Televes





Refs. 596101, 596111

Multi-touch Meter / Analyser

User manual

www.televes.com



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Safety requirements

Product inspection

- Inspect the equipment for shipping damage. Should any damage be discovered, immediately file a claim with the carrier.

Read and Follow All Instructions

 All the safety and operating instructions should be read prior to and followed while operating this product.

Do not obstruct the ventilation slots

Cleaning

- Follow the cleaning instructions contained in the Maintenance section of this manual.

Attachments

- Do not use attachments that are not approved by the product manufacturer

Water and Moisture

- This product is splash water resistant but is not submersible.
- Do not place objects filled with liquids on or near the meter, such as glasses.

Power Sources

- This product should be operated only from the type of power source specified (12VDC - 4A).

-Ensure that the voltage applied to the power connector does not exceed 15V. Higher voltages could damage the equipment

- Maximum consumed current: 4A

Grounding or Polarization

 Do not bypass or defeat electrical plug polarization or grounding. Doing so will violate the warranty and may pose a risk of fire or electrocution.

Wire Protection

- Ensure all connected wiring is routed correctly to avoid damage including pinching, excessive bends, or compression.

 Electrical Supply, Grounding, and Surge Protection

- Ensure that all local or national electrical codes are followed.

Power Lines

- Always use caution and avoid operating this or any connected equipment near uninsulated power lines or any other hazards.

Servicing

- There are no user serviceable parts except the battery pack. Do not attempt to service this product or remove covers. Refer all servicing to qualified service personnel. Follow the instructions in this manual when replacing the battery.

Heat

- The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat..
- Do not place naked flame sources on the meter, such as lighted candles.

Battery pack

- Battery must be replaced by the battery pack supplied by the manufacturer (ref. 596210) only. In no case the battery pack cover can be opened.
- This product should be operated only from the type of power source specified (12VDC 4A).
- Ensure that the voltage applied to the power connector does not exceed 15V. Higher voltages could damage the equipment
- May explode if damaged or disposed of in fire or water
- Class
- Operation of this equipment in a residential environment may cause radio interference.

Symbols and safety labels



Recycle or dispose of used electronic devices properly.



The equipment contains a recyclable battery. Before depositing the equipment in the container of electrical and electronic equipment, you must remove the battery pack and deposit it separately for proper management



Battery can only be replaced by the battery pack supplied by the manufacturer (ref. 596210)



Overview

Introducing the MOSAIQ6

MOSAIQ6 is the new high-performance portable meter, with advanced features and high measurement accuracy. And all in the most automatic and intuitive way in the market, thanks to its intuitive interface and gestural commands.

With **MOSAIQ6**, technicians have a tool to measure, analyse and diagnose radio and TV signals in any scenario, no matter how complex.

MOSAIQ6 has an ultra-fast spectrum analyser with high accuracy, together with the echoes analysis features, allows to detect any important issue of the signal.



Key features

- High performance portable meter
- Intuitive. Thanks to its novel interface, designed to get the most out of its multi-touch 8" screen.
- All the information about the signal in one screen. Mosaiq feature, with up to 6 widgets configurable by the user.
- **Powerful digital spectrum analyser** (scanning < 10ms.) 5MHz 3.3GHz range.
- Easily updateable
- Spectrum analyser with selectable span
- Specific measurements over IP (TSoIP)
- PASS/FAIL indicators: Icons indicate if a measurement is good, bad or in the warning zone for quick and easy status check. Reduce installer entry errors and improve decision making.
- Field-swappable and separately rechargeable battery
- User profiles customization
- Automatic channel scan
- Automatic satellite identification
- GPS for drive test and automatic saving of measurements
- LTE interferences detection and simulation

General Specifications

Display	8"Touch Screen TFT 1024x768 Full Colour
Weight	2150g
Dimensions	250x210x60 mm (H x W x D)
Power supply	Input: 100-240V~ 50-60Hz Output: 24VDC, 4A
Battery Li-ion (7,2VDC, 9000mAh). Field-swappable	
Operating time	> 4 hours
Operating temperature	-5°C to 45°C (23°F to 104°F)
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	5% to 95% without condensation
Interfaces	ETH, USB, HDMI, Audio Out (Jack), FC/APC optical fibre connector, GPS antenna connector
Storage	32 Gb

Technical Specifications

Frequency					
	5 2200 MIL				
Range	5 - 3300 MHz 1 kHz				
Accuracy					
Tuning	Frequency or channel				
Input					
Impedance	50 Ohm				
Spectrum Analyzer					
Span	100 KHz, 1, 5, 10, 20, 50, 100, 200, 500 MHz, 1.0, 2.0 and 3.3 GHz. Other (any value between 100 KHz and 3.3 GHz)				
RBW	500 Hz, 1, 3, 5, 10, 30, 50, 100, 300, 500 KHz, 1, 3, 5 MHz				
Marks	Up to 4, with delta feature				
Event trigger	V				
Waterfall	✓				
Hold feature	Maximum and minimum				
Reference level	Automatic and manual				
Digital measurem	ents DVB-T				
Modulations	COFDM (QPSK, 16QAM, 64QAM)				
Power	20 - 128dBuV				
CBER	9.9E-2 - 1.0E-6				
VBER	1.0E-3 - 1.0E-8				
MER	Up to 40dB				
C/N	Up to 52dB				
Echoes	V				
MER by carrier	V				
Constellation	V				
Uncorrected packets	v				
TILT	V				
Attenuation	\checkmark				
Digital measurem	ents DVB-T2				
Modulations	COFDM (QPSK, 16QAM, 64QAM and 256QAM)				
Power	20 - 128dBµV				
LDPCBER	9.9E-2 - 1.0E-6				
BCHBER	1.0E-3 - 1.0E-8				
Link Margin	Up to 30dB				
MER	Up to 40dB				
C/N	Up to 52dB				
Echoes	×				
MER by carrier	V				
Constellation	V				
Uncorrected packets	V				
TILT	V				
Attenuation	V				

Multiple PLP	v				
	ents QAM (Annex A/B/C)				
Modulations	4QAM, 16QAM, 32QAM, 64QAM and 256QAM				
Power	20 - 128dBµV				
BER	1.2E-3 - 1.0E-8				
MER	Up to 40dB				
C/N	Up to 52dB				
Constellation					
Uncorrected	•				
packets					
TILT	\checkmark				
Attenuation	\checkmark				
Digital measurem	ents ISDB-T/Tb				
Modulations	DQPSK, QPSK, 16QAM and 64QAM				
Power	-100 dBm to 20 dBm				
C/N	Up to 50 dB				
MER	Up to 40dB				
Pre-BER (by layer)	1.0E-2 – 1.0E-6				
Post-BER (by layer)	9.9E-2 - 1.0E-8				
Echoes	\checkmark				
Constellation	V				
Uncorrected	V				
TILT	V				
Attenuation	V				
Digital measurem	1 *				
Wideband (only compatible HW)	230-2300 MHz				
Power	20 - 128dBµV				
CBER	9.9E-2 - 1.0E-6				
VBER	1.0E-4 - 1.0E-8				
MER	Up to 20dB				
C/N	Up to 30dB				
Constellation	V				
Uncorrected packets	V				
TILT	\checkmark				
Attenuation	V				
Digital measurem	ents DVB-S2X				
Wideband (only compatible HW)	230-2300 MHz				
Modulations	QPSK, 8PSK				
	20 - 128dBµV				
Power					
Power Link Margin	Up to 10dB				
Link Margin	Up to 10dB				
Link Margin MER	Up to 10dB Up to 20dB				

Specifications are subject to change without notice.

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Constellation V Uncorrectedpackets V TILT V Attenuation V Multi TS V	
Attenuation	1
Multi TS	,
	,
PLS scrambling	,
Digital measurement	s DVB-S2
Wideband (only compatible HW) 230)-2300 MHz
Modulations QP	SK, 8PSK, 8APSK, 16 APSK & 32 APSK
Power 20	- 128dBµV
Link Margin Up	to 10dB
MER Up	to 20dB
C/N Up	to 30dB
LDPCBER 9.9	E-2 - 1.0E-6
BCHBER 9.9	E-2 - 1.0E-8
Constellation	,
Uncorrectedpackets 🗸	,
TILT	,
Attenuation	,
Multi TS	
FM Measurements	
Level	,
	to 52dB
RDS	,
DAB/DAB+ Measuren	nents (Ontion 596204)
	20 - 128 dBµV
	to 20 dB
	to 30 dB
	E-2 – 1.0E-6
Analog Measurement	
	- 128dBµV
	to 52dB
	to 30dB
	10 3000
Features	
Up to 6 widgets user-customizable	,
System Scan with measurementsand learning plan	,
LTE check (4G/5G)	,
FO (-40, 7 dBm) 0pt	tion 596101
FO Selective (-40, 7 dBm) 0pt	tion 596111
GPS Drive Test Opt	tion 596201
MPEG2, MPEG4 Full HD Channels visualization	
4K visualization 0pt	tion 596205

