



RF AND IPTV VERSIONS

THE LATEST BROADCAST TECHNOLOGIES

ATSC 3.0 ISDB-T DVB-S2x...

NEXT-GENERATION BROADCAST ANALYZERS

AND PORTABLE ANALYZERS FOR IP ENVIRONMENTS

ATLAS

ATLAS IP

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 SMPTE ST2110



 SRT SECURE RELIABLE
TRANSPORT

SPECIFICATIONS	ATLAS IP - PORTABLE ANALYZER FOR BROADCAST ENVIRONMENT	ATLAS NG - NEXT GENERATION SPECTRUM AND BROADCAST ANALYZER
BROADCAST STANDARDS		DVB-T, DVB-T2 (T2-base, T2-lite), ISDB-T/Tb (full seg / 1seg), ATSC 1.0, ATSC 3.0, DAB, DAB+ DVB-C, DVB-C2, J.83 annex-B, 16/64/256-QAM DVB-S, DVB-S2 VCM/ACM/CCM, DVB-S2x, DSS, QPSK Analogue terrestrial (PAL, SECAM, NTSC), FM RDS
AUDIO CODECS	MPEG-1, MPEG-2, AAC, HE-AAC, Dolby Digital (DD), Dolby Digital Plus (DD+), Dolby AC-4	
VIDEO CODECS	MPEG-1, MPEG-2, MPEG-4 / H.264 (CBP, MP, High Profile Level 5.2), HEVC / H.265 4k UHD (Main Profile Level 5.1 8b/10b)	
INPUTS AND OUTPUTS	- ASI/SDI input and output (BNC-F, 75 Ω 3 Gbps) - SFP+ connector - HDMI™ output (v1.4b up to 3840x2160 pixels @30 Hz) - USB 2.0 master/device (Type C). Storage and remote commands - Ethernet: webControl and remote commands	- IPTV input (RJ45) 10/100/1000 Mbps - Stereo output (jack 3.5 mm) - USB 3.0 host (A-type, USB-CDC devices) - CAM (DVB-CI, module input) <i>Also includes:</i> - Universal RF input (N-type, female 50 Ω) - Analogue audio/video input (jack 3.5 mm) - Optical input (FC/APC, female) 1 PPS / 10 MHz reference input - Dual SIM slot (optional)
FUNCTIONS	- SMPTE ST2110 measurements (optional) - SRT measurements 4K decoder - Screenshots - Service recording - Task planner - Signal monitoring - Remote control (webControl) - Video/Audio streaming	- TS recording - TS analysis - IPTV multicast: measurement, decoding - Eye diagram (HD-SDI, 3G-SDI) 8 GB internal memory, expandable via USB - OTT <i>Also includes:</i> - Constellation diagram - LTE ingress test - Dynamic echoes analysis - StealthID (instant identification of tuning parameters) - PLS (Physical Layer Scrambling) - Ultra fast spectrum - MAX and MIN hold - FM RDS measurement and decoding - Datalogger - Beacon-Flyaways SNG and VSAT - Wideband LNB - WiFi - LTE 1.8 GHz - Field strength - Metrogram - Spectrogram - MER by carrier - GPS (included) coverage analysis - ALP recording - Full band optical power measurement - SCAN + TILT - Shoulder attenuation - Network delay - DVB-2 MI analysis - Carrier Frequency Drift Test
SPECTRUM ANALYZER Spectrum analyzer mode TV mode Measurement margin Span (depending on band) Resolution bandwidths	From 5 MHz to 6 GHz From 5 to 1000 MHz (Terrestrial) / From 250 to 3000 MHz (Satellite) 1 ~ 130 dBμV (5MHz to 3GHz) / 10 ~ 130 dBμV (3 to 4.425GHz) 11 ~ 130 dBμV (4.425 to 6GHz) User-defined / 10 / 20 / 50 / 100 / 200 / 500 / 1000 / 3000 MHz / Full span 2, 10, 20, 30, 40, 100, 200, 1000 kHz	
MEASUREMENT MODE (ATLAS NG ONLY) Frequency margin DVB-T (COFDM) DVB-T2 Base y Lite (COFDM) ISDB-T (COFDM) DVB-C (QAM) DVB-C2 (QAM) J83 Annex B (QAM) ATSC 1.0 (8VSB) ATSC 3.0 (COFDM) DVB-S (QPSK) DVB-S2 (QPSK, 8PSK 16/32 APSK) DVB-S2x (QPSK, 8PSK, 8/16/32/64/128/256 APSK/APSK-L) DSS (QPSK) PAL, SECAM and NTSC (analog TV) FM RDS radio FM RDS radio (advanced option) DAB/DAB+ radio (advanced option)	From 45 to 1000 MHz (terrestrial), from 250 to 3000 MHz (satellite). Frequency resolution 1 kHz. Power (20 dBμV - 130 dBμV), CBER, VBER, MER, C/N, Wrong packets, Link Margin Power (20 dBμV - 130 dBμV), CBER, C/N, LBER, MER, Link Margin, BCH ESR, Iteraciones LDP, Wrong packets Power (20 dBμV - 130 dBμV), CBER, VBER, MER, C/N, Wrong packets, Link Margin Power (20 dBμV - 130 dBμV), BER, MER, C/N, Wrong packets, Link Margin Power (20 dBμV - 130 dBμV), CBER, MER, C/N, LBER, BCH ESR, Iteraciones LDP, Wrong packets Power (20 dBμV - 130 dBμV), BER, MER, C/N, Wrong packets, Link Margin Power (20 dBμV - 130 dBμV), SER, VBER, MER, Wrong packets, C/N, Link Margin Power (20 dBμV - 130 dBμV), CBER, MER, Wrong packets, C/N, LBER, BCH ESR Power (35 dBμV - 127 dBμV), CBER, VBER, MER, C/N, Link Margin Power (35 dBμV - 127 dBμV), CBER, LBER, MER, Wrong packets, C/N, BCH ESR, Link Margin Power (35 dBμV - 127 dBμV), CBER, LBER, MER, Wrong packets, C/N, BCH ESR, Link Margin Power (35 dBμV - 115 dBμV), CBER, VBER, MER, C/N, Wrong packets, Noise margin Level, C/N, V/A (M/N/B/G/I/D/K/L) Level, C/N, RDS information MPX power, Frequency offset, Bandwidth, Freq. deviation (L, R, L+R, L-R, MPX, RDS, pilots), Level (L, R, L-R, L+R, MPX) Power, C/N, MER, CBER, MSC CBER, FIC CBER, FIB RATIO, Offset, Bandwidth	
OPERATING MODES	IPTV multicast/unicast, SD/HD/3G-SDI, ASI-TS Streaming analyzer with SRT and OTT support	<i>Also includes:</i> Spectrum analyzer, WiFi 802.11 ac/a/b/g/n analyzer, 4G/5G telephony (optional)
INTERNAL STORAGE	8 GB for measurement protocols, screenshots and transport stream recordings	
REMOTE CONTROL	Remote commands. webControl interface (IP control input and WiFi) and SNMP protocol (IP control input and WiFi)	
GENERAL	Color 10,1" TFT 16:9 screen. 850 cd/m ² . Multitouch user interface.	<i>Also includes:</i> DiSEqC 2.x generator (DiSEqC 1.2 commands implemented). dCSS/SCD2 (EN50607) and SATCR/SCD (EN50494)
POWER SUPPLY	> 4 h with Smart power management	
INCLUDED ACCESSORIES	WiFi dongle, DC Adapter+cable, Car lighter adapter, Transport belt, Pouch, Transport case, Monopode	<i>Also includes:</i> GPS, A/V jack cable, WiFi antenna, RF adapters, GPS

