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ATLOV S



FOR THOSE WHO DO NOT COMPROMISE and equip themselves with top-shelf test equipment only, we created ATLAS NG, a multipurpose and featured packed spectrum analyzer which covers the most stringent requirements for broadcast professionals. DVB-S2x, ATSC 3.0, IPTV, Fiber optics, 3G-SDI, Transport stream ASI, Wi-Fi, Mobile, OTT... all checked!

The new outer frame offers extreme ruggedness while featuring a larger 10" touch screen and maximizing grip and ease of handling.



ATSC 3.0 AND S2x

NEXT-GENERATION TECHNOLOGIES.



6 GHz FREQUENCY RANGE

INTERFERENCE MITIGATION IN MODERN WIRELESS NETWORKS.



4K UHD VIDEO DEMODULATION

INCORPORATES HDMI™ 1.4 CONNECTIVITY.



SDI INPUT

BROADCAST STUDIOS AND OB VANS.



FIBER OPTICS, IPTV, OTT, WiFi...

OUTSTANDING I/O CAPABILITIES.

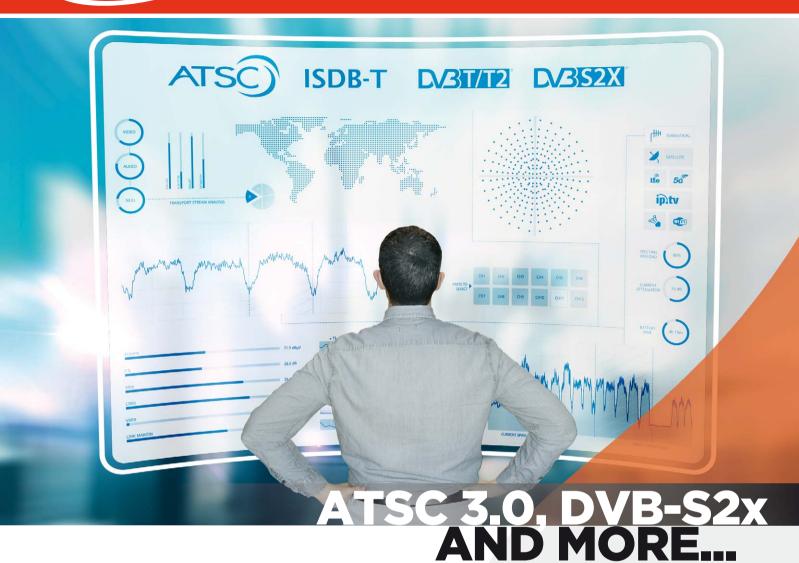


10" MULTITOUCH SCREEN

HIGHLY INTUITIVE CONTROL.









ATSC 3.0

ROUTE & MMT ENCODING.



DVB-S2x

NEW SATELLITE TECHNOLOGY.



DVB-S2/T2/C2

FOR SATELLITE, TERRESTRIAL AND CABLE.



ISDB-T

SELECTABLE LAYERS AND EWBS.

THE LATEST BROADCAST TECHNOLOGIES: New television

standards such as **ATSC 3.0** push forward frontiers in what technology is capable of. ATSC 3.0 makes use of OFDM and as many as four simultaneous PLPs (Physical Layer Pipes) at the physical layer and modulation schemes up to 4096-QAM.

DVB-S2x is the new kid on the block in satellite broadcast. It provides higher throughputs and new signal modulation schemes that only the most advanced broadcast analyzers such as the **ATLAS NG** can handle.

64/128/256-APSK modulations, 5%, 10% and 15% reduced roll-off factors, improved filtering and carrier spacing, and channel bonding are just some of the new technologies adopted by this new standard, and of course, **ATLAS NG** is fully compatible.



ATLOV S



WITH AN IMPROVED USER EXPERIENCE

PARTNER YOURSELF WITH AN ANALYZER capable of taking measurements up to 6 GHz covering the S and C bands, where an increasing number of

the S and C bands, where an increasing number of technologies are all fiercely competing for bandwidth.

Technologies using S and/or C band are: Satellite teleports, VSAT ground networks, Radar, Terrestrial microwave links, Broadband Wireless Access (BWA) networks (LTE, Wi-Max, 5G, etc.).

Applications: TV broadcast & data, Air navigation and maritime communications, Banking comms, E-government, Backhaul in remote areas or in mission-critical operations, Aircraft Radar altimeters, Weather/metereological stations, ITS (Intelligent Transport Systems), ISM (Industrial, Scientific and Medical), etc.