Info MPEG	SID, VID, AID, Resolution, Profile , Audio Bitrate, Video Bitrate, Resolution info		
IPTV Analyzer	\checkmark		
Wifi Analyser	2,4 GHz and 5 GHz (Option 596202)		
Units	dBμV, dBmV, dBm		
Network Tools	\checkmark		
Preamp powering			
Preamppowering	5,13, 18, 24Vdc and other (any value between 5 and 24V)		
Maximum supplied power	12 W		
Maximum supplied current	900 mA		
LNB Tone	22 KHz		
DiSEqC	\checkmark		
SCR dCSS (EN50494 EN50607)	v		

Description of equipment components

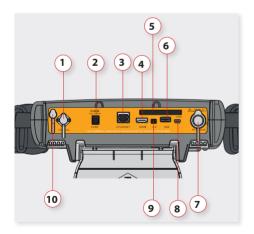
Connectors and controls



1. Touch screen 8"

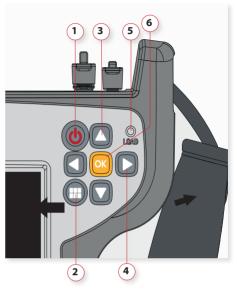
2. Connectors

- 3. Keyboard and LED indicators
- 4. Battery (on the back)



1. F.O.	5. CAM	8. USB
2. Power connector	6. USB	9. A/V
3. ETHERNET	7. RF Input	10. GPS
4. HDMI		

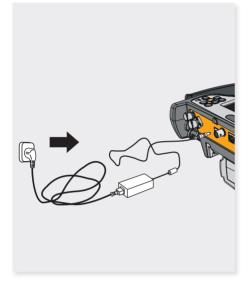
Keyboard



- 1. Device ON/OFF button: To turn the equipment off, press and hold for approximately 3 seconds. Short press to lock/unlock the screen.
- 2. Menu button: First press-features menu is shown. Second press-context menu is shown. Third press-all menus are hidden.
- 3. Up/Down buttons: Changes channel.
- Left/Right buttons: Changes screen in multiscreen features.
- **5. Powering LED**: Indicates if the equipment is powering an external load.
- **6. OK button**: Short press to accept an option, and press and hold for more than 10 seconds to reset the device.

Power supply

A DC adapter is provided to power and charge the meter. Plug the adapter into a properly grounded electrical supply and the power connector on the side of the unit.



When external power is supplied, the battery management system automatically controls the charging process.

A battery icon indicates the charge status of the battery.

When the battery is fully charged, the battery icon is completely filled. As the battery discharges, the amount the icon is filled decreases in steps.

From a fully discharged state, a full charge takes approximately between 3 and 4 hours. And a 1 hour charge will provide battery for around two working hours.

The charge management system will detect various conditions preventing charging, such as a battery that is over a safe temperature.

About the battery

Important:

If the equipment is going to be stored for a while, it is recommended to take the battery off and store them both separately.

To maximize battery life:

- Allow fully discharging the battery.
- The battery can be charged correctly attached to de device and using the supplied DC adapter. Or separately using the DC adapter supplied with the MOSAIQ6.
- ▶ For long term storage, take the battery pack off, and keep the device and the battery pack separately at room temperature, or about 25° C. Start with a charged battery and re-charge the battery every 2 to 3 months.

Battery replacement:

It is recommended to use only the battery packs supplied by the manufacturer to replace the battery, following these instructions:

Disconnect the meter from the power supply:



Turn the MOSAIQ6 off:



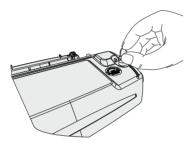
▶ The battery pack is placed in the botton-back side



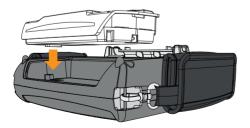
Separately battery charge

The battery can be charged separately from the meter using the DC adaptor supplied with the MOSAIQ6. Plug the adapter into a properly grounded electrical supply and the power connector on the side of the unit.

► Lift the fixings washers and rotate them 90°. You'll notice that the fixings get out automatically allowing to remove the battery pack



> Put the new battery pack and rotate the fixings washers again until the fixings fit into the device



► Turn you MOSAIQ6 on

Important: never remove the battery as long as your meter is on

The flashing light indicates that the battery is being charged.

If the battery charge is less than 30% the light is red.

If the battery charge is between 30% and 60% the light is yellow.

If the battery charge is greater than 60% the light is green.

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Gestures

MOSAIQ6 has an innovative interface, exclusively designed to get the most out of its 8" multi-touch display.

To do this, MOSAIQ6 uses some gestural commands that are explained below:



Tap: one fast touch with one finger.



Double tap: two fast consecutive touches with one finger.



Swipe: short swipe with one finger.



Drag: drag with one finger.

Pinch/Spread: pinch/spread two fingers on the screen.



Drag and drop.

Before starting

The first time you turn you MOSAIQ6 on, please follow the next steps for a proper registration. To do that, you must be registered on the Televes website (www.televes.com).

In addition, you need internet connection (Ethernet or Wi-Fi). Then, please follow the next steps that will be shown on the screen :

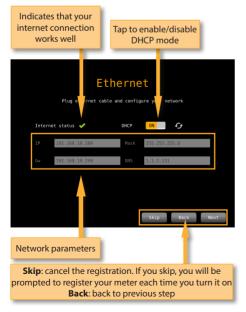
1.- Choose the language



2.- Select the internet connection (Ethernet or Wi-Fi):



3.1- If you select Ethernet, all the parameters will appear on the screen: you can enable DHCP mode (the meter will select all the parameters automatically), or disable it (then you must enter all the network parameters)

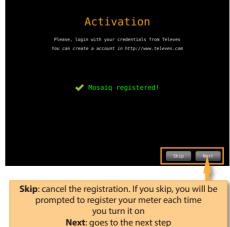


3.2.- If you select Wi-Fi, a list with all the Wi-Fi networks will appear on the screen. You must select one of them to access the internet.

4.- When your MOSAIQ6 is connected to the internet, you have to enter you Televes account data (e-mail and password).

Enter your Televes account data
Activat. on Please, login with your creder alls from Televes
You can create a account in ht //www.televes.com
Login userxx@gmail.com
Password eccese
Skip Back Next
Skip: cancel the registration. If you skip, you will be prompted to register your meter each time you turn it on
Back: back to previous step
Next: goes to the next step

5.- Your MOSAIQ6 is registered!:



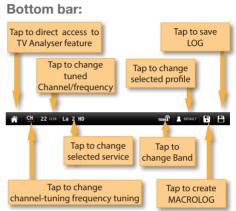
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6.- The last step is to enter an alias for your MOSAIQ6, this name will be saved in our database:



Icons on the screen

There are always two bars on the screen : one on the top and one on the bottom. The icons in them will be explained bellow.



•Direct access to TV Analyser feature: see section 6.-TV Analyser.

•Change channel/frequency: allows you to select another channel (if it is selected channel tuning model) from the channel plan corresponding to the selected user profile, or another frequency (if it is selected frequency tuning mode). See section 2.- User profiles.

If it is selected the channel tuning mode, a pop-up window will show all the channels of the channel plan of the user profile (if you haven't do a sccan -see section *6.1.- Scan-*) or a list with the channels found after having made a scan and saved the plan. In the top right side of the channel list, you can see a pencil icon, if you tan on it you can edit the channel list of channels (add or remove channels).

•Change selected service: it allows the user to select any other service locked previously. This feature shows a pop up window with all the services that the user has selected previously in any channel.



from the list

MOSAIQ6 will tune the new channel and select the service automatically

•Change band: see section 2.- User profiles

•Change profile: changes the user profile. See section 2.- User profiles

•MacroLOG: allows you to schedule repetitive measures in time intervals selected by the user. See section *9.-LOGs*

•LOG: saves the measurements and the screenshot at that moment. See section 9.-LOGs

•Conection to the network: indicated that the meter is connected to the network by Ethernet. See section Settings-Network *in Top Muenu*

•Wi-Fi: indicates that the meter is connected to a Wi-Fi network. See section *Settings-Wi-Fi* in *Top Menu*

•GPS: indicates that the GPS is active. While the satellite data is not received, the icon blinks. See section *Settings-GPS* in *Top menu*. To perform a Drive-Test the GPS must be active, and then schedule a MacroLOG (see icons in the Bottom bar). The results of the Drive Test are shown in the web application. See section *1.- Measurements* in *Web application*.

•LNB and DiSEqC information: shows information about the LNB band (only if real frequency is selected -see section 1.2.- Measurements of the menu 1.- Settings-), as well as about DiSEqC if it is active. See section 2.- User profiles

•Quality profile: indicates the selected quality profile. To select another quality profile, access the *options context menu* of the feature. See section *Options context menu* in *Menus*. To add new quality profiles see section 5.- Quality profiles in Web application.

•Enabled input: See section *Inputs/Outputs* in *Top menu*.

