

FRONT VIEW



Trademark of the DVB - Digital Video Broadcasting Project

- | | | |
|---|--|------------------------------------|
| ① Touch Screen | ⑥ Joystick | ⑪ Battery charging indicator |
| ② Measurement key | ⑦ Installations management key | ⑫ Light sensor |
| ③ Spectrum key | ⑧ Settings key | ⑬ Reset (press and hold 5s) |
| ④ TV key | ⑨ External Audio/Video Input indicator | ⑭ Softkeys |
| ⑤ Export (press >1s)
/ Reference (press <1s) | ⑩ External unit power Supply indicator | ⑮ Active Function indicator |

SCREEN ICONS REFERENCE

STATUS BAR

- Battery charging**
- Battery not charging, time left indicator**
- Battery not charging. Yellow level indicates charge left**
- Satellite band**
- Current voltage, 22 kHz signal and LNB power level**
- Terrestrial band**
- USB flash drive inserted**
- WIFI signal source**
- Current installation**
- Compressed installation**
- SatCR (SCD/EN50494) commands enabled**
- JESS (SCD2/EN50607) commands enabled**
- Joystick multi-function enabled.**
Two-letter code indicates the exact function:
 - FR** Frequency tuning
 - CH** Channel tuning
 - SP** SPAN change
 - MK** Marker moving
 - EC** Echo change/zoom
 - AP** Access Point change

* **Optical Option.** Refer annex on the User's Manual

- Task scheduled**
- 5 GHz RF Auxiliary Input***
- IPTV signal source**
- OTT streaming**

SERVICE LIST SELECTOR

- DIGITAL TV service**
- HD High Definition TV service**
- Digital radio**
- Data**
- Scrambled service**

DIALOG BOXES

- Error message**
- Question message**
- OK message**
- Warning message**

VIDEO & AUDIO SETTINGS MENU

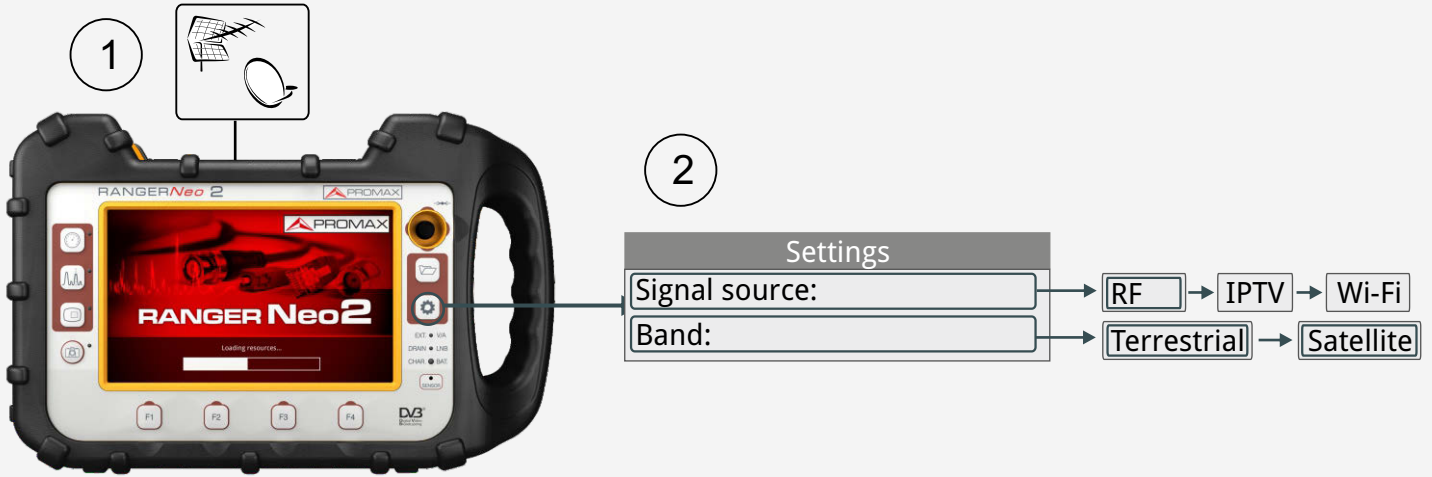
- TFT backlight brightness**
- Volume**

ON: (<1s)

OFF: (2s)