A 6 GHz spectrum analyzer becomes vital to identify and evaluate why systems and services are being disrupted by interferences.



HIGH SPEED DIGITAL PROCESSING



2 kHz TO 1000 kHz RESOLUTION FILTER



DIRECT C-BAND READINGS



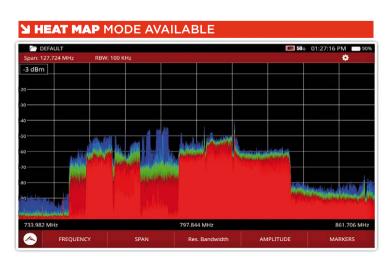
USER-DEFINABLE MARKERS



DETECTION & MITIGATION OF TI TERRESTRIAL INTERFERENCE



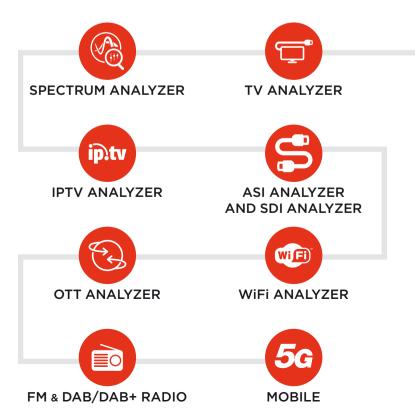
5G INTERFERENCE DETECTION











■ INCLUDES A 3G SDI INPUT

Finding a meter that could close the gap between the studio and transmission departments has been a long time coming, but it is finally here.

The **ATLAS NG** runs full 3G-SDI signal diagnosis, including a professional audio meter and eye diagram, and features an external SDI input for that task, other than the standard ASI input and output.

№ IPTV ANALYZER

The omnipresence of IP technology in the broadcast industry makes it compulsory for an analyzer to be capable of feeding from IPTV signals and monitor them.

Therefore, it becomes essential to have at hand a tester that can monitor and picture IPTV streams.



ATLOV S



IDEAL FOR PROFESSIONAL BROADCAST ENVIRONMENTS

audiovisual production and post-production. The **ATLAS NG** is the most suitable solution for testing the correct deployment and configuration of professional audio and video equipment.

A basic **SDI test signal** generator is Included in the equipment, which can be used to assess communication when a live signal is unavailable or when diagnosing system issues.

Compatible with industry-standard SDI formats (SD-SDI, HD-SDI, and 3G-SDI) with data rates up to 3 GB. It can display video and up to 16 simultaneous audio channels. The built-in **statistical eye diagram** allows an accurate assessment of signal quality.

Offers optional analysis and generation of up to 3 Gbps SDI signals over fiber optic.



SDI CHART GENERATION

SYSTEM TESTING WITHOUT LIVE FEED



SUPPORTS OPTICAL SDI

SUPERIOR SPEED, QUALITY AND RELIABILITY



STATISTICAL EYE DIAGRAM

DISCOVER PROBLEMS AT A GLANCE



UNPROCESSED SIGNAL RECORDING

RAW RECORDING FEATURE



AT LOV S





FANTASTIC CONNECTIVITY



N-TYPE UNIVERSAL INPUT

MORE ROBUST. BETTER RF PERFORMANCE.



OPTICAL FIBER

OPTIONAL SELECTIVE POWER METER AND CONVERTER.



1 PPS INPUT

FOR GPS CLOCK SYNCHRONIZATION.



ASI-SDI INPUT/OUTPUT

FOR BROADCAST ENVIRONMENTS.



SFP+ EXPANSION PORT

READY FOR FUTURE APPLICATIONS.



IPTV INPUT

DEDICATED RJ45 PORT.



USB 3.0 + 8 GB INTERNAL MEMORY

FAST DATA TRANSFER & SOFTWARE UPDATES.



ETHERNET PORT

REMOTE CONTROL. REMOTE COMMANDS.



COMMON INTERFACE

SCRAMBLED SERVICES DE-ENCRYPTION.



ULTRA HD: SUPPORTS HDMI™ 1.4B

2.9 GB/S UP TO 3840x2160 @30 Hz



AT LOV S



AN EFFICIENT DRIVE TEST ANALYSIS tool provides GPS-referenced measurements and allows the creation visual coverage maps on Google Earth. This enables a comprehensive evaluation of terrestrial transmitter performance for FM radio, DAB/DAB+ digital radio, and the wide range of TV broadcasting standards supported by the equipment.

