

## 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 <b>Reset (press and hold 5s)</b> |
| 4 TV key  | 9 External Audio/Video Input indicator  | 14 Softkeys                         |
| 5 Export (press >1s)<br>/ 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

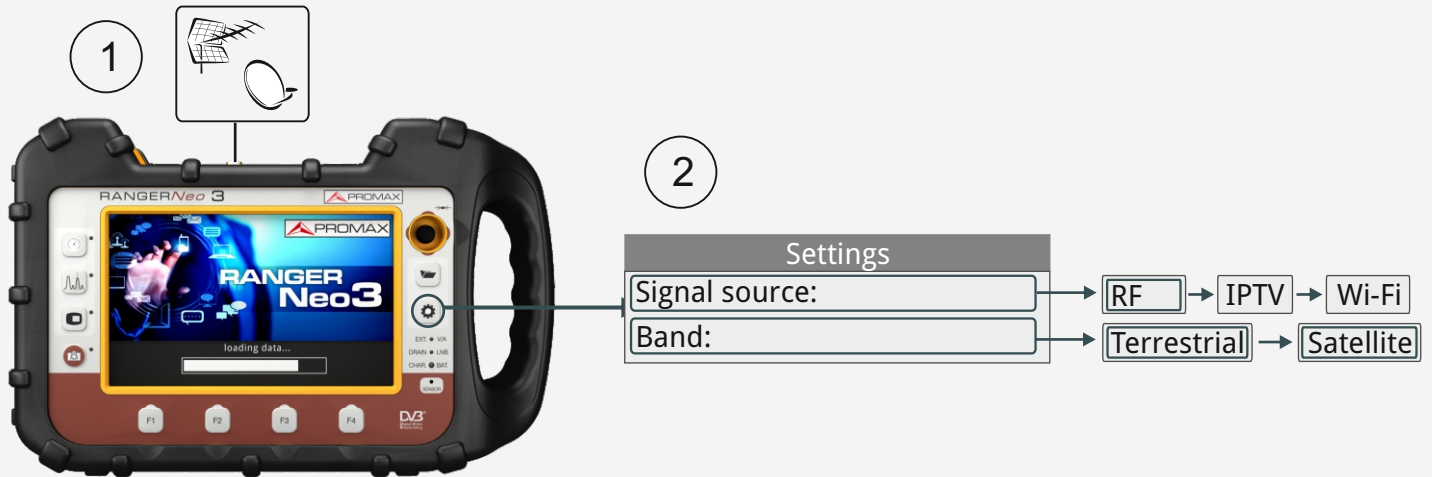
- TFT** backlight brightness
- Volume**

**ON:** (<1s)

**OFF:** (2s)

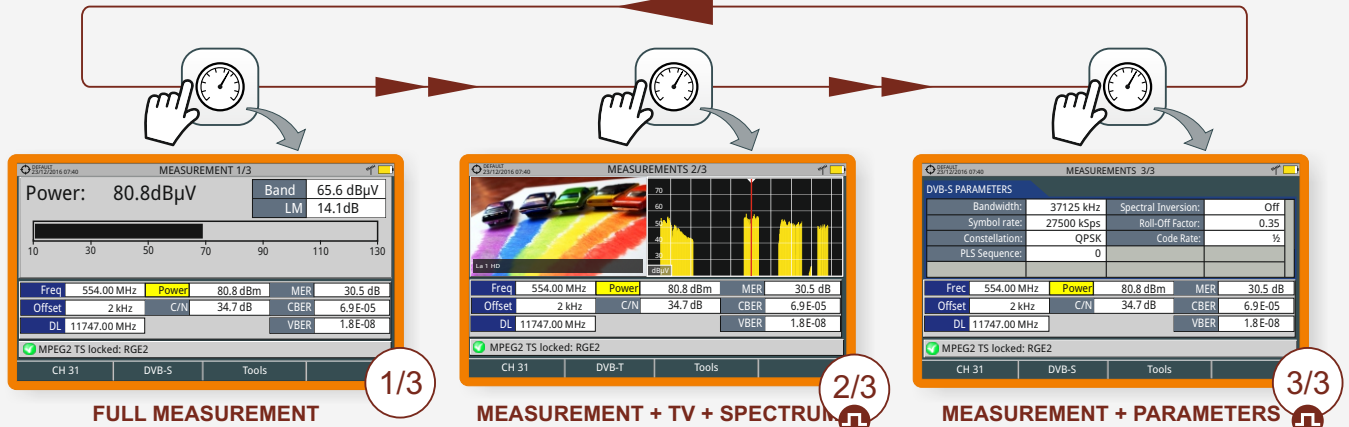


## RF ► SETTINGS

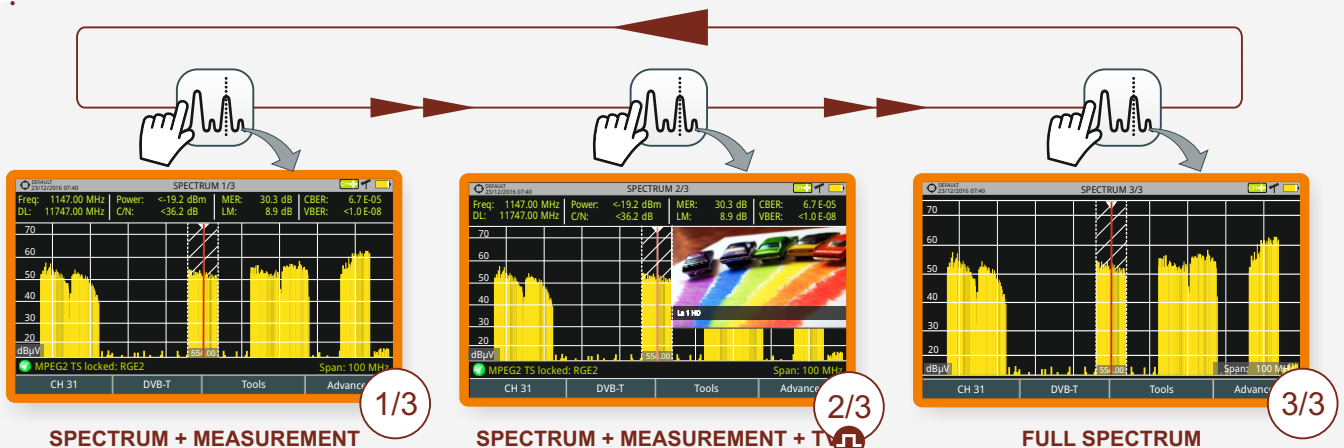


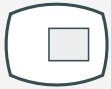
## RF ► SCREENS

### ► MEASUREMENT

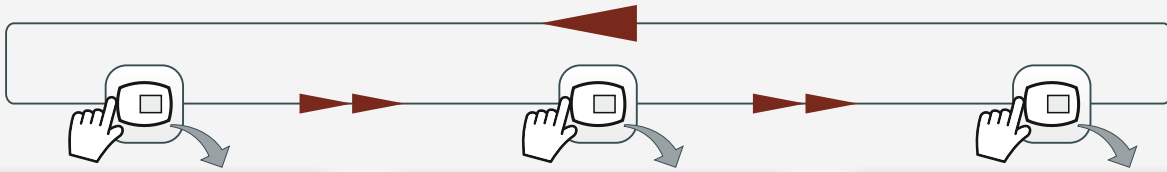


### ► SPECTRUM ANALYSER



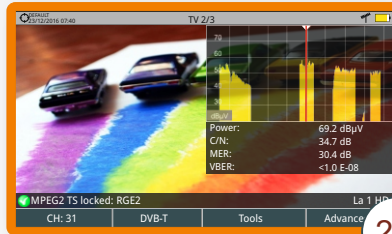


## TV MODE



FULL TV

1/3



TV + SPECTRUM + MEASUREMENTS

2/3

The image shows a television screen with a black bezel. At the top, a status bar displays a signal strength icon, a battery icon, and the text "TV 3/3". Below this, the screen is divided into two main sections. The left section, titled "VIDEO" in blue, features a small image of a multi-lane highway with several cars. Below the image, it lists video specifications: Type: MPEG-4 AVC, 8219 kbps; Format: 1280x720p, 16:9, 50 Hz; and Profile: HP@L4.0, PID 4001. The right section, titled "SERVICE" in red, lists service details: Network: RG2, Provider: RTVE, NID: 12549, ONID: 8916, TSID: 40000, SID: 40001, DTV: FREE, LCN: NIT v. 0, Info: [checked], App. type: HbbTV. Below the "SERVICE" section is an "AUDIO" section with the following details: Type: DD+, 319 kbps; Format: 16bit, 48 kHz, Stereo; and Language: spa, PID 4100. At the bottom of the screen, a green bar contains the text "MPEG2 TS enganchado: RG2". Below this bar are four buttons: "CH: 31", "DVB-T", "Tools", and "Avanza". A large, stylized number "31" is visible in the bottom right corner of the frame.

TV + SERVICE DATA

3/3

## RF



## MENUS



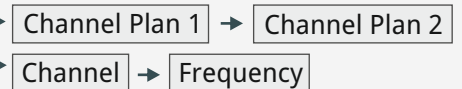
**Tuning**

Channel:

Channel Plan

Tune by:

View all services...



**Tuning**

Frequency:

Channel Plan:

Tune By:

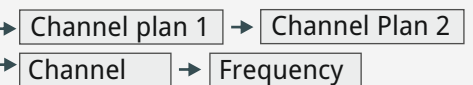
Center Freq:

Ref. Level:

Span:

Center tuned frequency

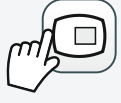
View all services...



**Signal Parameters**

Signal Type:

View Advanced Parameters



### Tools

- Select Service...
- Signal Monitoring
- Explore Channel Plan
- Discover FM Stations
- Field Strength: ☐
- Datalogger ☐
- 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 ☐

Off → On

New... → Test & Go

Antenna → External



### Advanced

- Average: ☐
- Spectrum Line: ☐
- Tone Level: ☐
- Marker: ☐
- Marker Trace: ☐
- Max.Hold: ☐
- Min.Hold: ☐
- Persistence: ☐
- Detector Type:: ☐
- Resolution Bandwidth ☐
- Vertical Range: ☐
- Dashed BW: ☐
- Reference: ☐

Outline → Solid → Transparency

Off → On

Off → On

Normal

Off → Permanent → Curtain

Off → Permanent → Curtain

Off → On

PEAK → RMS

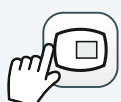
2 kHz → 10 kHz → 20 kHz → 40 kHz → 100 kHz