•Time: see section *Regional* in the feature 1.-Settings

Menus

The MOSAIQ6 has 3 different menus. These menus will be explained in this section briefly, as well as their locations. All their features will be explained in the sections below.

Top Menu



To access this menu you must do a short swipe in the top central part of the screen.

The features of this menu allows us to set up certain aspects of the meter in a fast way and from any feature.

Main Menu



To access this menu you must do a short swipe in the right central part of the screen.

The main menu is wheel with all the features of the meter.

Doing long swipe on the wheel, the user can access every features. To select a feature, you must tap on the corresponding icon.

Options context menu



Most of the features of the main menu have a menu with some options that pertain exclusively to that feature. These options are in a context menu that appears when the user does short swipe in the left central part of the screen.

Top menu

This menu has several tabs that will be explained below. To select one of them, the user must tap on the title.

Inputs/Outputs:

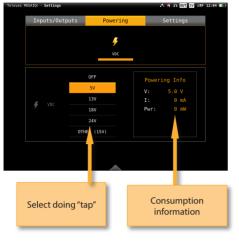
Doing tap on the connector draw, the corresponding input/output will be enabled/ disabled. Once it is enabled, the user must set some options depending on the kind of input.



Powering:

Allows setup the preamplifiers powering.



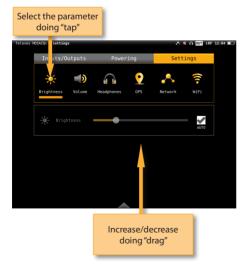


Select parameter doing "tap"

Settings:

The user can set the following parameter from this menu:

•**Brightness**: increase/decrease the display brightness



•Touch: increases/decreases the touch control sensitivity



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•Headphones: enables/disables audio A/V output



•GPS: Enables/disables the GPS feature. When it is enabled, the corresponding icon appears on the top bar of the screen. While the MOSAIQ6 does not receive the satellite signal, the GPS icon will blink.

Select the parameter doing "tap"

•Network: Allows to set up the equipment network connection. If the user selects the DHCP

mode (DHCP ON), the network parameters will be configures automatically. If the DHCP mode is off, the user must type all the network parameters (IP, Gateway, Mask and DNS), and the do tap in "Apply".



•Wi-Fi: enables/disables the equipment Wi-Fi connection.



Main menu

All the MOSAIQ6 features are contained in this menu, and they will be explained in the following sections.



Allows to set up those parameter that are commons to all the measurements: units, frequency (if real frequency is nos checked, the meter will use IF) and LNB.



Allows set all the global parameters of the meter. This feature has several tabs that will be explained below:

1.1.- Regional

Sets the language, the date and the time.





1.3.- Energy

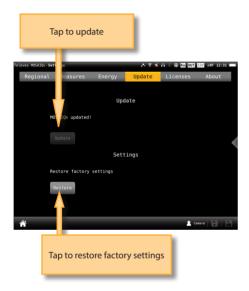
Allows set the energy-saving modes. Select the downtime until equipment auto suspension, and the downtime until auto shutdown.



1.4.- Update

When the MOSAIQ6 is connected to the internet (via Ethernet or Wi-Fi) it is automatically detected if a new firmware version is available. If so, tap on the Update button and your MOSAIQ6 will be automatically updated.

Be aware that the meter must be connected to the external powering to be updated.



1.6.- About

Shows all the information about your equipment, both hardware and software.

Tele	ves MOSAIQ <mark>s</mark> - Sett	ings			∿ ∩ OUT 1RF 12:06 0	
	Regional	Measures	Energy	Update	About	
	н	ardware		Softwar		
	Model	MOSAIQ6	Vs		0.91.07017	
	Serial	08172268100008	GUI		0.91.07017	
	Control	172000700133	Measu	ires	0.91.07017	
	Peripherals		Fpga		0.00.00016	
r -		171906800811	CAM		0.09	
	Optical		RF		0.17	
	Keyboard	171704000211	Optic			
	Battery		Power	ing	0.99.00020	
			Batte	ery	1.61.86089	
			Web		0.90.00008	
Â	(CH) 22 ccr	4		TERRI	e default 🖪 📔	ł

1.5.- Licenses

Shows a list with all the licenses of your MOSAIQ6.

Televes MOSAIQ6-Settings			.∧ † ⊀	∩ ◊ 0 km mm	3V 4RF 12:30 💻
Regional	Measures	Energy	Update	Licenses	About
Reference	Description				State
596204	DAB/DAB+		29/06/2018		×
596201	GPS Test D	ive	29/06/2018		×
596202	WiFi 5GHz		29/06/2018		×
596203	Medidas An	lógicas	29/06/2018		× /
596205	4K UHD		29/06/2018		-
~	_	_	_		
				💄 Car	ara D



Your **MOSAIQ6** allows to define as many user profiles as you need. For each user profile, you must indicate what band(s) is going to measure that user profile and the main parameters.

If you select terrestrial band for a profile, you must select the channel plan, the preamplifiers powering and the norm.

If you select satellite band for a profile, you must select the channel plan, polarity, powering, SCR and DiSEqC.

If you select the radio band, you must select the DAB channel plan.



2.1.- Set

Goes to the setting feature of the main menu (see section 1.- Settings)

2.2.- Add

Adds a new user profile. When you tap on this button, a popup window will open where the user must set all the required parameters.

First of all, you must type the profile's name. Then

you must select the bands you want to include in that profile and set up the parameters.

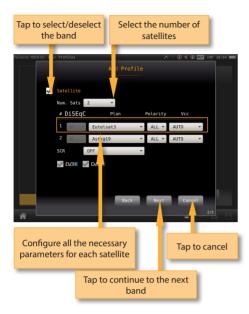
To select a band, you must select the corresponding check box. The first step is the terrestrial band, then tap on "Next" button pass to the satellite band, and finally the radio band.

Once you have finished the radio band configuration, tap on "add" button to save the user profile.



If you include the satellite band in the profile, you must select how many satellites you want to include in that profile. Then you must set all the parameters for each one.

Each satellite plan is automatically associated with a DiSEqC command (fisrt plan with SAT A, second pland wit SAT B, and so on). So, the powering is always ON and automatically set to AUTO, but the user can select any other value. 21



2.3.- Edit

Allows changes in the selected profile of the list. The process is similar to add a new profile.

2.4.- Delete

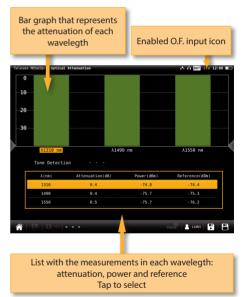
Deletes the selected profile from the list.



3. Optical attenuation

This feature allows to measure the optical attenuation in the fibre network in three wavelengths: 1310nm, 1490nm and 1550nm. When the user selects this features, the optical fibre input is automatically enabled.

3.1.- Main window:



3.2.- Options context menu:



•Calibrate: select the wavelength (tap on the graphic or on the list) and tap on this button to calibrate it.

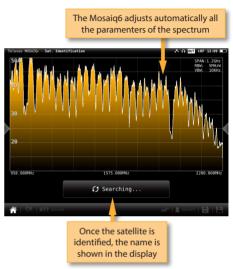
•Units: mW/µW, dBm.



4. Satellite identification

This feature is able to detect automatically the satellite the input signal belongs to.

4.1.- Main window



4.2.- Options context menu



Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it

possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions . This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored

SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

•Aim antenna:

Emits a modular audible signal with frequency directly proportional to signal level in the spectrum trace relative to reference level. It is recommended to set the reference level manually, as well as to select the span to include a frequency range wide enough. The audible signal becomes continuous when the signal level is close to the reference level. Then it is necessary to increase the reference level to get a more accurate adjustment. This is a useful feature to point antennas without having to look at the display



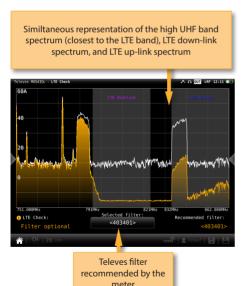
5. LTE check

The presence of signals in 4G and 5G bands in distribution systems DTT, can affect the quality of the TV signal.

This function makes an analisys of the 4G and 5G signals and its influence on digital terrestrial television signal (UHF band), and it also estimates the need to insert a filter at the input of a Digital Terrestrial Television (DTT) system, in order to minimize interferences that may cause the signal on the DTT signal.

When you select this function, only the 4G Downlink and the 4G Uplink bands are analysed. You must display the Options Context Menu to analyse the 5G band.

5.1.- Main window



If it is necessary to insert a filter, is indicated on the screen.

If it was not necessary to insert a filter, it will be displayed the text "LTE Check OK" instead of "Required LTE filter".

On the screen are displayed simultaneously: 1-The

spectrum of the high "UHF" band (closest to the LTE band); 2- The spectrum of the LTE down-link; 3- And the spectrum of the LTE up-link.

In addition to the recommended filter, you can select various filters Televés LTE and display the simulation of how the system would respond with a LTE filter inserted on its input (orange graphic). Use the rotary selector to choice each one of the available filters.