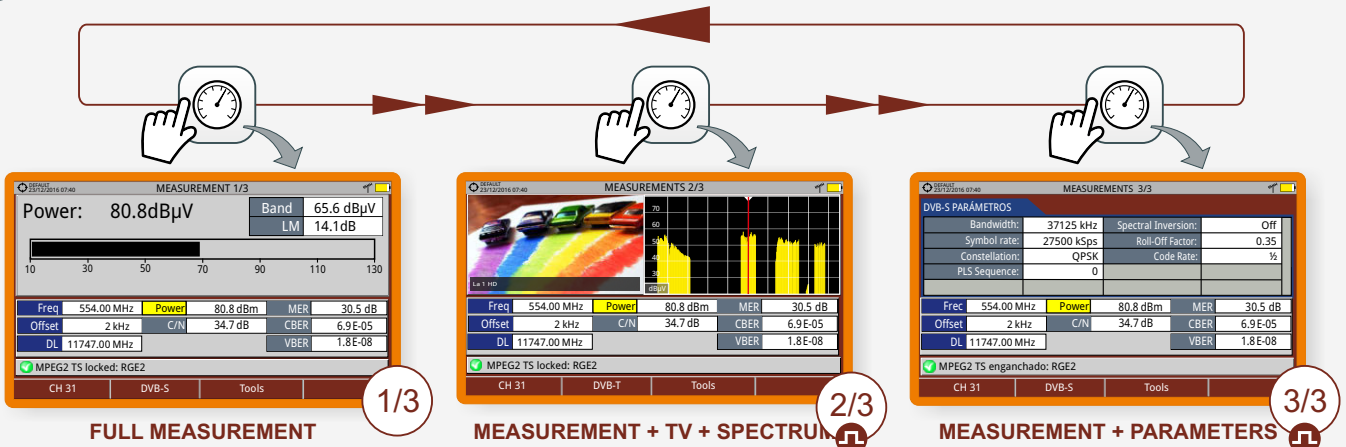


RF ► SETTINGS

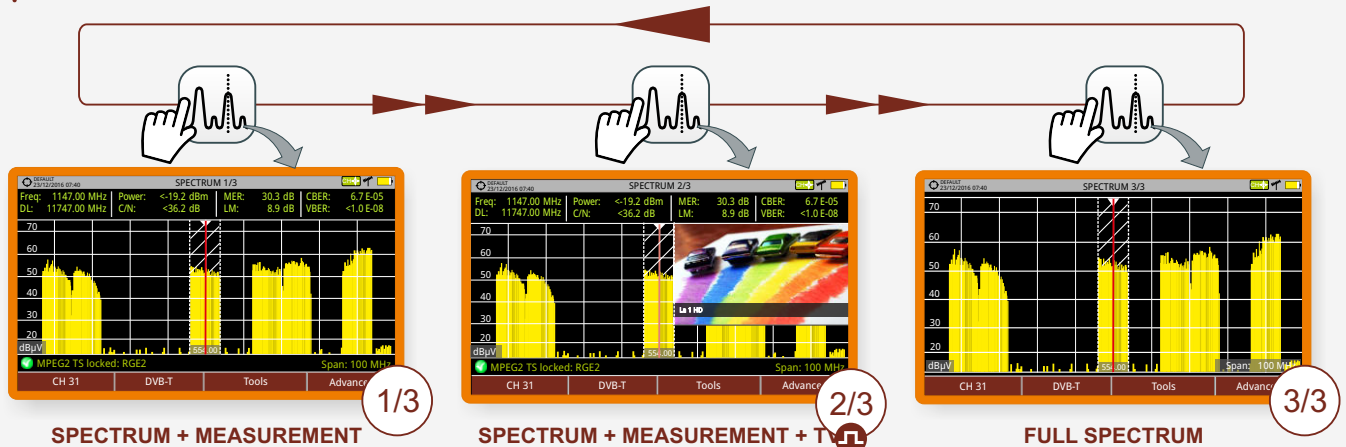


RF ► SCREENS

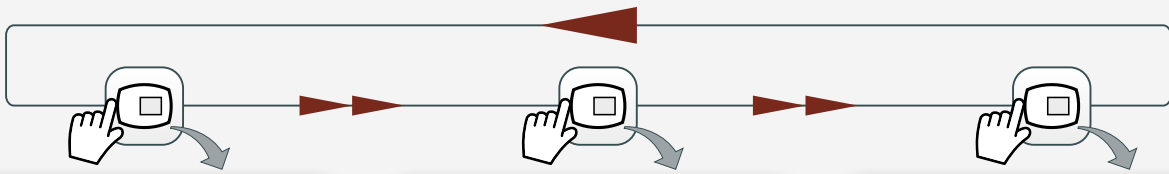
► MEASUREMENT



► SPECTRUM ANALYSER

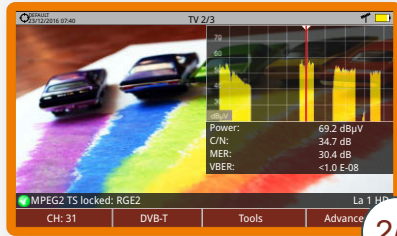


TV MODE



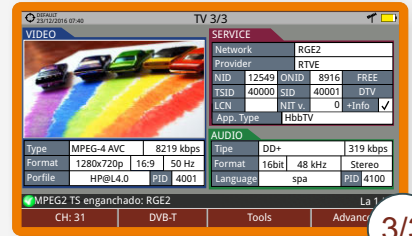
FULL TV

1/3



TV + SPECTRUM + MEASUREMENTS

2/3



TV + SERVICE DATA

3/3

RF MENUS



Tuning

- Channel:
- Channel Plan → Channel Plan 1 → Channel Plan 2
- Tune by: → Channel → Frequency
- View all services...



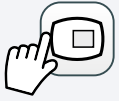
Tuning

- Frequency:
- Channel Plan: → Channel plan 1 → Channel Plan 2
- Tune By: → Channel → Frequency
- Center Freq: ○
- Ref. Level: ○
- Span: ○
- Center tuned frequency
- View all services...



Signal Parameters

- Signal Type:
- View Advanced Parameters



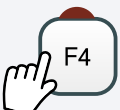
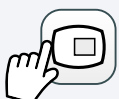
Tools

- Select Service...
- Signal Monitoring
- Explore Channel Plan
- Discover FM Stations
- Field Strength: Off On
- Datalogger New... Test & Go
- TS Analyser
- TS Recording...
- Echoes
- Cosntellation
- MER by carrier
- Shoulder Attenuation
- LTE Ingress Test
- Attenuation Test
- Task Planner...
- Merogram
- Spectrogram
- Wi-Fi Configuration
- Analogue Input Antenna External



Advanced

- Average:
- Spectrum Line: Outline Solid Transparency
- Tone Level: Off On
- Marker: Normal
- Marker Trace: Off Permanent Curtain
- Max.Hold: Off Permanent Curtain
- Min.Hold: Off On
- Persistence: PEAK RMS
- Detector Type::
- Resolution Bandwidth: 2 kHz 10 kHz 20 kHz 40 kHz 100 kHz
- Vertical Range: 10 dB/div 5 dB/div 2 dB/div 1 dB/div 200 kHz 1000 kHz
- Dashed BW: Off On
- Reference: Set Clear



Advanced

- Audio:
- Discovered URLs:
- TS Data:
- Aspect Ratio: 4:3 16:9

WIFI ► SETTINGS



WIFI ► SCREENS

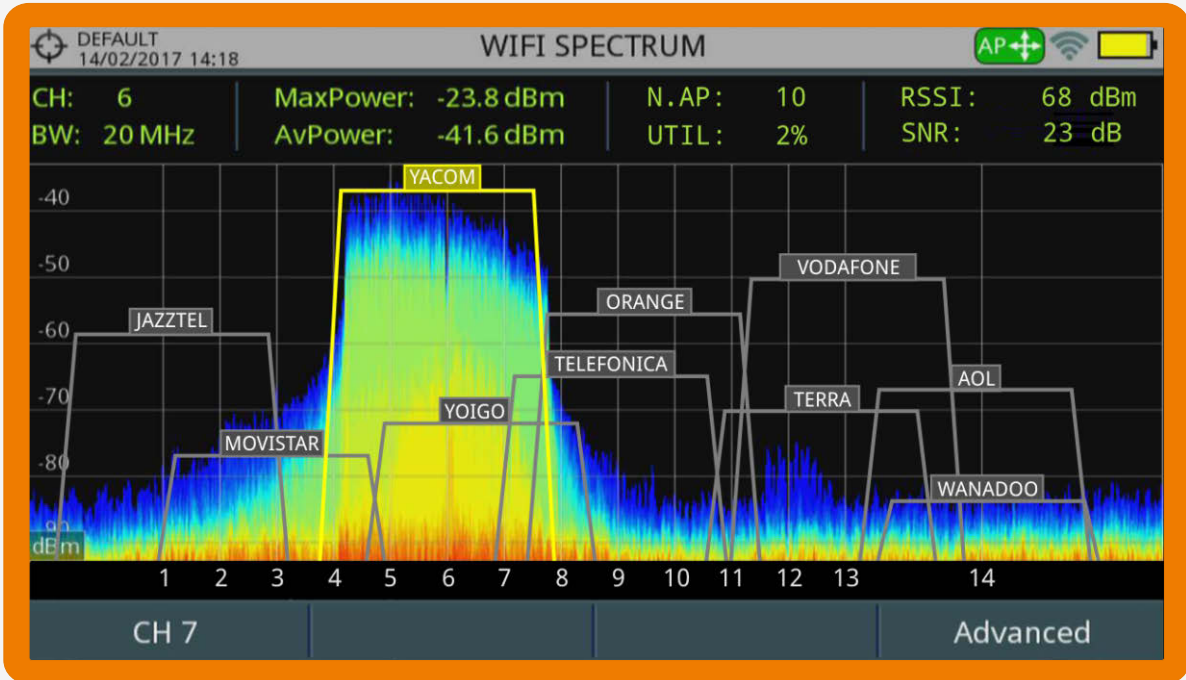
► SITE SURVEY

PROMAX 22/12/2016 12:10		SITE SURVEY					
SSID	BSS	CH	RSSI(dBm)	Security	Device		
JAZZTEL	01:23:45:67:89:ab	1	-86	WPA	Wireless Router...		
MOVISTAR	aa:bb:cc:dd:ee:ff	2	-72	WPA2	WAP6969N		
YACOM	98:76:54:32:10:fe	3	-84	WPE			
YOIGO	a1:b2:c3:d4:e5:f6	4	-74	None			
ORANGE	22:44:66:88:ab:cd	5	-70	WPA			
VODAFONE	13:57:92:46:80:31	6	-88	WPA			
ARRAKIS	ca:ac:ed:de:fb:bf	7	-78	WPA			
TELEFONICA	57:26:21:44:a6:89	8	-76	WPA			
TERRA	11:85:e5:74:0c:53	9	-80	WPA			
WANADOO	b4:07:32:41:a6:1c	10	-82	WPA			

