

# ATLOVS

### NEXT-GENERATION SPECTRUM & BROADCAST ANALYZER

THE ALL-IN-ONE ANALYZER

www.promaxelectronics.com





## 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, 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.

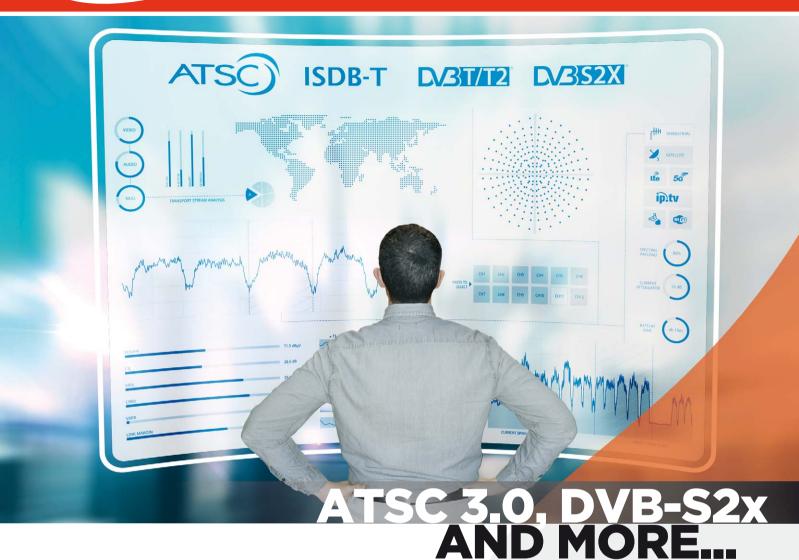


#### 10" MULTITOUCH SCREEN

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.



## ATL063



### PARTNER YOURSELF WITH AN ANALYZER capable of taking

measurements up to 6 GHz covering 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 REAL-TIME SPECTRUM ANALYZER.



**USER-DEFINABLE MARKERS**ACCURATE & DIRECT MEASUREMENTS.



**2 kHz RESOLUTION FILTER**USER SELECTABLE FROM 2 TO 1000 kHz.



TI TERRESTRIAL INTERFERENCE DETECTION AND MITIGATION.



**DIRECT C-BAND READINGS**DIRECT CONNECTION TO YOUR LNA.



**5G INTERFERENCE DETECTION** IMPROVE YOUR WIRELESS NETWORK PERFORMANCE.

## ATLOUS





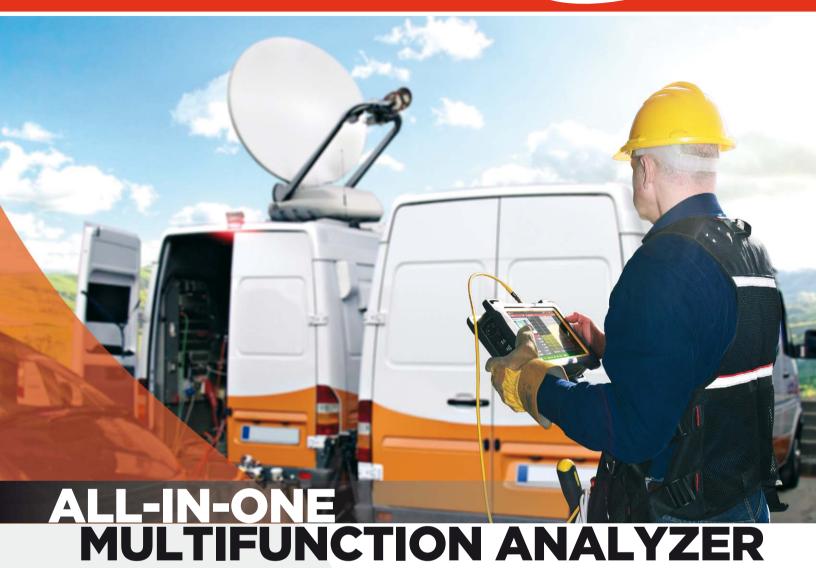
# USER EXPERIENCE

**CUSTOMIZABLE DOCKING PANELS** 





## ATL063



#### ▶ INCLUDES A 3G SDI INPUT

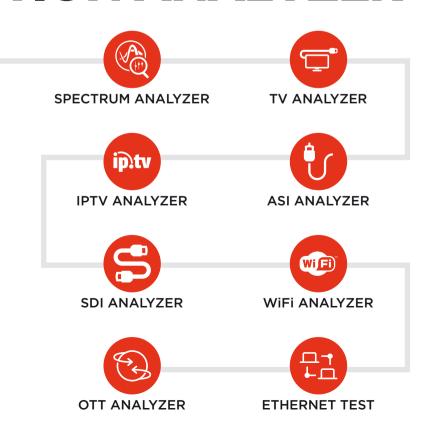
Finding a meter that could close the gap between the studio and transmission departments has been a long time coming, but it is finally here.

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.



### ATLOUS







#### **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

WIRING TEST AND REMOTE CONTROL.