The selected filter is displayed in the bottom center of the screen, there is also the option of not selecting a filter.



5.2.- Options context menu

•4G+5G: ON/OFF. When ON is selected, the function analyses the 4G up and down links, as well as the 5G up and down links, detecting possible interfering signals and, if it is necessary it recommends a filter.

Powering:

VDC: Selects the preamplifier powering.



This is the main function of the **MOSAIQ6**. The user can reach this function by tapping the icon **A**.

Thanks to this feature it is possible to have in one screen all the information of the tuned signal. The feature TV Analyser has 3 screens: Scan, Mosaig

3+1 & Mosaiq 6. To switch between screens do long swipe.



Bellow there is a detailed explanation of each of these screens:

6.1.- Scan

This function scans the selected channel plan and detects every existing analog and digital channel in real time to determine the overall frequency response of the system.

The scan measurement leverages the location based thresholds to clearly show whether or not signal levels comply with the cable system's specifications with their green, yellow and red bars.

Bar graph representing all Banda the found channels Tap to select Pwr (dBuV C/N(dB VA/MER(d) CBER D/3T 482,000 29.8 3.6E-3 498 888 D/3T 0 48 7 26 5 23.8 498,880 D/3T2 @ 63.7 2 35.9 P Tap to access to Signal spectrum the options menu List with channels and measurements

Tapping on the icon **a** popup window will appear showing the following functions:



6.1.1.- Main window



Start: Starts a new system scan

•Options:

- Fast: ON/OFF. When the fast scan is enabled (ON), the meter will not make CBER and VBER measurements for digital channels, neither V/A measurements for analog channels. So, only power and level measurements will be shown.
- Wide outlet: ON/OFF. Enable this option when the outlet in your installation has both terrestrial and satellite bands. So, both bands will be scanned consecutively. If this options is disabled, only the selected band will be scanned.

Note: Note that if the selected user profile does not allow to make measurements in some bands, the scan will not be done in that band.

•Edit: Allows to add/delete channels from the plan. If the channel is selected (orange coloured), when you tap on it, it will be deselected. Otherwise, if the channel is unselected (grey coloured), when you tap on it, it will be selected.

•Save: Saves a new plan with the found channels.

•Cancel: Closes the options window.



6.1.2.- Options context menu

•Fast: ON/OFF. When the fast scan is enabled (ON), the meter will not make CBER and VBER measurements for digital channels, neither V/A measurements for analog channels. So, only power and level measurements will be shown. •Wide outlet: ON/OFF. Enable this option when the outlet in your installation has both terrestrial and satellite bands. So, both bands will be scanned consecutively. If this options is disabled, only the selected band will be scanned.

Note: Note that if the selected user profile does not allow to make measurements in some bands, the scan will not be done in that band.

•Show all: ON/OFF. When show all is ON, all the measurements of all the channels are shown. When it is OFF, you can only see the measurements of the channel that is being measured in that moment.

•Span full: ON/OFF. When Span full ins ON you can see all the bars corresponding to all the found channels. When this option is OFF, only 24 bars are shown, so it is necessary to scroll to see them all.

•Tilt: ON/OFF. When the tilt option is ON, this function measures the tilt between the channels indicated in the labels CH A and CH B. Then you can see a white line between these two channels and the tilt measurement on it.

•Attenuation: ON/OFF. When the attenuation option is ON, the MOSAIQ6 measures the attenuation of the installation relative to a reference point, usually the head-end output. So, the first thing you must do is connect the meter to the reference point and tap on the Calibrate button. In this way, the equipment will measure and save the level of all the channels.

Then you must go to all the pints of the installation where we want to measure and connect the meter, taking care to have this function ON. The MOSAIQ6 will measure the levels of all the channels comparing them with the reference ones.

When this option is ON, the bars of the graphic don't represent the level or the power of the channels, but the attenuation of each one of them. The list shows power (or level) and C/N. In addition, a green trace is shown in the spectrum. This trace indicates the levels in the reference point.

•Quality profile: allows to select the quality profile . •Powering:

- VDC: Selects the preamplifier powering.

- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions. This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored

SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

6.2.- Mosaiq 3+1

This screen has 4 widgets, 3 in the top of the screen and one in the lower part of the screen. Theses widgets ares user-configurable, that is, the user can select the the function he or she wants to visualize in each widget.

6.2.1.- Main window



All the available features are explained in section 6.4.-Features.

6.2.2.- Options context menu:



•Quality profile: allows to select the quality profile

Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This

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function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions . This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored.

SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

6.3.- Mosaiq 6

This screen has 6 widgets. Theses widgets ares user-configurable, that is, the user can select the function he or she wants to visualize in each widget.

6.3.1.- Main window



All the available features are explained in section *6.4.- Features*.

6.3.2.- Options context menu



•Quality profile: allows to select the quality profile

Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).

 Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions . This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored

SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

6.4.- Features

This section explains all the features available to visualize in the widgets of the Mosaiq 3+1 and Mosaiq 6 modes.

Note: If the ASI input is selected, only Television and Services features will be available.

6.4.1.- Television

This feature allows to visualize the selected service 's image of the tuned channel.

Note: When the image is not available, one of these icons will be shown:

- •Encrypted channel
- •Data service 🗎

6.4.1.1.- Main window



see all the information about it



Tapping on the screen, it appears a popup window with the list of the channel's services:



Next to the name of the service, the icons indicating the transports are shown (image, one or more audio transports). To change the audio, tap again on the screen and select the same service in the list, then a new pop-up window will appear showind the available audios.

Tapping on the service's name, it appears a popup window with the information about it:



6.4.1.2.- Options context menu



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•Quality profile: allows to select the quality profile •Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

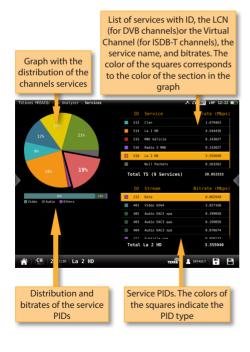
Store: 8 storage positions are available to store at up to 8 antenna positions. This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

6.4.2.- Services

This features shows a graph with the distribution of the services os the channel. Tapping on one of the sections of the graph, you can see the name of the corresponding service.

If you see this feature in full screen, you will have more detailed information.



6.4.2.1.- Main window

6.4.2.2.- Options context menu



•Quality profile: allows to select the quality profile •Powering:

- owening.
- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions. This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored. SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

6.4.3.- Measurements

This feature shows the measurements of the selected channel. The measurements depends on the signal modulation: DVB-S: Power, C/N, MER, CBER, VBER DVB-S2: Power, C/N, MER, LDPCBER, BCHBER DVB-T: Power, C/N, MER, CBER, VBER DVB-T2: Power, C/N, Link Margin, LDPCBER, BCHBER DVB-C: Power, C/N, CBER, MER Analog: Level, C/N, V/A, HUM, CTB, CSO

If you see this feature in full screen, you will have more detailed information.



6.4.3.1.- Main window

History of the measurements during an interval selected by the user. Drag to move the blue mark

6.4.3.2.- Options context menu



•Clear: restarts the graph.

•Last: 5 min, ½ hour, ½ day, 1 day, 1 week. Allows select the time interval shown in the graph

•Quality profile: allows to select the quality profile

Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions . This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored

- SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).
- CTB (only analog channels): Turns ON/OFF the CTB measuremnt. If you select CTB ON, a popup window will be displayed asking you to turn the signal off. CTB can only be made with the service disabled, because it is a measurement made in the frequency of the video carrier of the TV signal. Turn the signal ON again to measure CTB and all other measurements properly.
- CSO Offsets (only analog channels): The CSO measure is carried out in different frequencies (at different distances from the video carrier) within the selected channel. Using this menu you can select the offset where you want to measure the CSO, and you can save up to 6 offset values, that can be the default values or user-selected ones.

6.4.4.- Spectrum

This feature shows the spectrum of the signal.

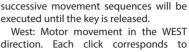
6.4.4.1.-Main window



If you tap to enable marks:



Televes



direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

one step in the movement of the motor (pitch motors). By holding the key down,

Store: 8 storage positions are available to store at up to 8 antenna positions. This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored

SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210/MHz), the meter will tune into the slot frequency (1210/MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

6.4.4.2.- Options context menu



•Span: 100KHz, 1MHz, 5MHz, 10 MHz, 20 MHz, 50 MHz, 100 MHz, 200 MHz, 500 MHz, 1.0GHz, 2.0GHz, 3.3GHz, Other.

Reference level: Auto, 50dBµV – 130dBµV

- •RBW: 500 HzW 5MHzW
- •VBW: 100Hz 1MHz

•Advanced: Access to spectrum advanced features:

- Hold: enables/disables max. hold & min. hold features. Tapping on Clear button to restart hold trace.
- Trigger: enables/disables the trigger by level feature. To select the level, tap on the label and a popup keyboard appears.
- Fill: enables/disables the spectrum graph filled.