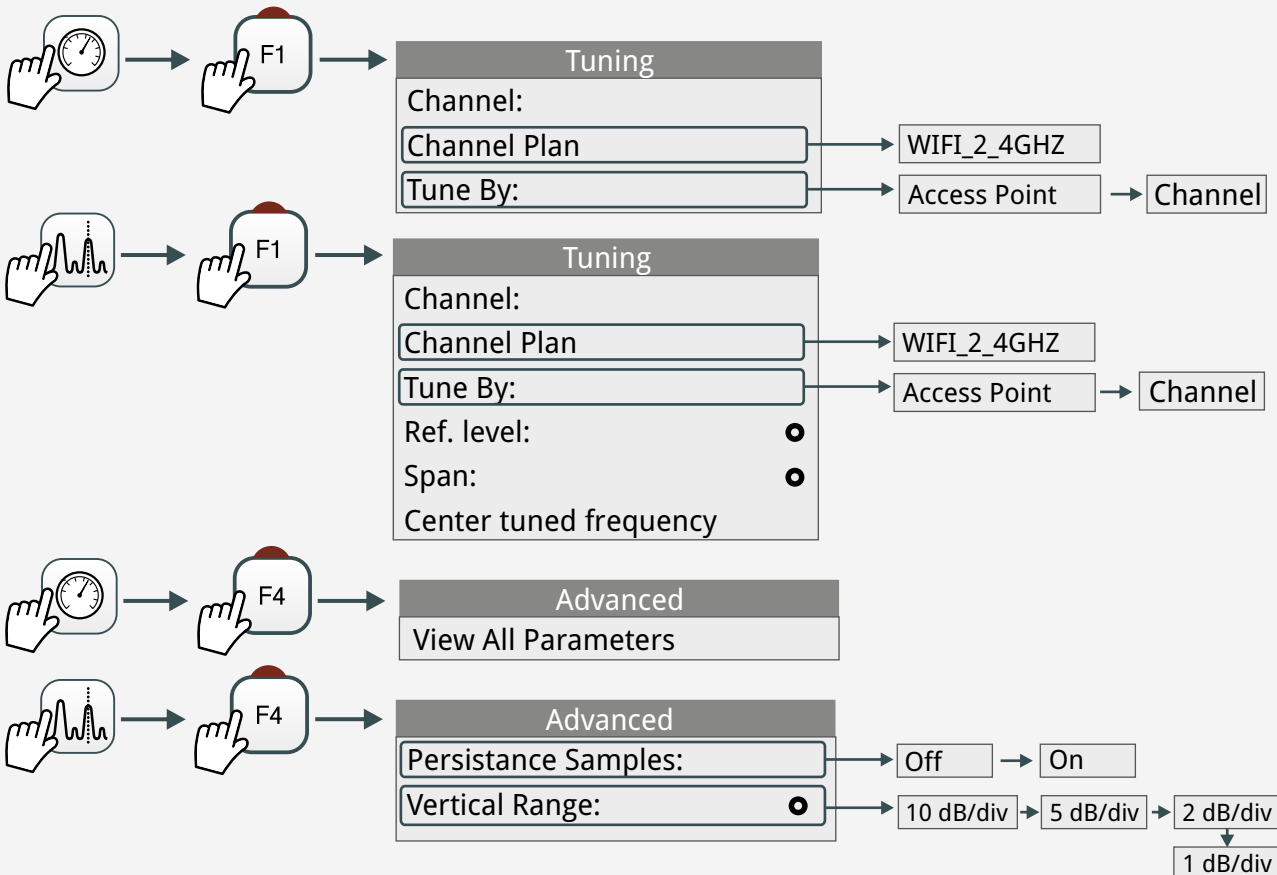
CH 1 | Advanced



WIFI SPECTRUM



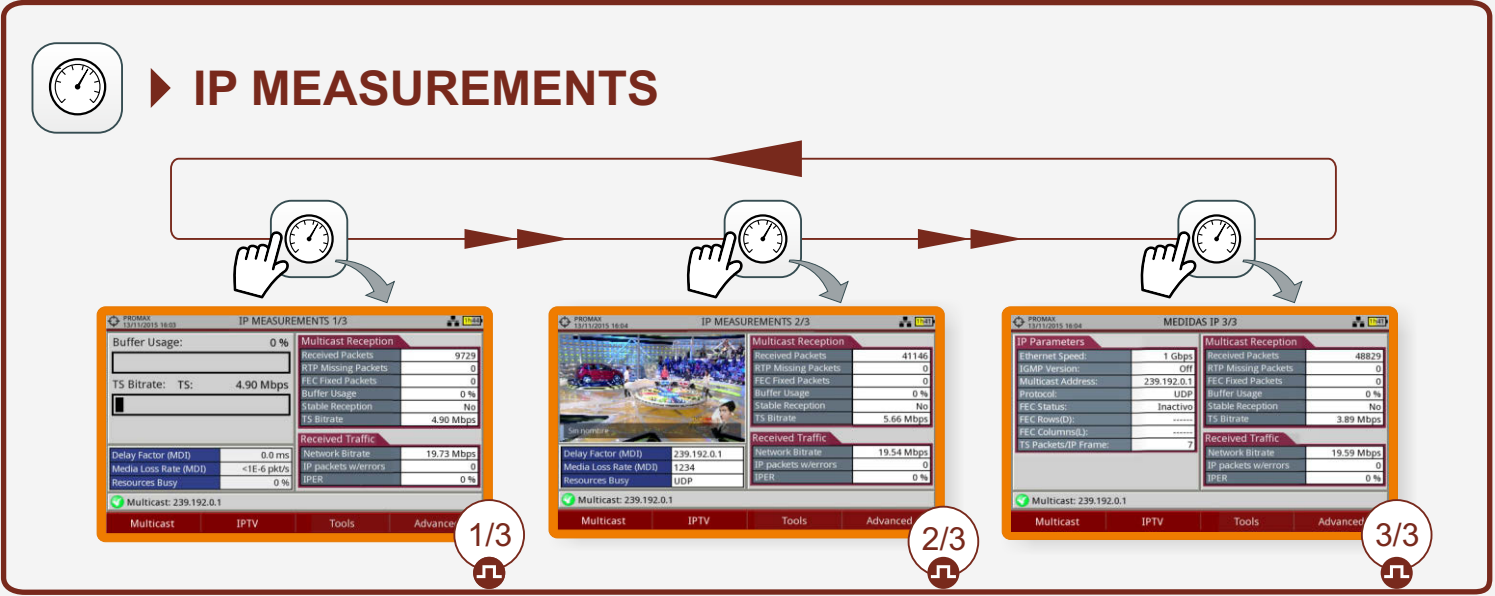
WIFI MENUS



IPTV ip.tv ▶ SETTINGS



IPTV ip.tv ▶ SCREENS



IP MEASUREMENTS 1/3

Buffer Usage:	0 %
TS Bitrate: TS:	4.90 Mbps
Delay Factor (MDD)	0.0 ms
Media Loss Rate (MDD)	<1E-6 pkts/s
Resources Busy	0 %
Multicast: 239.192.0.1	

Multicast Reception	
Received Packets:	9729
RTP Missing Packets:	0
FEC Fixed Packets:	0
Buffer Usage:	0 %
Stable Reception:	No
TS Bitrate:	4.90 Mbps
Received Traffic	
Network Bitrate:	19.73 Mbps
IP packets w/errors:	0
IPER:	0 %

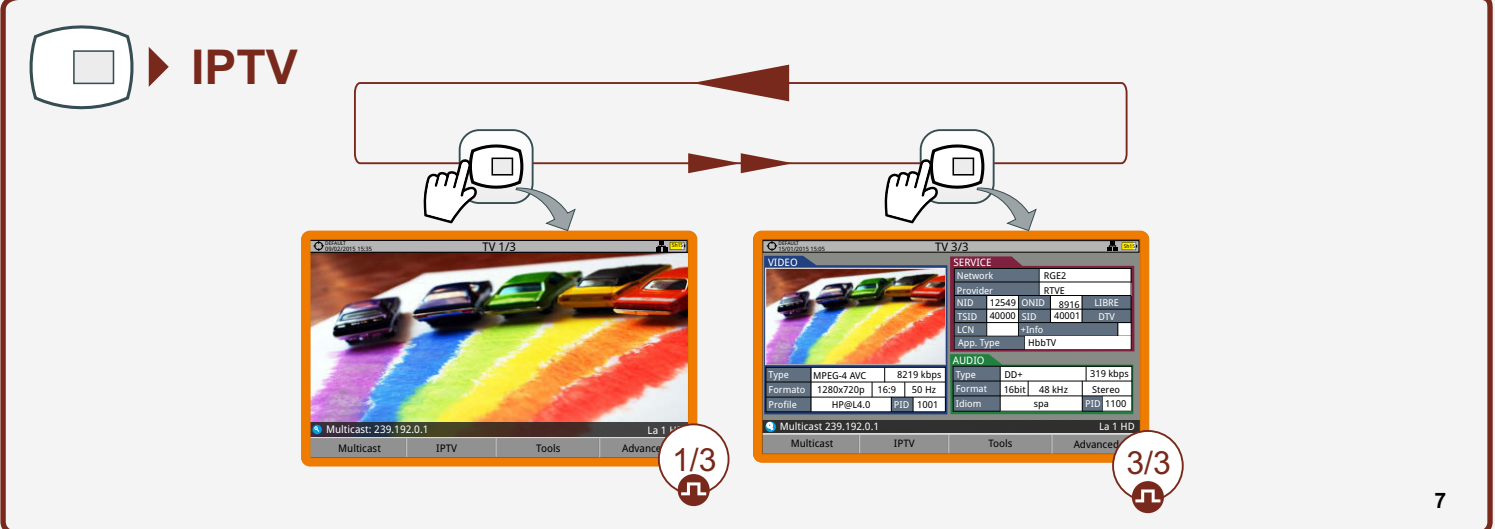
IP MEASUREMENTS 2/3

Delay Factor (MDD)	239.192.0.1
Media Loss Rate (MDD)	1234
Resources Busy	0 %
Multicast: 239.192.0.1	