10 dB/div → 5 dB/div → 2 dB/div → 200 kHz

1 dB/div → 1000 kHz

Off → On

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

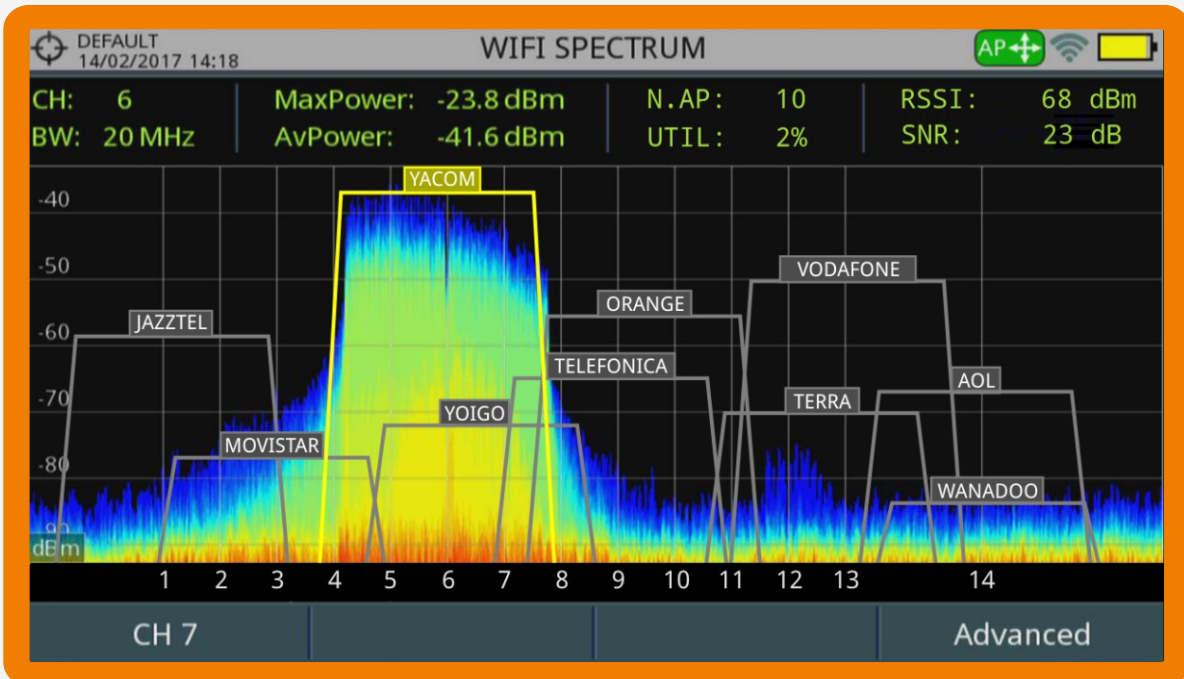
SSID	BSS	CH	RSSI(dBm)	Security	Device
JAZZTEL	01:23:45:67:89:ab	1	-86	WPA	Wireless Router...
MOVISTAR	aa:bb:cc:dd:ee:ff	2	-72	WPA2	WAP6969N
YACOM	98:76:54:32:10:fe	3	-84	WPE	
YOIGO	a1:b2:c3:d4:e5:f6	4	-74	None	
ORANGE	22:44:66:88:ab:cd	5	-70	WPA	
VODAFONE	13:57:92:46:80:31	6	-88	WPA	
ARRAKIS	ca:ac:ed:de:fb:bf	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