SEAMLESS OPTICAL FIBER INTEGRATION because broadcast signal reception goes beyond the antenna. In addition to receiving Transport Stream (TS) signals from RF, IP, and ASI inputs, it's also possible to receive them from the Fiber Optic interface, a growing trend in the broadcast industry.



UNLEASH THE POWER OF IPTV

COMPREHENSIVE MEASUREMENTS, BITRATES, DECODING, AND TS ANALYSIS



■ DOUBLE OPTICAL INPUT





ATLOUS







ADVANCED DAB/DAB+ ANALYSIS

MSC CBER, FIC CBER, CBER, FIB RATIO



ETI RECORDING



FM DEVIATION GRAPHIC

THE COMPLETE SET OF FM AND RDS PARAMETERS



OVER 130 MILLION DIGITAL RADIO RECEIVERS SOLD

IN EUROPE. Including in-vehicle receivers, a large portion of Europe now has access to the new generation of digital radio, DAB/DAB+. The ATLAS NG provides an in-depth, advanced analysis option featuring ETI recording and playback, IQ component recording, Constellation, Echoes, Full ensemble CBER, MSC CBER, FIC CBER, audio decoding and other capabilities.

ADVANCED FM ANALYSIS OPTION. ATLAS NG goes the extra mile with its extended and in-depth analysis of FM radio signals, including Modulation Power, Stereo Pilot Detection, Frequency Deviation (of MPX, audio carriers, and RDS carrier), Frequency Offsets, histograms... and the FM deviation graph as per ITU-R SM.1268-2 and SM.1268-4.



ATL063



4G/5G MOBILE NETWORKS AND WIFI ANALYZER

EXTEND YOUR 4G AND 5G NETWORK ANALYSIS. The 4G/5G

option delivers **in-depth analysis across the entire FR1 band**, identifying and classifying all mobile channels based on their technology (4G or 5G), channel access method (TDMA, FDMA...), and distinguishing whether they are uplink or downlink channels. Crucial insights into the network infrastructure being evaluated and potential interference factors.

THE WIFI ANALYZER REVEALS WHAT APPS CANNOT. Wi-Fi bands

in different standards have different reception characteristics. The saturation of lower bands is driving the development of higher frequency technologies and more complex transmission procedures. **ATLAS NG** not only does it identify networks, access points, and active channels in each band, but it also provides information about the traffic transmitted through each of them.



REAL-TIME WIFI ANALYZER

PARAMETERS, NEWORKS, CHANNELS, ACCESS POINTS...



OPTIONAL 4G/5G ANALYZER

ACTIVE NETWORKS, UPLINK/DOWNLINK BANDS, CELLS, TRAFFIC...