Multicast Reception	
Received Packets:	41145
RTP Missing Packets:	0
FEC Fixed Packets:	0
Buffer Usage:	0 %
Stable Reception:	No
TS Bitrate:	5.66 Mbps
Received Traffic	
Network Bitrate:	19.54 Mbps
IP packets w/errors:	0
IPER:	0 %

MEDIDAS IP 3/3

IP Parameters	
Ethernet Speed:	1 Gbps
IGMP Version:	OFF
Multicast Address:	239.192.0.1
Protocol:	UDP
FEC Status:	Inactivo
FEC Rows(s):	-----
FEC Columns(s):	-----
TS Packets/IP Frame:	7
Multicast Reception	
Received Packets:	48829
RTP Missing Packets:	0
FEC Fixed Packets:	0
Buffer Usage:	0 %
Stable Reception:	No
TS Bitrate:	3.89 Mbps
Received Traffic	
Network Bitrate:	19.59 Mbps
IP packets w/errors:	0
IPER:	0 %



TV 1/3

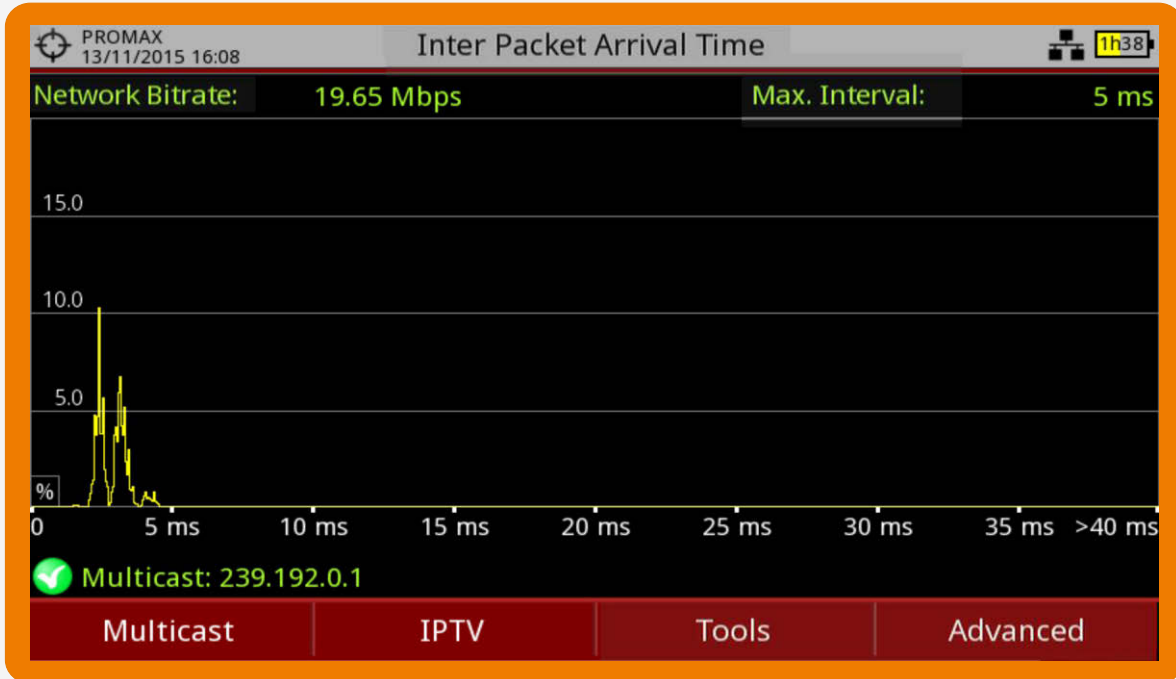
Type	MPEG-4 AVC	8219 kbps
Formato	1280x720p	16:9 50 Hz
Profile	HP@L4.0	1001

TV 3/3

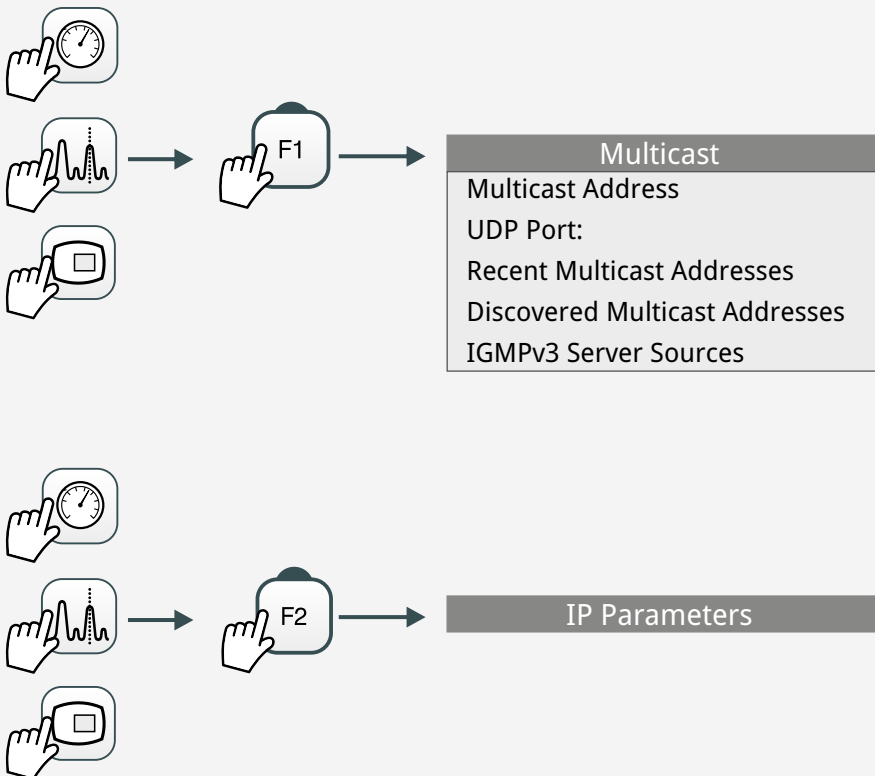
SERVICE		
Network	RGE2	
Provider	RTVE	
NID	12549	ONID 8916 LIBRE
TSID	40000	SID 40001 DTV
LCN	Info	
App. Type	HbbTV	
AUDIO		
Type	DD+	319 kbps
Formato	16bit	48 kHz Stereo
Profile	spa	1100

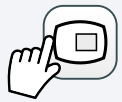


INTER PACKET ARRIVAL TIME

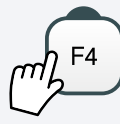


IPTV ip.tv ► MENUS





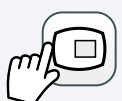
Tools	
Select Service...	
TS Analyser	
TS Recording...	
View IP Network Log...	
IPTV Graph Inter Packet Arrival Time	
IP Ethernet Frame Viewer	
Ping and delay measurements..	
Task Planner...	



