



Televes H30FLEX Spectrum Analyzer User Guide

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H30FLEX spectrum analyzer

All the functions you need in your hand

H30FLEX meter is designed to meet the requirements of TV installers for both satellite and terrestrial signals.

H30FLEX is a light-weight handheld meter packed with all the features required to install and maintain TV systems using different modulation standards, like satellite (DVB-S/S2) or terrestrial/cable (analogue channels, DVB-T/T2 or DVB-C).

Available for the first time in an economic product, digital processing brings installers the opportunity to take measurements with a high level of accuracy, essential to give the installer the peace of mind of a job well done. It allows you to customize upgrade choice with download software.

Different standards included in each reference.
Choose and only pay for the features you need.

Ref.	593314
Logical ref.	H30S2CT2-K
EAN13	8424450192498

Other features

Complement: Meter + Carrying Case +Coaxial Cable Lead

Standards included: DVB-S/S2 + DVB-T/T2 + DVB-C

Physical data

Net weight: 2,184.00 g

Gross weight: 2,184.00 g

Packing

Box: 1 pcs.

Highlights

- Light-weight handheld meter
- User friendly interface
- Multi standard
- All measurements are carried out by pressing a single button equipped with Pass/Fail indicators to reduce installation errors.

Discover

Meter from H30 series: How to choose the most convenient model?

The H30 series consists of different customizable multistandard meters, all of them designed to carry out installation, maintenance and monitoring of telecommunications networks. Each model stands out for offering new functionalities, while preserving all the advantages of the previous model. Through the following comparative table, it is possible to choose the most suitable meter model for each professional:

		H30FLEX	H30EVOLUTION	H30CRYSTAL
Multi-standard customizable		OK	OK	OK
Frequency range	Return P.: 5-50 MHz	X	X	OK
	Terrestrial: 50-880 MHz	OK	OK	OK
	Satellite: 250-2400 MHz	OK (up to 2200 MHz)	OK	OK
Screen		2.8" TFT 400 x 240 full color	2.8" TFT 400 x 240 full color	2.8" TFT 400 x 240 full color
Multi-screen with touch control on mobile device		X	OK	OK

Smartphone armband		X	OK	OK
2,4 / 5GHz WiFi connectivity		X	OK	OK
WiFi analyzer		X	OK(*)	OK(*)
Bluetooth connectivity		X	OK	OK
Ethernet interface		OK	OK	OK
USB interface		USB (A-type)	USB (A-type)	USB (A-type)
Optical measures		X	X	OK
Guided satellite pointing		X	OK	OK
IPTV analyzer		X	OK(*)	OK(*)
LNB Wideband compatible		X	OK	OK
HEVC displaying	on the meter	X	X	OK(*)
	on the mobile device	X	OK(*)	OK(*)
Terrestrial input level to 120dBµV		OK(**)	OK(**)	OK(**)
dCSS compatible		OK(**)	OK(**)	OK(**)
Management interface access (datalogs, channel plan...)		Cable Ethernet	Wireless (WiFi/Bluetooth) Ethernet cable	Wireless (WiFi/Bluetooth) Ethernet cable
Dimensions		175x100x52 mm	175x100x52 mm	175x100x52 mm
Weight		510 g.	510 g.	550 g.
Color		Black & White	Black & Grey	Light & dark grey

* According to reference

** Free activation of the options with the meter registration

Features

Multi Standard



Fully configurable equipment to meet your needs H30FLEX is fully prepared to meet the specific needs of each individual user. It is a multi-standard equipment, ready to take measurements on the satellite band, but also on the terrestrial band channels. In order to meet the changing needs of individual users, the equipment allows them to easily add new options, with no need to send the meter back to the factory

Ready to Capture



signal from any satellite H30FLEX allows you to configure the parameters required for the reception of your satellite signal. To do this, H30FLEX allows preamplifier powering, and configuration of both DiSEqC and SCR parameters.

Interactive User Interface



Optimize the learning curve Scrolling through the menu is now very easy, thanks to its single-level structure, which includes all the functions in a very intuitive way: better utility, higher operation speed, and maximum productivity. No function requires more than three successive button pushes to achieve the desired operation. You will not find any easier-to-use device, and will be able to surf the different functions with no need for a user manual.

Comprehensive Functionality



Pass/Fail indicators A full range of functionalities such as Single-channel measurements, Constellation diagram, Spectrum analyser, Service identification, Data logs, Channel plan auto-learning, and more.

Accuracy and Speed



Real-time digital processing Designed to instantly obtain all the information about the signal in real time, it is a true milestone in field work. H30FLEX provides the required accuracy and speed to detect minor transient radiation, or spurious signals that could affect the system during signal reception

100% Automatic



Signal detection Fully automatic, it detects the parameters of different modulations with no need for configuration. H30FLEX will detect at once whether the input signal is analogue or digital, and will determine its constellation, symbol rate and other modulation parameters, providing an instant reading without any user intervention.

Rugged and Light-Weigh



Absolute reliability Its exclusive casing made of double-injection rubber and polycarbonate plastic guarantees protection and durability. Weighing only one pound, H30FLEX is convenient to carry and use. You can slip it in your pocket or use its strap around your shoulder... You will barely notice it is there!

Made in Televes



Your Quality Warranty The H30FLEX is entirely designed by Gsertel, company within Televes Corporation, where our team of experienced and highly qualified telecommunication engineers managed to integrate digital processing in a handheld unit of 1lb of weight. Each H30FLEX includes more than 5,000 components and integrated circuits.