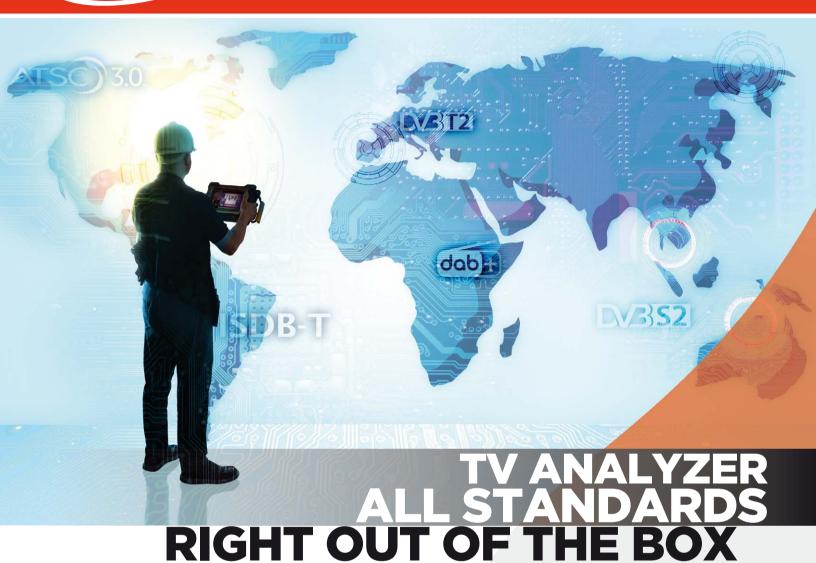


NETWORKS SPEED TEST



ATLOUS







SECOND-GENERATION DVB STANDARDS

DVB-T2 BASE/LITE, DVB-C2, DVB-S2, DVB-S2x



ATSC 3.0 NEXT-GEN TV

THE EMERGING STANDARD



ISDB-T/TB ENABLED

REACHING THREE CONTINENTS



4K INCLUDED AS STANDARD

HEVC, 10-BIT COLOR DEPTH



DYNAMIC ECHOES ANALYZER

FOR OPTIMAL TERRESTRIAL ANTENNA ALIGNMENT



SHOULDER ATTENUATION

DETECTION OF FAILURES AT THE HEADEND



TRANSPORT STREAM RECORDING

UP TO 200 MBPS TO INTERNAL OR EXTERNAL STORAGE

INSTRUMENT WHICH CAN BE USED ANYWHERE IN THE WORLD: The ATLAS NG offers built-in

compatibility with a variety of international broadcasting standards, such as DVB, ISDB-T, ATSC, and ATSC 3.0.

With its unprecedented multi-standard compatibility, **ATLAS NG** is the ultimate global solution tool for identifying, troubleshooting, and preventing problems in terrestrial, satellite, and cable broadcasting.

ADVANCED FM RADIO

ANALYZER: While the future of radio is the digital DAB+, FM radio still plays a vital role and it seems that it has a long way to go yet. The ATLAS NG is equipped with a basic FM analyzer featuring RDS. An optional add-on enables a comprehensive analysis of all FM parameters including pilots, frequency deviation, alternative RDS frequencies, histogram, and more.



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),			
VIDEO CODECS	MPEG-1, MPEG-2, MPEG-4 / H.264 (CBP, MP, High I	Profile Level 5.2), HEVC / H.265 4k UHD (Main F	Profile Level 5.1 8b/10b)	
INPUTS AND OUTPUTS	- ASI/SDI input and output (BNC-F, 75 Ω 3 Gbps) (BNC-F, 75 Ω 3 Gbps) - SFP+ connector - SFP+ connector - SFP+ connector - USB 3.0 host (A-type, USB 2.0 master/device (Type C). Storage and remote commands - Ethernet: webControl and remote commands	Also includes: - 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 - TS recording	Also includes:		
	measurements (optional) - TS analysis - SRT measurements - 4K decoder - Screenshots - Service recording - Task planner - Signal monitoring - Remote control (webControl) - Video/Audio streaming	- 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 - Field strengtl - Merogram - MER by carri	analysis - ALP recording - 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 (SMHz 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		
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-S2 (QPSK, 8PSK, 8PSK, 16/32/64/128/256 APSK/APSK-L)	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), BER, 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, WBER, WRR, 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, 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			
DSS (QPSK) PAL, SECAM and NTSC (analog TV) FM RDS radio FM RDS radio (advanced option)	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, MPX)			
DAB/DAB+ radio (advanced option)	Power, C/N, MER, CBER, MSC CBER, FIC CBER, FI	B RATIO, Offset, Bandwidth		
OPERATING MODES	IPTV multicast/unicast, SD/HD/3G-SDI, ASI-TS Streaming analyzer with SRT and OTT support	Also includes: Spectrum analyzer, WiFi 802.11 ac/a/b/g/n analyzer, 4G/5G telephony (optional)		
INTERNAL STORAGE	8 GB for measurement protocols, screenshots and train			
REMOTE CONTROL	Remote commands. webControl interface (IP control in	mmands. 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/m². Multitouch user interface.	Also includes: DiSEqC 2.x generator (DiSEqC 1.2 commands implemented). dCSS/SCD2 (EN50607) and SATCR/SCD (EN50494)		
POWER SUPPLY INCLUDED ACCESORIES	> 4 h with Smart power management WiFi dongle, DC Adapter+cable,	Also	includes:	
INOCODED ACCESONICS	Car lighter adapter, Transport belt, Pouch, Transport case, Monopode	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 OP-006-FM Advanced measurements for FM radio OP-006-DAB Advanced measurements for DAB/DAB+ digital radio OP-006-T 4G/5G measurements OP-006-OT Optical SDI and ASI output OP-006-XX SMPTE ST2110 measurements		Available Available Available	Available Available Available Available Available Available Available Available Available	
OPERATING MODES	(Model dependent, please refer to table above)			
OPERATING MODES 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)	ATLAS IP ATLAS NG cal power meter + optical to RF converter or M radio or DAB/DAB+ digital radio or DAB/DAB+ digital radio Available			