Advanced	
Reset IP measures	



Advanced	
Span	
Restart analysis	



Advanced	
Audio	
Discovered URLs	
TS Data	



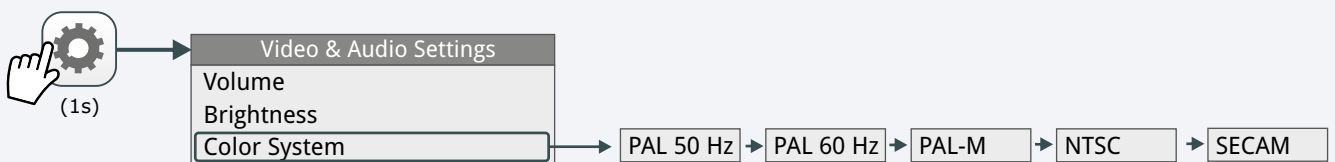
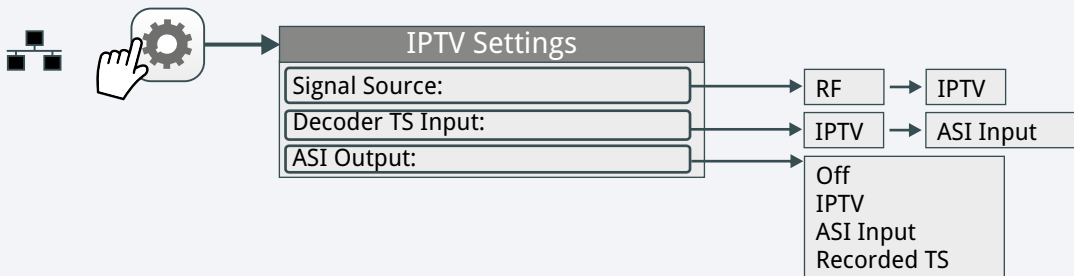
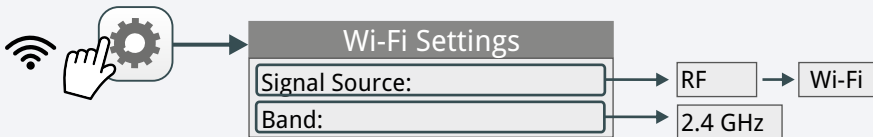
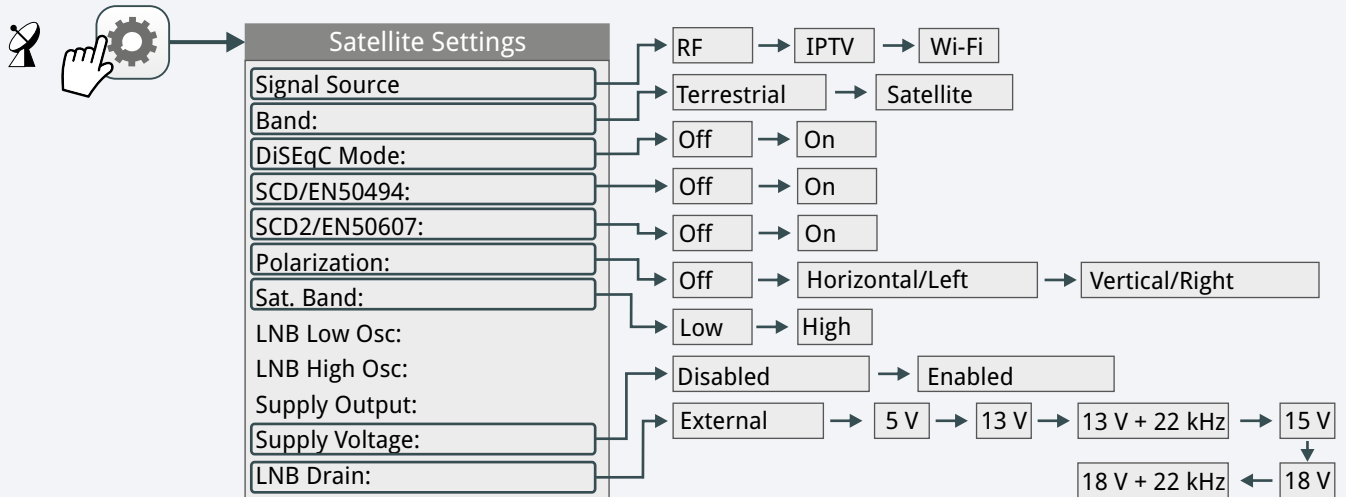
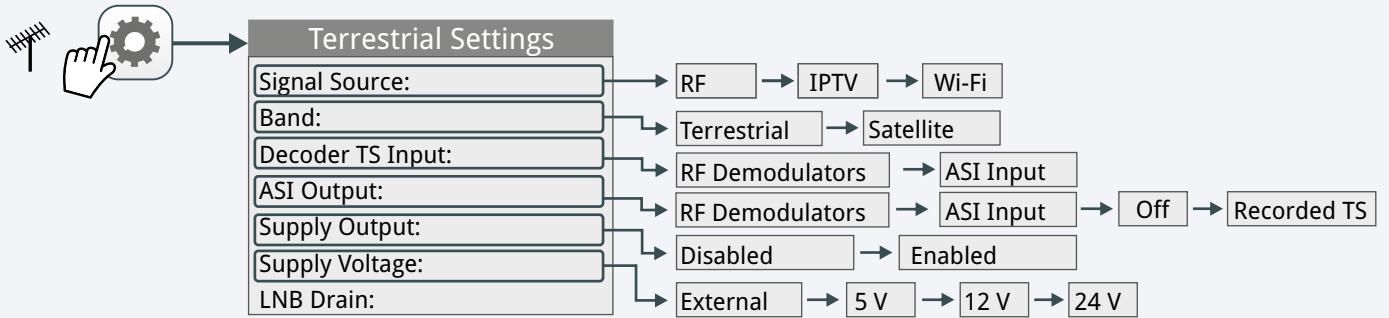
▶ PREFERENCES MENU



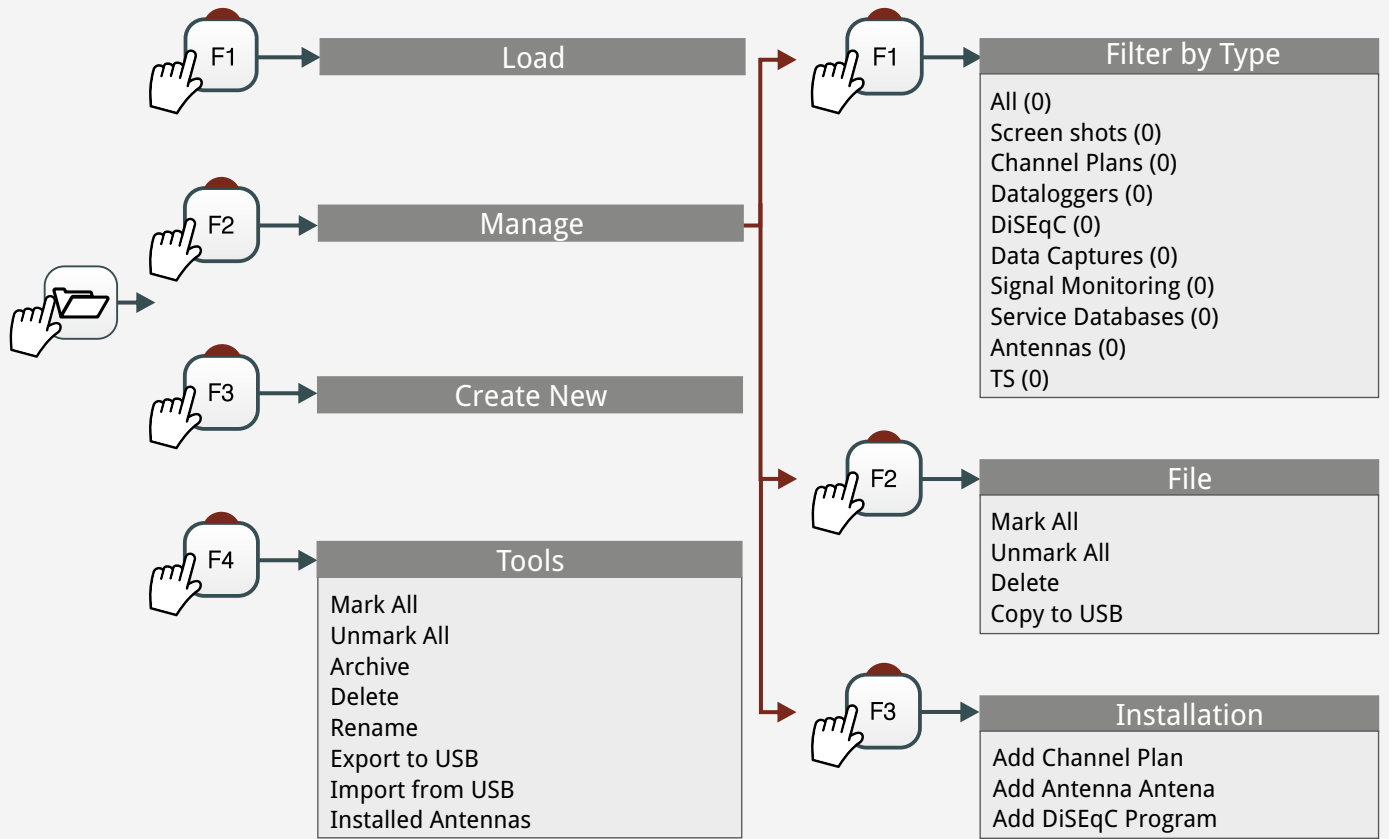
(1s)