•Quality profile: allows to select the quality profile

- •Powering:
 - VDC: Selects the preamplifier powering.
 - DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
 - Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

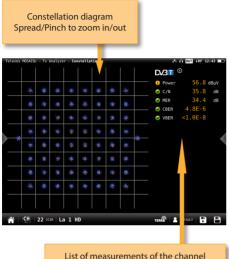
Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to

6.4.5.- Constellation

This feature shows the constellation diagram of the tuned channel.

6.4.5.1.- Main window



Tap on i to see the parameters of the signal

6.4.1.2.- Options context menu



•Grid: ON/OFF. Shows/hide the grid.

•Carrier (only DVB-T/T2): All, TPS+continual (only

DVB-T), Other. Allows you to select the constelation of the selected carrier(s).

•Quality profile: allows to select the quality profile

Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions. This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored -SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

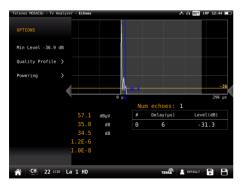
6.4.6.- Echoes

This feature you allows to visualize the echoes of the received signal, helping the installer to minimize them as much as possible for optimal signal reception.



6.4.6.1.- Main window

6.4.6.2.- Options context menu:



•Min. Level: allows to indicate the level from which the meter must take account of the echoes. You can also change this level by dragging the horizontal orange level.

•Zoom: OFF, 2x, 4x, 8x, 16x. You can also Spread/ pinch on the screen.

•Units: us, Km.

•Quality profile: allows to select the quality profile

•Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions. This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored

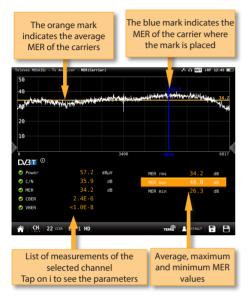
SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

6.4.7.- MER/carrier

This feature represents MER value for each carrier of the DVB-T signal. This is pretty useful to detect

if there is any interference inside the channel that makes the quality signal to get worse and that is invisible for a traditional spectral analysis.

6.4.7.1.- Main window



•MER RMS: Average MER of the DVB-T signal.

•MER max: Maximum MER value of the DVB-T signal. In parentheses the number of carrier with this maximum valuer of MER. If you tap on this measurement, the blue mark will move to the carrier with the maximum MER, and will be moving searching the carrier with maximum MER each time.

•MER min: Minimum MER value of the DVB-T signal. In parentheses the number of carrier with this minimum valuer of MER. If you tap on this measurement, the blue mark will move to the carrier with the minimum MER, and will be moving searching the carrier with minimum MER each time.

6.4.7.2.- Options context menu



•Carrier: allows you to select the carrier where you want to measure the MER, placing the blue marker on the graph.

·Quality profile: allows to select the quality profile

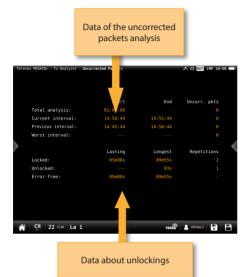
Powering:

- VDC: Selects the preamplifier powering.

6.4.8.- Uncorrected packets

This feature makes an uncorrected packet analysis during a timer interval selected by the user.

6.4.8.1.- Main window



Total analysis: Start and end time of the analysis, and number of uncorrected packets in all the intervals analysed.

Current interval: Start and end time of the current interval, and number of uncorrected packets.

Previous interval: Start and end time of the previous interval and number of uncorrected packets.

Worst interval: Start and end time of the interval with more uncorrected packets, and number of uncorrected packets in the worst interval of analysis since it was started.

Locked: Time gone by since the demodulator locked to the digital signal the last time, longest time the digital signal was locked, and number of locking.

Unlocked: Time gone by since the demodulator unlocked to the digital signal the last time, longest time the digital signal was unlocked, and number of unlocking.

Error-free: Time gone by since last uncorrected packet, and longest time gone by since last uncorrected packet.

6.4.8.2.- Options context menu:

Televes MOSAIQ6 - Tv Anal	zer - Uncorrected Packets		▲ 🙃 OUT 1RF 14	50 🔲
OPTIONS				
OPTIONS				
Restart	Start	End	Uncorr. pkts	
Interval 5 min 👻				
Powering >				
	4			h
	Lasting	Longest	Repetitions	
	05m15s	09m55s		
	05m15s	09m55s		
	La 1	TERRA	🔒 DEFAULT 📳	8

Restart: restart the uncorrected packets analysis

•Interval: Change the analysis interval time. The interval is configurable between 1 minute and 1 hour.

•Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas.
 This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions. This command allows one of 8 positions to be chosen where the current position of the antenna will be stored. Goto: recovers one of the 8 positions for the antenna that has been previously stored

 SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters: frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).



7. Spectrum analyser

These feature has two screens: spectrum analyser and waterfall. Long swipe to switch between them.

7.1.- Spectrum analyser

This feature shows the spectrum of the input signal.

7.1.1.- Main window





If you tap to enable the marks:



7.1.2.- Options context menu



•Span: 100KHz, 1MHz, 5MHz, 10 MHz, 20 MHz, 50 MHz, 100 MHz, 200 MHz, 500 MHz, 1.0GHz, 2.0GHz, 3.3GHz, Other.

•Reference level: Auto, 50dBµV – 130dBµV

•RBW: 500 HzW – 5MHzW

•VBW: 100Hz - 1MHz

- •Advanced: Access to spectrum advanced features:
 - Hold: enables/disables max. hold & min. hold features. Tapping on Clear button to restart hold trace.
 - Trigger: enables/disables the trigger by level feature. To select the level, tap on the label and a popup keyboard appears.
 - Fill: enables/disables the spectrum graph filled.

•Quality profile: allows to select the quality profile

•Powering:

- VDC: Selects the preamplifier powering.
- DiSEqC (only satellite band): selects the DiSEqC parameter (Sat A, Sat B, Sat C, Sat D).
- Positioner (only satellite band): makes it possible to control the DiSEqC motors used to move mobile parabolic antennas. This function is available in satellite mode and when the equipment is powering the LNB.

Halt: This command stops the motor movement.

East: Allows to move the motor in the EAST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

West: Motor movement in the WEST direction. Each click corresponds to one step in the movement of the motor (pitch motors). By holding the key down, successive movement sequences will be executed until the key is released.

Store: 8 storage positions are available to store at up to 8 antenna positions . This command allows one of 8 positions to be chosen where the current position of the antenna will be stored.

Goto: recovers one of the 8 positions for the antenna that has been previously stored

SCR (only satellite band): Selects the SCR parameters (multiswitch, standard and slots) When a slot is enabled (for example slot 3, freq. 1210MHz), the meter will tune into the slot frequency (1210MHz) and will set the slot with the meter parameters:

frequency, band (powering), and DiSEqC. In addition, a SCR icon will be shown in the bar at the top (SCR3) to indicate that the slot is enabled. While the slot is enabled, all the setting changes of the meter, will be applied to the currently slot (SCR3).

7.2.- Waterfall

The waterfall diagram is a three-dimensional representation of the signal spectrum. Signal levels are converted to colours and displayed along a time axis.

7.2.1.- Main window



Every spectrum trace in the top half generates a new waterfall line in the bottom half.

7.2.2.- Options context menu:



•Clear: It clears the waterfall display.

•Reference: it changes the level of the highest colour in the colour scale. Signal levels above this reference will be displayed in this colour.

•Range: it changes difference in dB between the highest and the lowest colour of the colour scale on the waterfall display.

•Colours: it changes the colour palette. Different colour combinations can be selected for the waterfall representation (Jet, Hot and BlueHot).

•Frame beep: when this option is ON, a beep sounds each time the waterfall screen fully refreshes, so there is no need to look at the screen continuously. Looking at the screen just when the beep sounds guarantees not missing any waterfall information.

•Spectrum: accesses to the spectrum options context menu (see section 7.1.- Spectrum analyser).



8. Radio Analyser

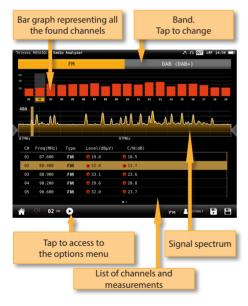
This feature is similar to TV Analysis in the radio band. So it has two screens: scan and mosaiq 3+1. Long swipe to switch between them.

8.1.- Scan Radio

This features scans the FM and DAB band.

The scan measurement leverages the location based thresholds to clearly show whether or not signal levels comply with the cable system's specifications with their green, yellow and red bar.

8.3.1.- Main window



Tapping on icon **D** a popup window will appear:

Selected channel



•Start: Starts a new system scan

•Options:

- Fast: ON/OFF. When the fast scan is enabled (ON), the meter will not make CBER and MER measurements for DAB channels. So, only power and C/N measurements will be shown.
- Wide outlet: ON/OFF. Enable this option when the outlet in your installation has both terrestrial and satellite bands. So, both bands will be scanned consecutively. If this options is disabled, only the selected band will be scanned.