Functionalities

Pass/Fail Indicators



Easy decision-making Reduce installation mistakes with the on-screen Pass/Fail indicators, a graphical tool that helps and speeds up the interpretation of measurement results. Different thresholds are available depending on the network area to be analyzed: headend, multi-band amplifiers, bridging connection, connection records, user home, etc. Besides the pre-set values, you will be able to customize your own threshold values.

Channel Information



The less the better Sometimes, taking a quick glance at one channel is all you need. The advanced H30FLEX single-channel measurement option automatically detects the channel type, displaying the audio and video levels, A/V and C/N for analogue signals, and power, C/N, and appropriate quality measures for each type of digital signal. All these measures are taken by means of one single button; at that point, all indicators will be activated and display the “Pass/Fail” condition based on the thresholds specified by the user. Easy-to-interpret results, even for junior technicians.

System Scan



Monitored installation Scan each existing analogue and digital channel in real time to determine the overall system frequency response. This function leverages the location-based thresholds to clearly show whether the signal levels meet the cable systems' specifications with green, yellow and red bars. This feature provides an easy-to-understand, real-time view of the system, including the BER and MER values of the selected channel.

Spectrum Analyser



From 5MHz to “full span” H30FLEX spectrum analyser provides a value range of 5, 10, 20, 50, 100, 200, 500 MHz and Full, as well as a reference level auto-adjust feature. Real-time processing speeds ensure the capture of any signal incidents. You will be surprised by the accuracy and the level of detail provided by this ultra-portable pocket

spectrum analyser. The ultimate tool for identifying and localising noise, interference, radiation, and any other signals that may be affecting the quality of the television signal distribution service.

Constellation Diagram



Fine-tune your digitals Constellation analysis is essential for determining the quality of digital signals. Constellation diagrams help detecting noise, jitter, interference and signal saturation, and all the variables that could impact signal quality, eventually leading to service suspension. By visually inspecting the size and shape of the dots in the constellation matrix, the technician will be able to easily identify the nature of the problem

Capture Plan



Custom channel plans Identify the channels in your distribution with the ultra-fast Capture Plan function, and from there build your own channel plan containing only the channels you are interested in. Furthermore, each channel will be displayed on a bar chart with the appropriate color based on the selected quality threshold.

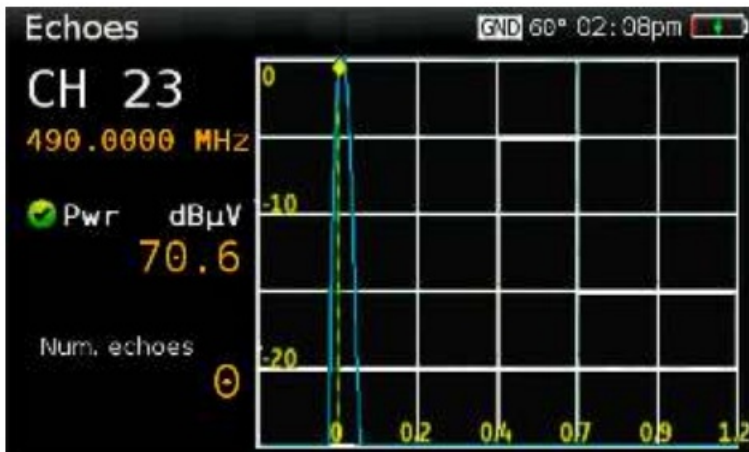
MPEG



MPEG video and detailed information Do you wish to know the contents offered on a DIGITAL channel?H30FLEX function MPEG will tell you. In addition to channel services display, you will get their key parameters: Service name, PID, resolution, audio types and figures, and NIT. A valuable help when troubleshooting your encoder

configuration.

Echo



Optimal signal reception In terms of terrestrial signal reception, controlling the absence of any echoes that could jeopardize reception is crucial. H30FLEX displays the echoes of the received signal, allowing the installer to minimize them for optimal signal reception.

Datalogs



Save and download While you are taking measurements or looking for possible problems, you can save sample signal parameters for further in-depth analysis or just for record and use in your reports. It can also prove to be a useful tool for training purposes.

Analog Audio/Video (*)



Camera display Installations of video surveillance systems are increasing. To display and monitor surveillance


analog cameras, H30FLEX meters add a new software option and an USB video capture converter with Audio, Video and CVBS input connectors. H30FLEX displays NTSC and PAL video formats. The best option to verify the right functioning of the system.

(*) **Optional feature:** Ref. 593236



Documents / Resources

Televes



H30FLEX Spectrum Analyzer

El H30FLEX es un analizador de espectro de video que permite medir la calidad de la señal de video en tiempo real. Este dispositivo es ideal para la verificación de la correcta configuración de los sistemas de video y para la detección de problemas de calidad de la señal.

El H30FLEX puede medir la calidad de la señal de video en tiempo real, lo que permite detectar problemas de calidad de la señal y tomar medidas correctivas inmediatas. Este dispositivo es ideal para la verificación de la correcta configuración de los sistemas de video y para la detección de problemas de calidad de la señal.

Modelo

H30FLEX

Marca

TELEVES

Descripción

Analizador de espectro de video

Modelo

H30FLEX

Marca

TELEVES

Descripción

Analizador de espectro de video

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H30FLEX Spectrum Analyzer, H30FLEX, Spectrum Analyzer, Analyzer

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