (8PSK DVB-S2), 1 - 45 MS/s (16APSK DVB-S2), 1 - 38 MS/s (32APSK DVB-S2)	Support Protocol
	Power Level Range	-20 - 50dBmV ±1.5 dB (C/N>20dB)	Support Transport Type
	Level Resolution	0.1 dB	Broadcast Type
	MER Measurement	> 25 dB ±2.0 dB	Unicast max stream rate
	BER	DVB-S (CBER/VBER), DVB-S2 (CBER/LBER)	Multicast max stream rate
	Constellation	✓	Frequency
	Video	MPEG2/4, H.264, H.265, VC-1, AVS/AVS+	Support Standard
	Video Resolution	4K, 1080p, 720p and 576i	Security Mode
	Audio	MPEG1/2, AAC, AAC+, DRA	Test Parameters
Video/Audio Decoder	CAM Module	EN50221 (DVB-CI) PCMCIA interface	SSID, Level, Channel
	BISS Decryption	Support Mode 1 and Mode E	Measurement Wavelength
	TS-ASI Input and Output	✓	1310nm, 1490nm, 1550nm
	TS Record	✓	Measurement Range
	Standard Interface	En 50083-9(DVB SPI, ASI)	-50dBm ~ 27dBm ±0.17dB (±3%)
	DVB-ASI Interface	75 Ω BNC	Linearity
	DVB-ASI Clock	270 MHz	Resolution
	DVB-ASI Max Data Rate	0 to 72 Mbps	Interface
	DVB-ASI Output Signal Level	1.0 Vp-p nominal	(FC/SC/ST) / APC General Optical Adaptor
	DVB-ASI Return Loss	> 15dB	<+10dBm
TS Analyzer	DVB-ASI Input Level	800 mV +/- 10%	Cable and DTTB Band
	Real time Decoder	Displays real-time TV feed (through CA system), including program names & numbers, provider information, and video & audio PIDs	Satellite IF-Band
	TR101290 Priority 1, 2 &3 Monitoring	TR 101 290 Priority 1 / 2 / 3 real-time monitoring, not including buffer test related parameters	RF Input
	Base Information	Counts PID % according to stream type. Video, audio, PSI/SI, and null packages.	3.5mm Multi-pole jack
	PID List	Displays all PIDs in the current stream	USB
	Program Information	Displays detailed information on unencrypted programs, including video resolution and audio compression rate	LAN
	PCR Monitoring	Calculates PCR interval and PCR accuracy	CAM
	PSI/SI List	Displays PSI/SI information in tree format. Includes PAT, PMT, and CAT. (NIT, SDT, RST, TDT, EIT by option only)	TS-ASI Input / Output
	Program Info	EPG	DC Supply Input
	PID Capture	Captures a specific PID by type: video, audio, PSI (PAT, PMT, NIT, TDT, RST, SDT, EIT, etc). Displays in HEX format	GPS Input
Transport Record and Replay		SSD for transport stream recording	Display
General		7 inches TFT LCD 800 × 480 pixels, Capacitive Touch Screen	
External AC Power Adapter		Input: AC 100 - 240 V/50-60 Hz, Output: DC 12 V/5 A	
Battery		Li-ion, 7.4 V/13 Ah	
Charge Time		around 5 Hours	
Battery Operating Time		> 5 Hours	
Remote Feeding		5/13/15/18/24 V, Max. 5 W	
22 kHz Control Signals		DiSEqC 1.2 and SaTCR	
Dimension (WxHxL) / Weight		253 mm x 194 mm x 84mm / 2.4 kg	
Operating Temperature		-10°C ~ +50°C	

Model		S7200			
TV Monitoring	Spectrum Analysis	DVB-S/S2 Signal Analysis	DVB-C Signal Analysis		
DVB-C2 Signal Analysis	DAB/DAB+ Signal Analysis	ATSC Signal Analysis			ISDB-T/TB Signal Analysis
DVB-T/T2 Signal Analysis		WiFi Analysis	DTMB Signal Analysis		
Transport Stream Analysis & Monitoring					

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