Preferencias	
Equipment	Provider Name, SN Release, Date Free System Memory, Free Data Memory, User Company
Appearance	Language: Power Off, TFT Screen, Vibration:: Values Format:
Time & Date	Skin: Brightness, Color System, Boot screen:
Measures	Date: Time: Date Format: Time Zone:
Tools	Terrestrial Units: Sat. Band: Min. TER. Power: Min. FM. Level:
Stealth-ID	Satellite Units: Ref. Level: Min. SAT. Power: Inp. Impedance:
Security	Optical Units: Terr. Downlink: Min. TER. Level:
IPTV	Datalogger PSI: Export button: LTE Filter F. Max:
Network	Database services: LTE Filter F. Min: Center Freq:
	Analog Terrestrial → <input type="checkbox"/> ANALOG → <input type="checkbox"/> FM
	Digital Terrestrial → <input type="checkbox"/> DVB-T → <input type="checkbox"/> DVB-C → <input type="checkbox"/> DVB-T2 → <input type="checkbox"/> DVB-C2
	Digital Satellite → <input type="checkbox"/> DVB-S → <input type="checkbox"/> DVB-S2 → <input type="checkbox"/> DSS
	PIN Code 1234
	MAC: DHCP: IP Address: Mask: Gateway: IGMP Version
	MAC: DHCP: IP Address: Mask: Gateway:

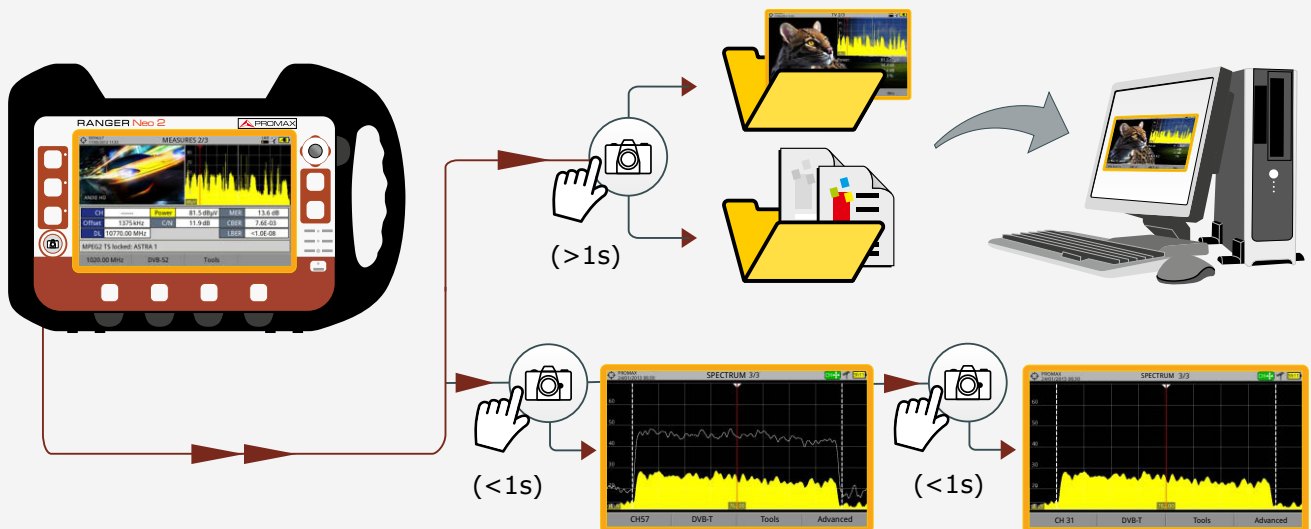
SETTINGS MENU



INSTALLATION MANAGEMENT



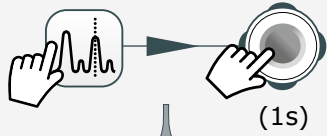
EXPORT* IMAGE / DATA / SPECTRUM REFERENCE



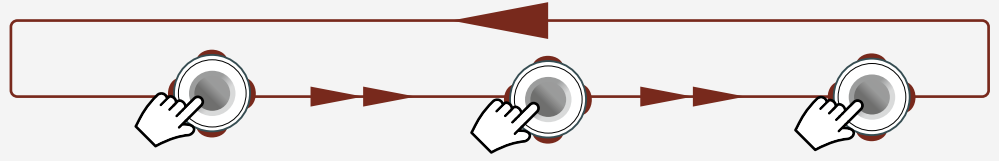
* Export settings in Preferences



▶ JOYSTICK



(1s)



AP ↕

Access Point
change

FR ↕

Frequency
tuning

CH ↕

Channel
tuning

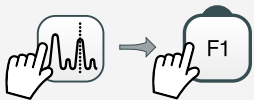
SP ↕

SPAN
Change

MK ↕

Marker moving
(Marker ON)

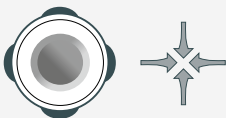
PARAMETER EDITION



Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



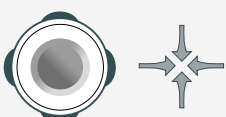
Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●

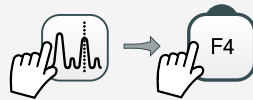


Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.10 MHz ●



Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.10 MHz ●

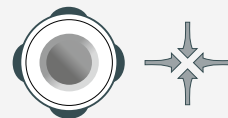
PARAMETER SELECTION



Advanced	
Average	0 ●
Spectrum Line	Outline ▾



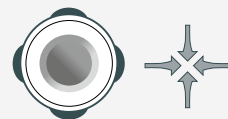
Advanced	
Average	0 ●
Spectrum Line	Outline ▾



Advanced	
Average	0 ●
Spectrum Line	Outline ▾
	Outline
	Solid
	Trans.



Advanced	
Average	0 ●
Spectrum Line	Outline ▾
	Outline
	Solid
	Trans.

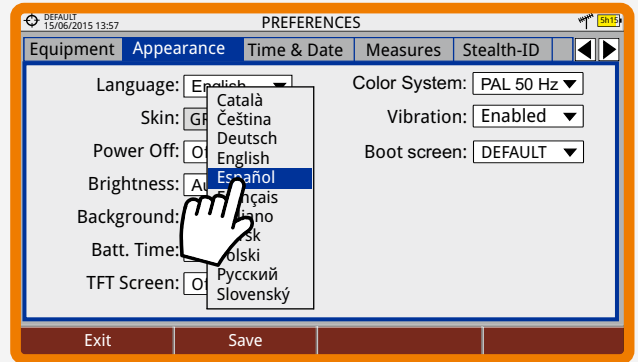
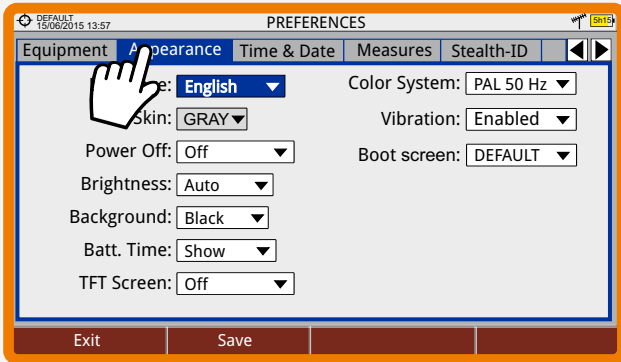