Note: Note that if the selected user profile does not allow to make measurements in some bands, the scan will not be done in that band.

•Edit: Allows to add/delete channels from the plan. If the channel is selected (orange coloured), when you tap on it, it will be deselected. Otherwise, if the channel is unselected (grey coloured), when you tap on it, it will be selected.

•Save: Saves a new plan with the found channels.

Cancel: Closes the options window

0 000 LBE Fast Show All ۸A Full Span 🚺 OF Level(dBuV) C/N(dB) Attenuation 32.0 Quality Profile > 0 27 9 erina 09 m 🕞 R P DEFAULT

8.3.2.- Options context menu

•Fast: ON/OFF. When the fast scan is enabled (ON), the meter will not make CBER and MER measurements for DAB channels. So, only power and C/N measurements will be shown.

•Wide outlet: ON/OFF. Enable this option when the outlet in your installation has both terrestrial and satellite bands. So, both bands will be scanned consecutively. If this options is disabled, only the selected band will be scanned.

Note: Note that if the selected user profile does not allow to make measurements in some bands, the scan will not be done in that band.

•Show all: ON/OFF. When show all is ON, all the measurements of all the channels are shown. When it is OFF, you can only see the measurements of the channel that is being measured in that moment.

•Span full: ON/OFF. When Span full ins ON you can see all the bars corresponding to all the found channels. When this option is OFF, only 24 bars are shown, so it is necessary to scroll to see them all.

•Tilt: ON/OFF. When the tilt option is ON, this function measures the tilt between the channels indicated in the labels CH A and CH B. Then you can see a white line between these two channels and the tilt measurement on it.

•Attenuation: ON/OFF. When the attenuation option is ON, the MOSAIQ6 measures the

attenuation of the installation relative to a reference point, usually the head-end output. So, the first thing you must do is connect the meter to the reference point and tap on the Calibrate button. In this way, the equipment will measure and save the level of all the channels

Then you must go to all the pints of the installation where we want to measure and connect the meter, taking care to have this function ON. The MOSAIO6 will measure the levels of all the channels comparing them with the reference ones.

When this option is ON, the bars of the graphic don't represent the level or the power of the channels, but the attenuation of each one of them. The list shows power (or level) and C/N. In addition, a green trace is shown in the spectrum. This trace indicates the levels in the reference point.

•Quality profile: allows to select the quality profile .

Powering:

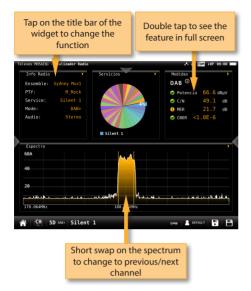
VDC: Selects the preamplifier powering.

8.2.- Mosaig 3+1

This screen has 4 widgets, 3 in the top of the screen and one in the lower part of the screen. Theses widgets ares user-configurable, that is, the user can select the function he or she wants to visualize in each widget.



8.2.1.- Main Window



The available features are explained in section 8.3.-Radio features.

8.2.2.- Options context menu



•Quality profile: allows to select the quality profile .

•Powering:

- VDC: Selects the preamplifier powering.

8.3.- Radio features

This section explains all the features available to visualize in the widgets of the Mosaiq 3+1 mode.

8.3.1.- Info radio

This feature shows the information of the tuned channel.

If it is a FM channel, the information shown is: RDS, PS name, PTY, PI, TP & radio text.

If it is a DAB channel, the information shown is: Ensemble, PTY, Service, Mode, Audio.

8.3.1.1.- Main Window

Televes MOSATQ: - Radio Analyzer - Radio Info	A A OUT 1RF 15:28 📼
RDS :	Lock
PS name:	CAD- 0
PTY:	Pop_M
PI:	0xe2ce
TP:	ON
Radiotext:	•
🗥 (^{CH}) 03 m	FM 💄 DEFAULT 🗜 💾

8.3.1.2.- Options context menu

Televes MOSAIQ: - Radio Analyzer - Radio Info	A A OUT 1RF 15:28 📼
Quality Profile >	
Powering >	
√ t:	
🕋 (CH) 03 m	FM 💄 DEFAULT 📑 💾

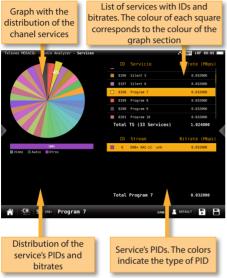
•Quality profile: allows to select the quality profile . •Powering:

- VDC: Selects the preamplifier powering.

8.3.2.- Services (only for DAB channels)

This feature shows a graph representing the services distribution. Tapping on a section, you can see the name of the corresponding service.

8.3.2.1.- Main Window

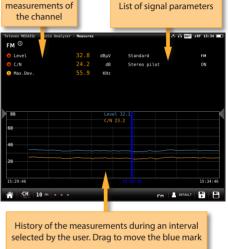


with IDs and of each square e colour of the ction 8.3.3.1.- Main window List of measurements of

channel: FM: Level, C/N

8.3.3.- Measurements

DAB: Power, C/N, BER and MER



This feature shows the measurements of the selected

channel. The measurements depends on the type of

8.3.2.2.- Options context menu

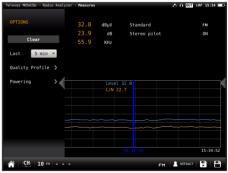


•Quality profile: allows to select the quality profile .

•Powering:

- VDC: Selects the preamplifier powering.

8.3.3.2.- Options context menu



•Clear: restarts the graph.

•Last: 5 min, 1/2 hour, 1/2 day, 1 day, 1 week. Allows

select the time interval shown in the graph •Quality profile: allows to select the quality profile •Powering:

- VDC: Selects the preamplifier powering.



9. Wi-Fi Analyser

The **MOSAIQ6** is able to perform a full analysis of the Wi-Fi band in both 2,4GHz, and 5GHz bands. To change the band selection, tap on the corresponding icon placed in the bottom bar.

When you access to this feature, the **MOSAIQ6** activates the Wi-Fi automatically and, if it has been connected to an available Wi-Fi network before, the **MOSAIQ6** has saved the password, so it will connect to the same network again automatically. The default selected Wi-Fi network is the first in the Wi-Fi list, in addition, this Wi-Fi is highlighted in the channel map of the widget in the bottom of the screen. The selected Wi-Fi does not have to match the Wi-Fi the MOSAIQ6 is connected to.

The screen corresponding to this feature is Mosaiq3+1 type. This configuration has 4 widgets, 3 square ones in the top and a rectangular in the botton. The top widgets are user-configurable.

10.1.- Main window



the channel map feature

9.2.- Features

This section explains all the features available to visualize in Wi-Fi analyser function.

9.2.1- Wi-Fi List

This feature shows a list with all the Wi-Fi networks detected by the **MOSAIQ6**.

In this list, the user can select the Wi-Fi network whose measurements he wants to view by tapping on it.

Note: to minimize this widget, the user must tap twice on the line corresponding to the selected Wi-Fi, otherwise another Wi-Fi will be selected.

The list can be ordered by SSID, BSSID, channel name, frequency, encryptation type or signal level, the user just has to tap on the header of the corresponding column.

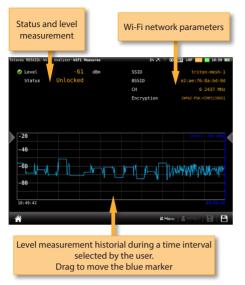
9.2.2.1.- Main window

	Tap on the colu o order the list a that para	according to			Tap on to se			i
916	wes MOSAIQs-Wif Analyzer-W	tiFi List		25 2	N T (0 OUT +R	E DB	90 10:58	
	ssi	BSSID		Freq	Encryption	L	l(dBm)	
	Gsertel-Guest	12:da:43:c3:4a:d8	6	2437	WPA2		- 61	٦
	triton-mesh-1	e2:ae:76:8a:bd:0d	6	2437	WPA2		-55	
	gsertel-radius	10:da:43:c3:4a:dd	6	2437	WPA2		- <mark>5</mark> 9	1
	GL-AR150-17a	e6:95:6e:4f:01:7a		2437	WPA2		- 60	
	Ladetel_2.4	ac:22:0b:d2:cd:a8		2432	WPA WPA2		- 60	
	GL-AR150-5b8	e6:95:6e:41:e5:b8		2437	WPA WPA2		- 61	
	NightHawk	a0:63:91:30:de:a7		2412	WPA2		- 62	
	H30EVOLUTION-051917992	3c:a3:08:b9:4c:e7		2432	WPA2		-67	
	triton_2.4G	3c:37:86:71:49:6e		2437	WPA2		-67	
	RUT240_BB7C	02:1e:42:22:bb:7c		2412	WPA2		- 61	
	RUT950_69AB	02:1e:42:22:69:ab		2437	WPA2		-72	
	V40 ThinQ SB	3a:30:f9:eb:79:22		2427	WPA2		-68	
	dd-wrt	c0:56:27:1d:9d:00		2437			-69	
	Ladetel-Guest	c0:56:27:24:c2:3a		2462			-70	
	Tradace.Guact	76 · 10 · ah · 55 · A5 · a5		7467	WPA2		-73	
1	*				2.Чана 🛔 🕬	FAULT	B	8

9.2.1- Wi-Fi measurements

This feature shows all the measurements of the Wi-Fi network selected by the user.