#### **COMMON INTERFACE**

SCRAMBLED SERVICES DE-ENCRYPTION.



#### **ULTRA HD: SUPPORTS HDMI™ 1.4B**

2.9 GB/S UP TO 3840x2160 @30 Hz





SPECIFICATIONS	ATLAS NG - NEXT GENERATION SPECTRUM AND BROADCAST ANALYZER
BROADCAST STANDARDS Digital terrestrial TV / Radio Digital cable Digital satellite Analogue	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, DVB-S2x, DSS, QPSK Analogue terrestrial, FM RDS
DISPLAY	10.1" multitouch 16:9 color TFT. 850 cd/m <sup>2</sup>
INPUTS AND OUTPUTS	- Universal RF input (N-type, female 50 Ω) - ASI/SDI input and output (BNC female, 75 Ω 3 Gbps) - SPF+ connector - Analogue audio/video input (3.5 mm jack) - HDMI™ output (v1.4b up to 3840x2160 pixels @30 Hz) - USB 2.0 (Type C). Mass storage/remote control commands - Ethernet (RJ45) for webControl/remote control commands
REMOTE CONTROL	Control commands, webControl interface (IP control input and WiFi) and SNMP protocol (IP control input and WiFi)
FUNCTIONS	- Constellation diagram - LTE ingress test - Dynamic echoes analysis - OTT - StealthID (instant identification of tuningparameters) - PLS (Physical Layer Scrambling) - Ultra fast Spectrum analyzer - 4K decoder - MAX and MIN hold - FM RDS measurement and decoding - Remote control (webControl) - Screenshots and Datalogger for measurement reports - GPS (included) coverage analysis - Beacon-Flyaways SNG and VSAT - Wideband LNB - SCAN + TILT - TS recording - Nextoding - Nextowrk delay - Network decoding - Network delay - Netwo
TV ANALYZER OPERATING MODE Frequency margin Measurements FM RDS Analogue terrestrial TV Digital terrestrial TV (standard-dependant) Optical LNB (OP-006-PS option) Video codecs Audio codecs Transport Stream	45 to 1000 MHz (terrestrial), 250 to 2350 MHz (satellite). 1 kHz frequency resolution.  Level, Freq deviation (MPX, L+R, L-R, L/R/stereo pilot/RDS pilot), ITU-R SM.1268-2/SM.1268-4 histogram Level, C/N, V/A ratio (PAL/SECAM/NTSC M/N/B/G/I/D/K/L) Power, CBER, VBER, MER, C/N, LBER, Link Margin, BER, BCH ESR, LDPC iterations, PER, SER, Noise Margin, C/N 1310/1490/1550 nm, Optical-To RF (terrestrial/satellite bands) conversion H.265 4k UHD, H.264 4k UHD, MPEG-4 HD/SD, MPEG-2 MPEG-1, MPEG-2, AAC, HE-AAC, Dolby Digital, Dolby Digital Plus. Digital and analogue demodulation MPEG-2 protocol, max recording bitrate 200 Mbps (8 GB internal memory expandable via USB) Transport Stream analyzer: PSI/SI tables, bitrate per service graph, alarms logging and analysis (ETSI TR101 290 v1.2.1)
SPECTRUM ANALYZER MODE	5 MHz to 6 GHz. Measurements: Power, C/N, Frequency. Includes 4 delta markers with frequency and level measurement.
IPTV OPERATING MODE  Measurements Features	Multicast/unicast streams (reception, measurement and recording)  Jitter, packet rate, histogram+jitter, Inter Packet Arrival Time  IGMP v1/v2/v3, VLAN support, Multicast discovery, Video/Audio playout, T2MI&BTS reception
SDI OPERATING MODE	3 Gbps input/output. SD-SDI, HD-SDI and 3G-SDI compatible. Eye statistical diagram, CRC error detection, 16 AES3 audio channel monitoring, LPCM audio loudness meter
WIFI ANALYZER OPERATING MODE	Spectrum analyzer + WiFi dongle
OTT ANALYZER OPERATING MODE	Supports MPEG-DASH and HLS. Codecs H.265, H.264, MPEG-2, VP8, VP9, MVC, WMV9, JPEG/MJPEG, VC-1
ASI-TS OPERATING MODE	Supports TS, T2MI, BTS
EXTERNAL UNITS POWER SUPPLY	5/12/13/15/18/24 V + 22 kHz (satellite band) with DiSEqC 1.2/2.2, SaTCR/SCD (EN50494), dCSS/SCD2 (EN50607)
POWER SUPPLY Battery operation time	12 V external power supply or internal 7.4 V 18.3 Ah Li-po battery with LED status indication > 4 h with Smart power management
INCLUDED ACCESSORIES	External 12 V power supply, car lighter adapter, quick referece guide, RF adapters, GPS, heavy duty transport case
DIMENSIONS AND WEIGHT	304 (W.) x 218 (H.) x 83 (D.) mm, 3.4 kg
OPTIONS	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

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