Advanced	
Average	0 ●
Spectrum Line	Solid ▾

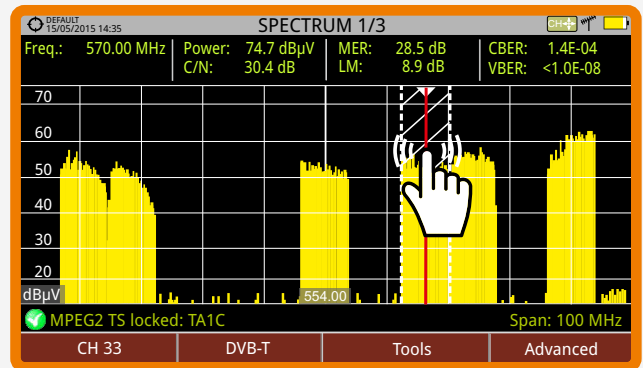
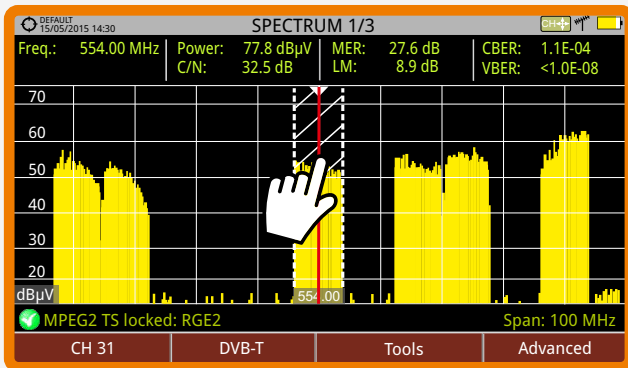


TOUCH SCREEN

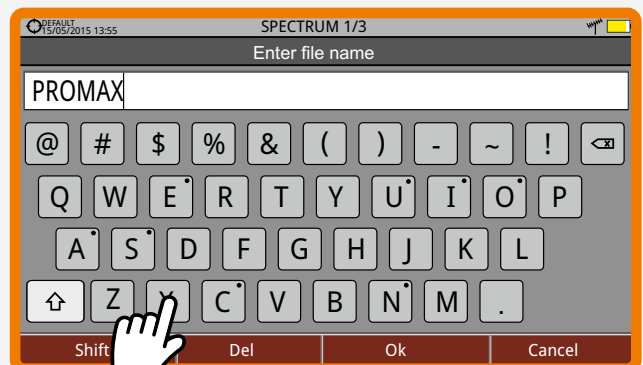
MENU SELECTION



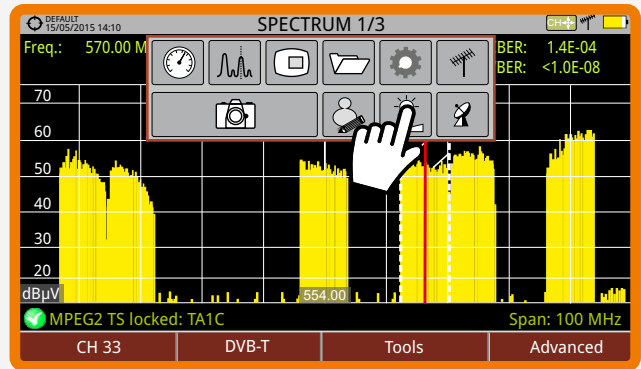
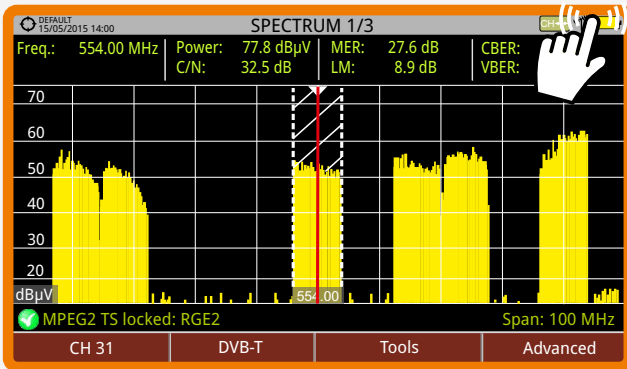
FREQUENCY SELECTION



VIRTUAL KEYBOARD WRITING



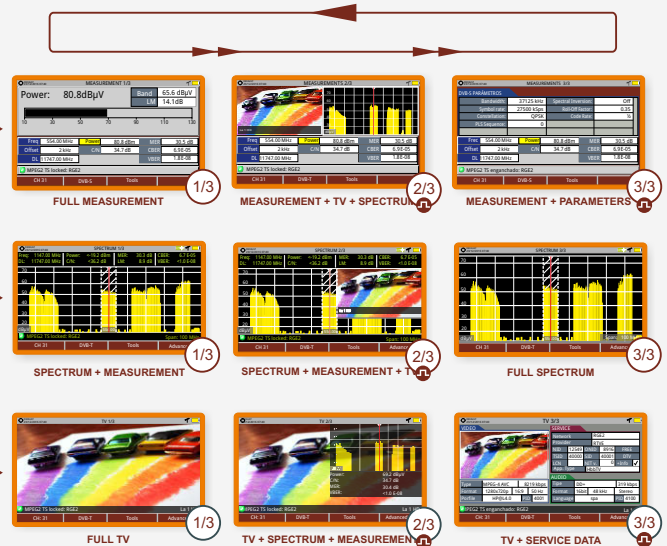
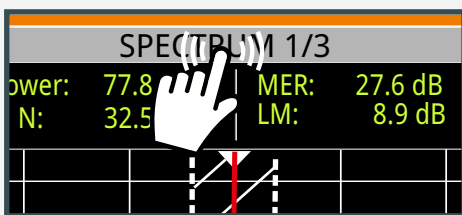
▶ TOOLBAR



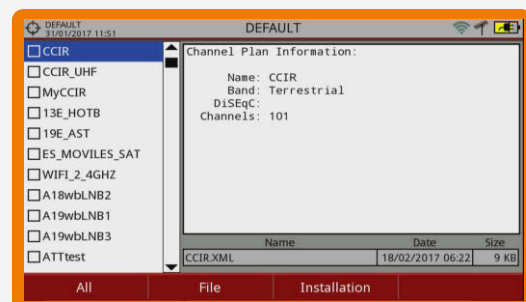
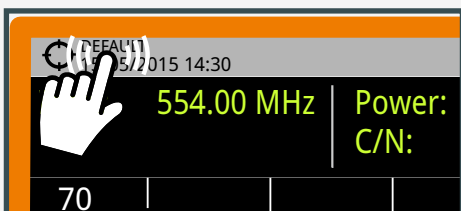
TOOLBAR ICONS

- Measurement Mode
- Settings
- Video & Audio Settings
- Spectrum Analyser Mode
- Terrestrial Band
- Preferences
- TV Mode
- Satellite Band
- Screen Capture
- Installations Management