The default selected Wi-Fi network is the first in the Wi-Fi list. To select another Wi-Fi, you must maximize the Wi-Fi List widget (see section 10.2.1.-Wi-Fi List), or the Channel Map widget (see section 10.2.4.- Channel Map)



9.2.1.1.- Main window

9.2.3.1.- Main window



9.2.1.2.- Contextual options menu



•Clear: resets the chart.

•Last: 10 min, $\frac{1}{2}$ hour, $\frac{1}{2}$ day, 1 day, 1 week. Allows you to select the time interval shown in the chart.

9.2.3- Time graph

This feature shows a graph with the level measuremet historical of all he Wi-Fi networks detected by the **MOSAIQ6**.

9.2.3.2.- Contextual options menu



•Clear: resets the graph.

•Last: 10 min, $\frac{1}{2}$ hour, $\frac{1}{2}$ day, 1 day, 1 week. Allows select the time interval shown in the graph.

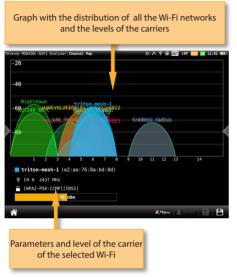
9.2.4- Channel map

This feature shows a graph with the distribution of all the Wi-Fi networks detected byt the **MOSAIQ6**.

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When this feature is maximized, the user can select a Wi-Fi using the "up" and "down" arrow buttons of the device. The selected Wi-Fi will be shown in the foreground.

10.2.4.1.- Main window





10. Network Tools

In this menu are grouped all the features that allow to check the network.

The screen corresponding to this feature is Mosaic4 type. This configuration has 4 widgets. All the widgets are user-configurable.

10.1.- Main window



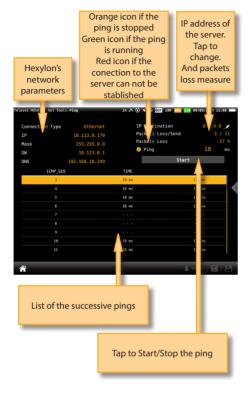
10.2.- Features

This section explains all the features available to visualize in Network Tools function.

10.2.1- Ping

This function attempts to connect to the server selected by the user. If the conection is stablished, the **MOSAIQ6** makes a successive pings to the server and shows the delay times.

10.2.1.1.- Main window



10.2.2.1.- Main window

of devices founded	an 15 🛧 4 🛞 🔟 🔐	RF DBG 179 07/05/ 3 09:46
Devices	21	Scan
	MAC	MANUFACTURER
10.113.0.1	bc:16:f5:ae:24:d6	Cisco
10.113.0.2	cc:8e:71:5c:91:c5	(Unknown)
10.113.0.13	00:0f:fe:fb:94:2b	G-PRO
10.113.0.14	00:0e:7c:42:02:ad	Televes
10.113.0.15	7c:01:61:01:7f:01	(Unknown)
10.113.0.16	18:33:15:50:00:11	(Unknown)
10.113.0.17	0c:c4:7a:7b:15:9c	Super
10.113.0.19	00:0e:7c:43:00:1b	Televes
10.113.0.26	c4:34:6b:66:43:0e 00:e0:33:aa:80:76	Hewlett
10.113.0.28	00:00:33:00:76	E.E.P.D.
10.113.0.29	20 30:ad:01:22	ASUSTek
10 113 0 34	001 170143100177	Tolouor
*		& default B E
	with IP, MAC and er of each one	

10.2.3- NMAP Scan

The NMAP (Network Mapper) Scan feature and gets information of the enabled ports and services of the device with the IP selected by the user.

10.2.2- ARP Scan

The ARP (Address Resolution Protocol) Scan feature scans the devices in the network and returns the IP, the MAC and the manufacturer of each one.

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10.2.2.1.- Main window

				Orang
Tap to edit the desti	nation IP	Tap to start the scan		te Gre S Red io
ves MOSAIQ:-Net Tools-NMAP		1RF DEC 179 07/05/2 9 09:46		
IP Destination 192.100.10.70		Scan 🔻	Televes MOSAIQ6-Net Tools-S	peed Test
PORT	STATE	SERVICE	. Marting	
22 /TCP	Open	ssh	ener.	
80 /TCP	Open	http		
111 /TCP	Open	rpcbind	İ	•
139 /TCP	Open	netbios-ssn	No. of the second se	
445 /TCP	Open	microsoft-ds	18 C	
902 /TCP	Open	iss-realsecure	117	Mbps
2849 /TCP	Open	nfs	11/	Piops
111 /UDP	Open	rpcbind	500	
123 /UDP	Open	ntp	375	
	•		313	
			250	
			125	
*		🙎 DEFAULT 🖪 🖪		
			Start	
List of ports with th the service of ea			•	

Crease notifies and the speed is ok Red icon if the speed is too low Crease notifies and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low Crease not crease and the speed is too low crease and the

10.2.4- Speed Test

This function attempts to connect to the server, checks the DHCP protocol and the connection to the Internet.

Then, the MOSAIQ6 makes a download and upload speed test.

10.2.3.1.- Main window



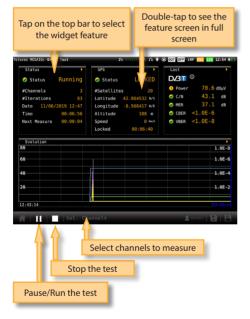
11. Drive Test

The Drive Test feature activates the GPS automatically.

This is a suitable function to detect possible signal coverage problems in a specific area and find out what's causing it.

The screen corresponding to this feature is Mosaic3+1 type. This configuration has 4 widgets. All the widgets are user-configurable.

11.1.- Main window



When you tap on "Sel Channels", a pop-up window will show all the plans of the selected channel plan, so you can select those that you want to check in the drive test:

S25 S26 S27 S28 S29 S30 354.000 89 \$37 \$33 \$34 \$35 \$36 S37 \$39 \$40 \$41 21 22 23 26 28 29 30 35 26 37

S11 S12 S13

518 519 520

Tap to select the channels to measure

Select Channels

S14

521

S15 S16 S17

<u>\$22</u> \$23 \$24

S31

S38

24

31

38



Once you tap on the Run button, you must select the name of the Drive Test File and the time interval between two consecutive measurements:



Note that, if the time necessary to perform the measurements on all the selected channels is greater than the time interval, the time between one iteration and the next one will be the minimum necessary to perform the measurements in all the selected channels.

11.2.- Features

This section explains all the features available to visualize in Network Tools function.

11.2.1- Status

This function shows the current status of the test.

11.2.1.1.- Main window

Orange icon if the test is paused Green icon if the test is running Red icon if the test is stopped

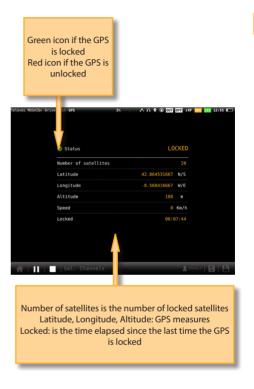
Televes MOSAIQ:-Drive	st-Status	35 ····; ··· A A 🕈 🖗 OUT 055 14	F 086 135 12:55 📧
0	Status	Running	
N	umber of channels		
N	umber of iterations		
I	nitial date	11/06/2019 12:47	
E	lapsed time	60:07:39	
N	ext Measure	00:00:01	
	Sel. Channels	*	REFAULT B

Number of channels: is the number of channels selected by the user to be measured in each iteration Iterations: number of iterations of the test made from the start to now Initial date: date when the test began Elapsed time: time elapsed from the start date to now

11.2.2- GPS

This function shows all the information of the GPS.

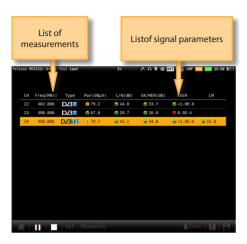
11.2.2.1.- Main window



11.2.3.- Last

This function shows the current measurements obtained by the HEXYLON during the drive test.

11.2.3.1.- Main window



11.2.4- Evolution

This function shows the time evolution of the selected channel measuremets obtained by the HEXYLON during the drive test, as well as the current measurements in all the channels. The window is similar to the one of the section 6.4.3.-Measurements

11.2.4.1.- Main window





The MOSAIQ6 saves two types of measurements files: LOGs and MacroLOGs.

A **LOG** saves all the measurements on the screen , as well as a screenshot. To save a LOG, tap on the icon \square in the bottom bar.

A **MacroLOG** is a scheduled measurement that the meter repeats automatically in a time interval selected by the user.

