

HD TAB 9 STCOI: 9-inch touchscreen, fully equipped

This new model stands out thanks to its display and the number of functions it has to offer, it is fully-equipped. The surface of its screen is almost 30% larger than the HD TAB7's.



The connection panel

If we were to take a look at the connectors provided, it would be immediately obvious just how completely equipped this meter is. The new HD TAB 9 STCOI has two inputs: F coaxial and FC/ST/SC optical. Inside the meter there is an optical/electrical converter to carry out power and attenuation measurements, as well as RF measurements from the optical input, the decoding of services and spectrum visualization. There are also: ASI IN and OUT connectors for the Transport Stream (BNC) and 10 MHz and 1PPS BNC connectors. There is even a Common Interface slot. From an Audio/Video point of view there is, not only an HDMI output (useful for connecting a monitor, or video projectors, to reproduce what is being shown on the display), but also two 3.5 mm AV IN and AV OUT jacks with stereo audio. The AV OUT socket behaves like the HDMI OUT, but manages only the SD picture. Finally, there are two USB sockets for firmware upgrades, memory plan management and registration of the screenshots and GPS inputs. On the right side, separate from the others, there are two RJ-45 sockets: TS input over IP and LAN Ethernet.

■ The new HD TAB 9 STCOI is at the top end of the market and is ideal for professional installers. It is supplied with an almost complete range of functions, including optional and included APP's, and as the transport industry would say, it is 'Fully Equipped!'. It is no longer necessary to know the Symbol Rate of the programmes you want to measure or see: the new HD TAB 9 STCOI can find the correct value. This function is built in its new tuner that uses one of the latest microprocessors.

Mechanical and touch keys

As used in previous models, operation is carried out by either touching the screen, or by turning the transponder wheel and using the nine mechanical keys. This allows the installer to work in any situation. The touch screen, however, can be excluded from a menu, this is a useful option if, for example, an installer works on a pylon. Screenshot is a new function shown on the keyboard. If you press the relative key, you can store in bmp (bitmap) format any screen shown on the display; for example: spectrum, constellation, measurements, menu, etc. The file is saved on a memory stick connected to the USB connector.

New features

This analyser can measure digital signals in DVB-S/S2 multi-stream standard, in other words more transmission streams on the same transponder; for example there are many streamings with the same frequency in the RAI transfer transponder, required to distribute the many regional programmes and the DVB-T2 profile in two versions, basic and lite.

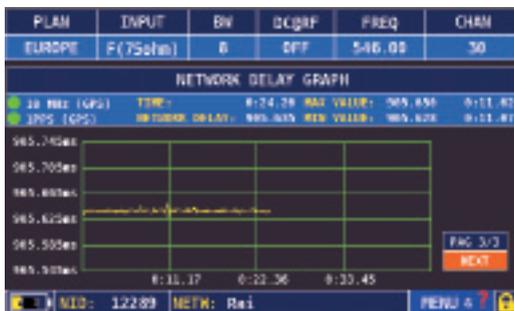
When a DVB-T2 multi-PLP signal is analysed, it is also possible to select the required PLP and



Power and OPTICAL attenuation measurements



GPS signal reception measurements



NETWORK DELAY measurements

evaluate the multi-stream signal composition.

The TS STREAMING function, which is also available in TV and CATV mode, allows you to save the streaming of the signal received in an external memory (so you can see it at another time), or send it to the LAN port.

The instrument also has a TS input over IP to de-encapsulate the contents of the IP stream, carry out quality measurements and decode the services transported.

Transport Stream Analyser

The HD TAB 9 STCOI allows you to carry out analysis and measurements that are typically found in broadcasting applications. The built-in Transport Stream Analyser can carry out the analysis of the stream demodulated by the tuner, or injected through the ASI input and check for the presence of priority 1, 2 and 3 errors, according to regulation ETR 101290. It is also possible to carry out real time Network delay measurements on the signal, thanks to the presence of 10 MHz/1PPS signals (using the relative connectors, or though the built-in GPS receiver). This measurement is of utmost importance for network operators who want to make sure that the Transport Stream respects SFN, terrestrial, digital transmission requirements.

Other functions

As you can see from the table below, The HD TAB 9 STCOI, offers a multitude of other functions that can be selected in the same way as the other ROVER meters. For example, the Echo and Micro-echo measurements in SFN networks, or the MER Versus Carrier measurement, Channel Logger, RBW (Resolution bandwidth) filter function, Sat Expert, Bar Scan (Level/Power of all channels), LTE interference test, LTE filter, Help function, Reflectometer.

THE MEASUREMENTS AVAILABLE DIVIDED IN SECTIONS

RF IN

50 ohm N connector, 75 ohm F connector
 FREQUENCY RANGE 4-2250 MHz
 DVB-S2 MULTISTREAM
 DVB-T2-T2 LITE & C2
 ISDB-T (6/8 MHz) ATSC - GB2060
 ANALOG TV and FM RADIO
 DAB & DAB+
 REAL TIME SPECTRUM (4-2700 MHz)
 MINI SPECTRUM WITH PICTURES
 GSM BAND
 LTE FILTER and ANALYSIS
 ITU QLTY COVERAGE & PRODRIVE TEST SW
 WAVE FORM MONITOR

ASI T.S.

INPUT/OUTPUT
 DVB-T SFN (network delay measur)
 T.S. ANALYZER ETR 101-290
 RECORD/READER

IP TV

DENCAP. from IP to ASI
 ENCAP. from ASI to IP (opt.)
 IP ANALYZER

LAN

T.S. LIVE STREAMING & RECORDING
 REMOTE CONTROL/SNMP & HTTP

OPTICAL

FC-ST-SC interchangeable connector
 POWER MEASUREMENT
 POWER LOSS
 POWER GRAPHIC
 SAT & CATV SPECT & MEASUR

GPS

Position
 10 MHz & 1 PPS
 GPS ANTENNA QUALITY TEST



Rover Laboratories Spa
 via Parini, 2 - 25019 Sirmione (BS) Italy
 Tel. +39.030.91981
 Fax +39.030.9906894
 skype: wecare.roverinstruments
 www.roverinstruments.com
 info@roverinstruments.com