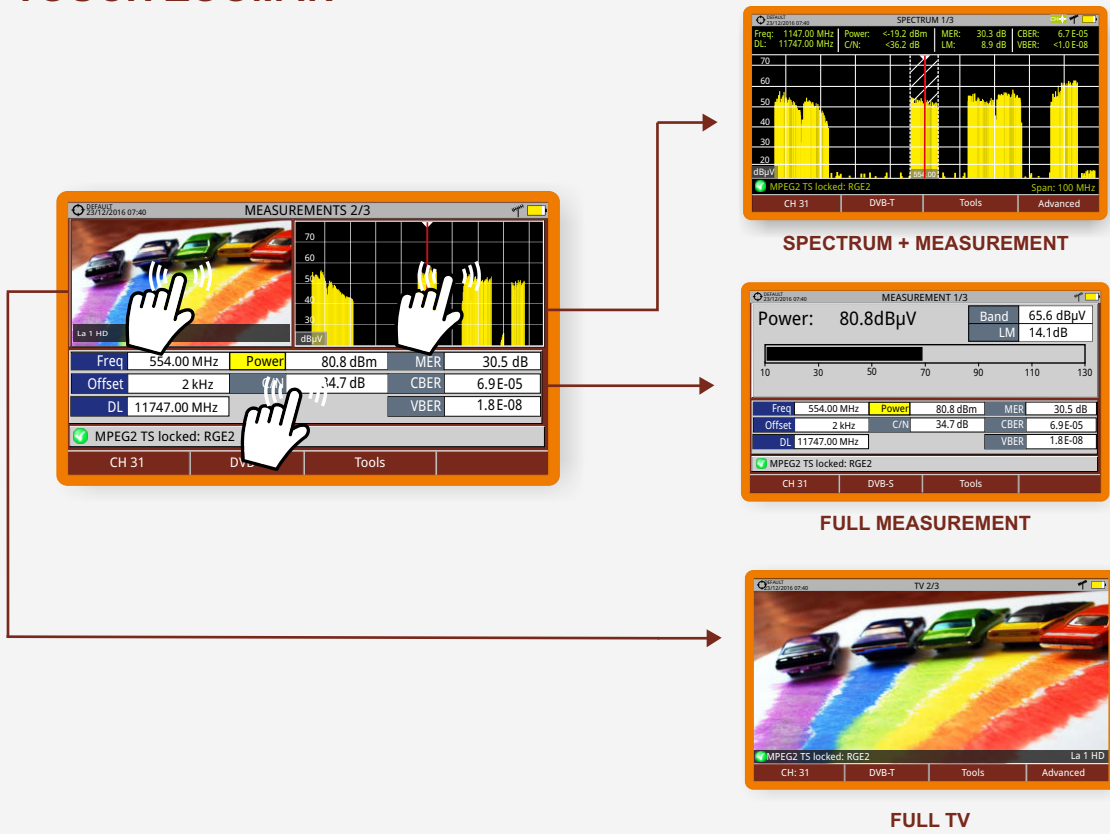
▶ MODE SCREENS



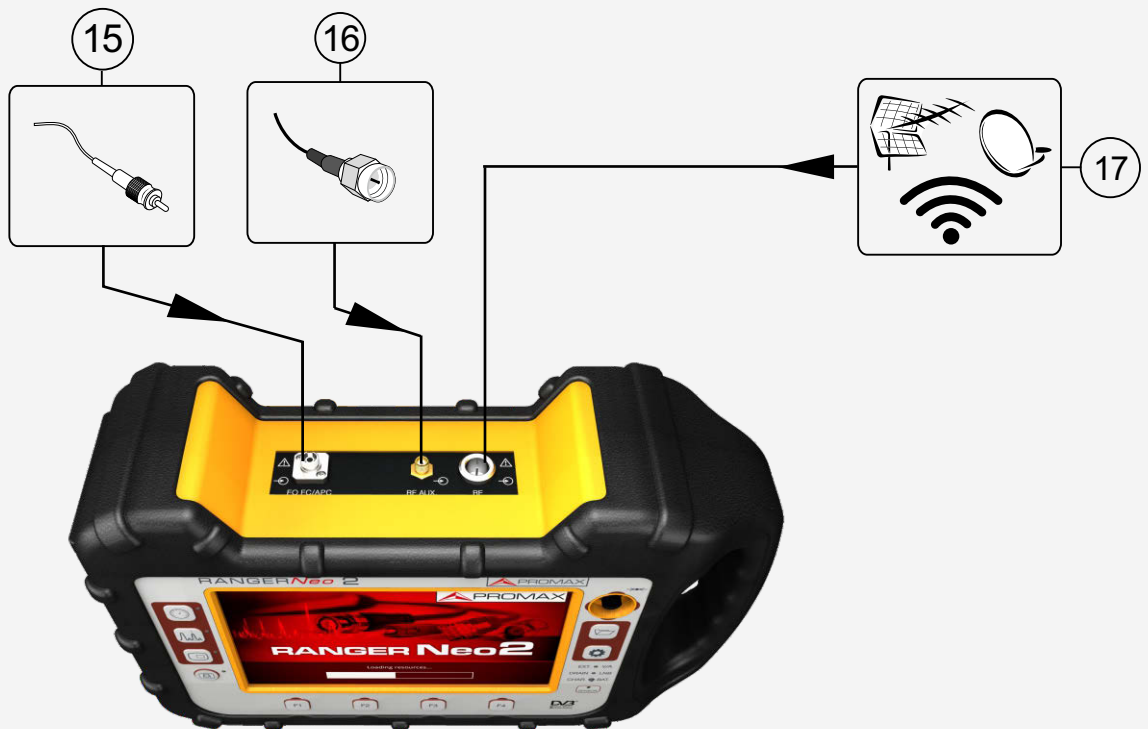
▶ INSTALLATIONS MANAGEMENT



▶ ONE-TOUCH ZOOM IN



TOP VIEW



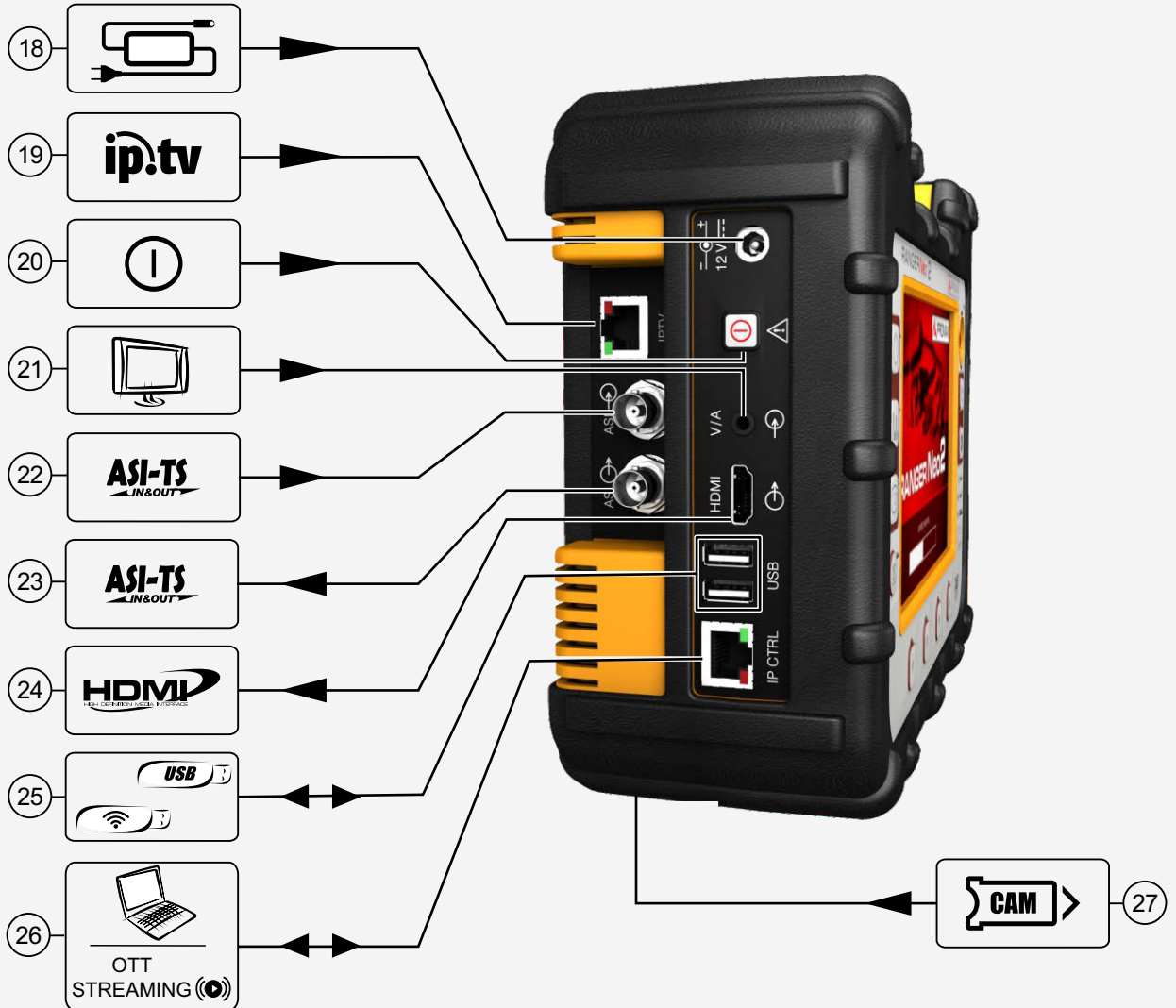
15 FC-APC connector (optical signal input) *

16 SMA connector (RF aux. Input signal) *

17 RF input connector

* Optical Option. Refer annex on the User's manual.

SIDE VIEW



- | | |
|---------------------------------|--|
| 18 Power input connector | 23 ASI-TS output |
| 19 ETHERNET connector | 24 HDMI output |
| 20 ON/OFF button | 25 USB connectors |
| 21 Video/Audio input | 26 ETHERNET connector for PC (NetUpdate) (** webserver) |
| 22 ASI-TS input | 27 Input connector for CAM module * |

* not included ** password : Password



RESET

If the device crashes, press the ON/OFF button for 10 seconds. If the device does not respond then press the F4 key for 6 seconds and then release to reset (see user's manual for more information).