To schedule a MacroLOG tap on icon 🛃 in the bottom bar.

Then a popup window will be open, where you can select the time interval. Then tap on the Start button:

Televes MOSAIQe - Radio Analyzer		A 🕺 🔟 1RF 09:17	.
	Save MacroLog		
1	New MacroLog	L0G-0987	
 • . 	Interval(1m)	—	
L0G-0000			
LOG-0001			
L0G-0002			
L0G-0003			
L0G-0004			
L0G-0005			
L0G-0006			
	Start	Cancel	
The second secon	24	DAB 👗 DEFAULT 🚺 🖒	5

The meter makes and saves the measurements in each specified time interval until the user taps on Stop button.

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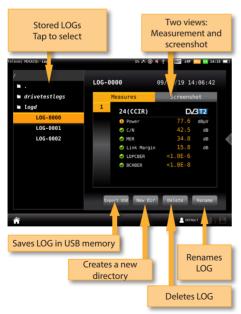
The LOGs feature allow us to see all the LOGs and MacroLOGs stored in the meter.

•Screenshot: shows a screenshot of the meter exactly as it is at the measurement time.

If you select a MacroLOG, you can also select the measurement iteration:



12.1.- Main window



For each LOG, there are two views:

Measurement: shows a list with all the measurements

Web application

To access you MOSAIQ6 web application, you must type the IP of you meter in the address bar of your web browser (Chrome recommended).

To know the IP of your meter, you must access to the top menu and select Network feature (see section *Settings* in *Top menu*).

The first time that you access to the web application you must use the following user and password:

User: admin

Password: admin

Then the web application will be open, showing the Resume window:





List:



1.- Measurements

This feature shows all the LOGs and MacroLOGs stores in the meter.

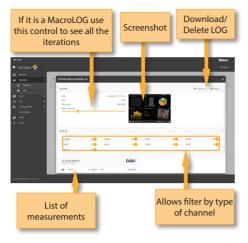
There are two display modes:

•Calendar: the measurements are shown grouped by date in a calendar:

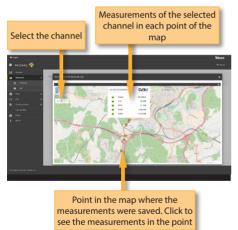
Once the LOG is selected, we see a window with all the information:

Using the buttons placed at the top right os the screen, you can remove the selected LOGs or download them to your computer in .xls format (it will be generated a .xls file for each LOG and they all will be downloaded together in a .zip file).

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If the MacroLOG has, in addition, GPS information, you can see all the measurements iterations placed in a map in the position where they was made, so you have a detailed mapping and coverage analysis.



The Terrestrial and Satellite channel plan are the standard channel plans of the corresponding band. These plans can be removed from the meter, but they can not be edited. However, you can make a copy of one of them to build a new customer channel plan from it.

The duplicated plans will appear in the Customer list automatically..

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Customer channel plans can be edited:

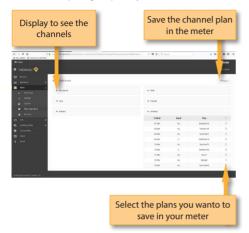
2. Plans

In this window, you can see all the channel plans of your H30FLEX.

They are grouped in three categories: Terrestrial, Satellite and Customer.

The application also allows to configure the channel plans according to the geographic area you will use the meter.

The user can select the channel plans using the feature Repository. In this window you can see all the channel plan grouped by zones.



You can also upload to your meter the channel plans of a geographical zone automatically. To do that use the feature Set zone. In this window you can see a map of the world, and you can select the area where you will use the meter by clicking on it. With this and considering the language selected in your meter, the MOSAIQ6 will select automatically the channel plans both in terrestrial and satellite bands.



3. SCR

In this window, you can setup the multiswitches. The H30FLEX includes a list of multiswitches by default, but you can add more or edit any of the existing ones.



4. Quality profiles

Using the web application you can add new quality profiles. The MOSAIQ6 has two predefined quality profiles (head-end and outlet) that can not be edited, but they can be duplicated. The duplicated quality profiles are saved in the custom quality profiles, and the custom quality profiles can be edited.

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Save the profile in the meter Delete profile Duplicate profile

Custom quality profiles can be edited:

5. User profiles

Using the web application you can add new user profiles. The Hexylon has one pre-defined user profile (named Default) that is configured automatically acording to the geographical area selected by the user.

For each user profile, the user must select the band (or bands) that he or she wants to use in that profile, as well as the channel plan for each band other appropriate parameters, depending on the band.

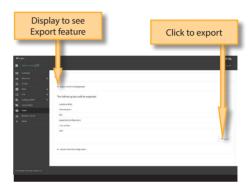


6. Clone

Using this feature it is very easy to have the same configuration in all your Hexylon meters.

You only have to export the configuration of the Hexylon that you wanto to copy, using the Export feature. So, the configuration will be saved in a file on you computer.

Then, connect other Hexylon where you want to copy the configuration to and select the Import feature.



7. Licenses

Please contact the agents of our comercial network to purchase the license you wisht at any moment. You will receive an e-mail with an attached file that you must save in yur computer.

Then select this feature to activate the license by dragging the file into the corresponding box that is shown on the screen, or find the file in your computer.

Finally click on the Update button, the license will be activated in your **MOSAIQ6**.

8. Remote control

Using this feature you can control your Hexylon remotely. For this to work, it is necessary that the Hexylon and the computer are connected to the same LAN.

To access to this feature you must enter the password admin in the right top part of the window. Then you will see the screen of the Hexylon in your computer:



Using the mouse you can control the Hexylon as with the hands, except the pinch/spread gestures.

Cloud Repository

By registering your MOSAIQ6 on our website (see *Before Starting* section), you will be able to benefit from the cloud repository.

To access your repository in the cloud, just put the following IP address in the bar of your browser: XXXXX.XXX

To access you must use the username and password you used for registration on our website.



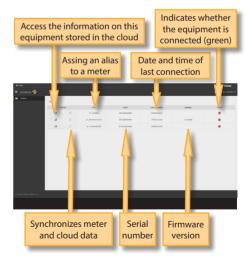
Once you enter your repository, you will see a list of all the meters you have registered:

9. Configuration

This feature allows you to restore the factory settings of your MOSAIQ6.

When you do that, all the measurements, TS recordings, channel plans, quelity and user profiles stored in your meter will be deleted.

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By clicking on one of the buttons on the left of the list, you can access the information in the cloud of that meter (it is not necessary for the device to be connected). You will then see a window similar to



that of the Web Application (see *Web Application* section):



Using the menus on the left of the window, you can view all the data for the selected meter, but you cannot edit it:

Error messages

LOW BATTERY

Indicates that the battery is about to finish. The battery icon is red now. It is recommended to connect the meter to the external power source.

LOW BATTERY

Shutting down Some time after the LOW BATTERY message appears (time varies depending on the functions used), it will appear this message. If the meter is not connected to the external power source, it will switch off.

BAD POWER

Unplug power source This message appears when the meter is connected to an external power source that does not supply it the right power. Please, use only the power source provided with the H30FLEX.

SHORT-CIRCUIT Check installation

This message appears when the meter detects a short-circuit at the RF input. It is recommended to check the installation to find out why the short circuit is produced.

DC OUTPUT LIMIT EXCEED Switch DC OUTPUT off

This message appears when the meter detects an excessive consumption from the device that is being powered. It is recommended to turn off the powering feature of the MOSAIQ6.

DC AT RF INPUT Check installation

This message appears when the meter detects DC at the RF input that is not generated by the MOSAIQ6. It is recommended to check the installation.

Maintenance

Always disconnect the unit before cleaning. Use only a mild solution of detergent and water applied with a soft damp cloth. Dry thoroughly before use.

Do not use aromatic hydrocarbons or chlorinated solvents. These products may damage the unit.

Do not use alcohol or alcohol based products on the front panel, especially the display.

These products may damage the unit.

Technical support

For any questions, contact Technical Support at

www.televes.com

Before contacting Technical Support for repair, read the manual to ensure proper use and attempt to RESET the unit to clear any problems.

Repair service

Do not return the unit without first contacting Televes Technical Support.

If the unit needs to be returned, Televes will arrange for free shipping. The unit will need to be appropriately packed for shipping.

In compliance with IATA Regulations, when using our shipping service follow these instructions:

·Label the package.

•The equipment should fit as snugly as possible in the box. It is recommended to use the original packing materials.



•Attach the precaution label to the package.

Failure to comply with these shipping requirements may result in the shipping agent rejecting the package.

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Warranty

Televes warrants, only to the original Purchaser, for a period of one (1) year from the date of original purchase, unless otherwise specified.

For the battery, due to the nature of the product, the warranty period is six (6) months.

Keep the purchase invoice to determine the warranty start date.

During the warranty period, Televes S.A. assumes any defect in materials or workmanship.

This warranty excludes any inoperability resulting from improper use, wear, service or repair performed by any third party not authorized, catastrophes or any cause unrelated to Televes S.A.

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