OPTIONS	ATLAS IP	ATLAS NG
OP-006-PS Optical fibre: Selective optical power meter + optical to RF converter		Available
OP-006-FM Advanced measurements for FM radio		Available
OP-006-DAB Advanced measurements for DAB/DAB+ digital radio		Available
OP-006-T 4G/5G measurements		Available
OP-006-OT Optical SDI and ASI output	Available	Available
OP-006-OR Optical SDI and ASI input	Available	Available
OP-006-XX SMPTE ST2110 measurements	Available	Available

OPERATING MODES	(Model dependant, please refer to table above)
Spectrum analyzer IPTV multicast/unicast SD/HD/3G-SDI Streaming analyzer WiFi 802.11 ac/a/b/g/n analyzer ASI-TS 4G/5G telephony (optional)	Power measurement, C/N, Frequency, max/min traces hold. Includes 4 delta markers with frequency and level measurement. More than 20 measurements (including Jitter, Packet rate, Histogram + jitter, Inter Packet Arrival Time). Multicast. T2MI&BTS reception. 3 Gbps input/output. Eye statistical diagram, CRC error detection, 16 AES3 audio channel monitoring, 1080p 60 pattern chart. SRT reception in caller, listener, and rendezvous modes. More than 12 metrics including RTT, latency, NACK packets, and received TS analysis. Spectrum analyzer + WiFi dongle. RSSI, Access point occupancy, SNR, Noise TS, T2MI and BTS support Dual SIM. Uplink/Downlink bands indication over the spectrum. Measurements: RSSI, RSRP, RSRQ, SINR, SRXLEV.