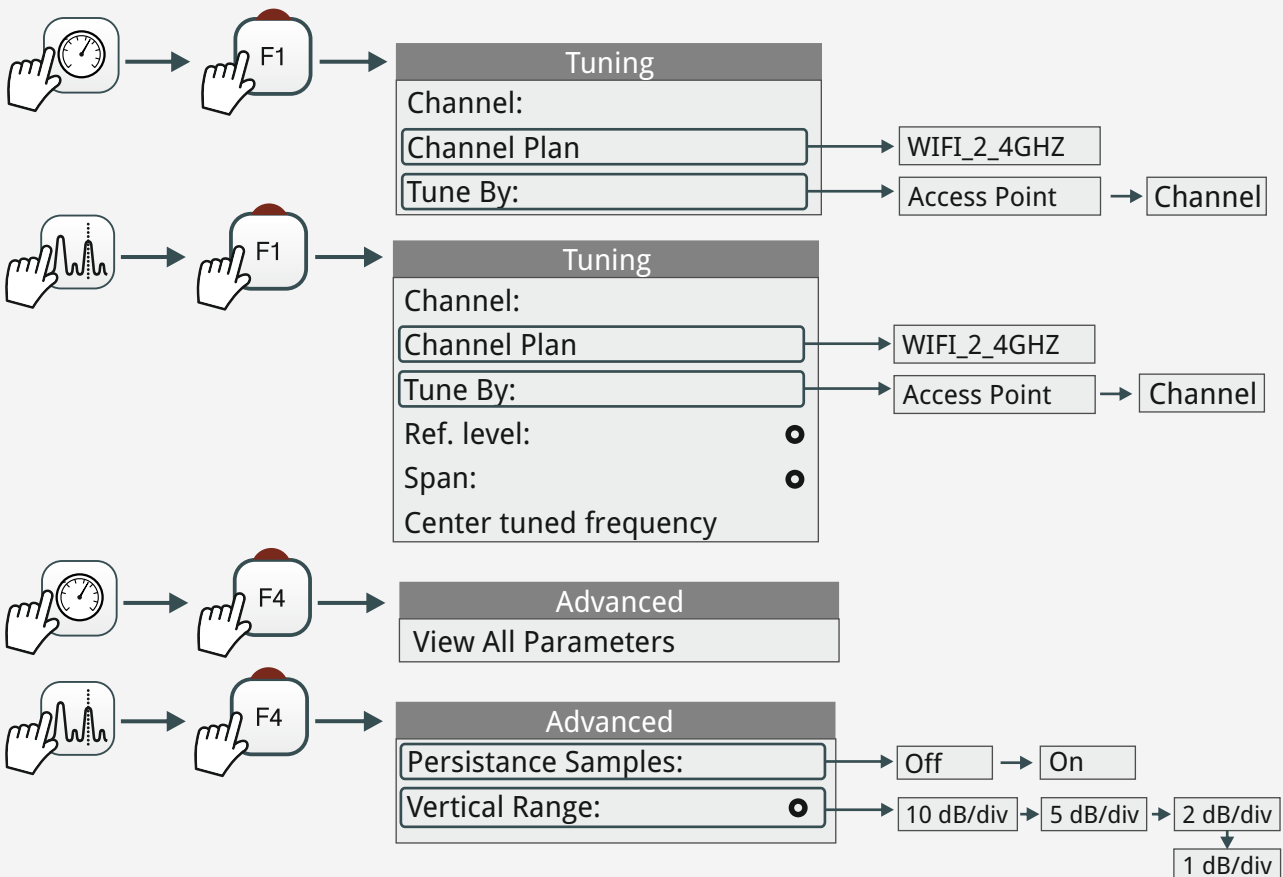
Advanced



## ► WIFI SPECTRUM



## WIFI ► MENUS





## IPTV ip.tv ► SETTINGS

1

ip.tv



2

Settings

Signal Source:

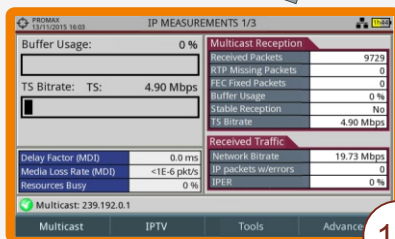
RF

IPTV

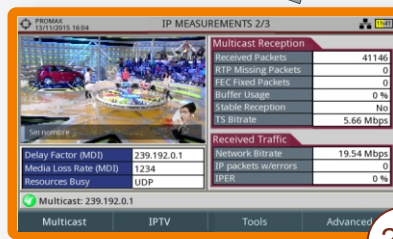
Wi-Fi

## IPTV ip.tv ► SCREENS

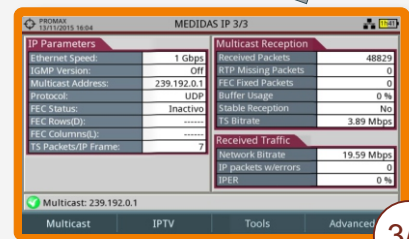
### ► IP MEASUREMENTS



1/3



2/3

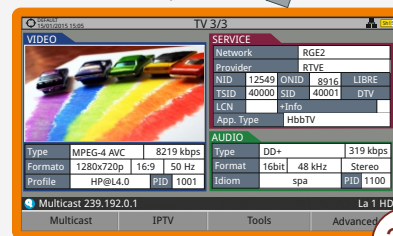


3/3

### ► IPTV



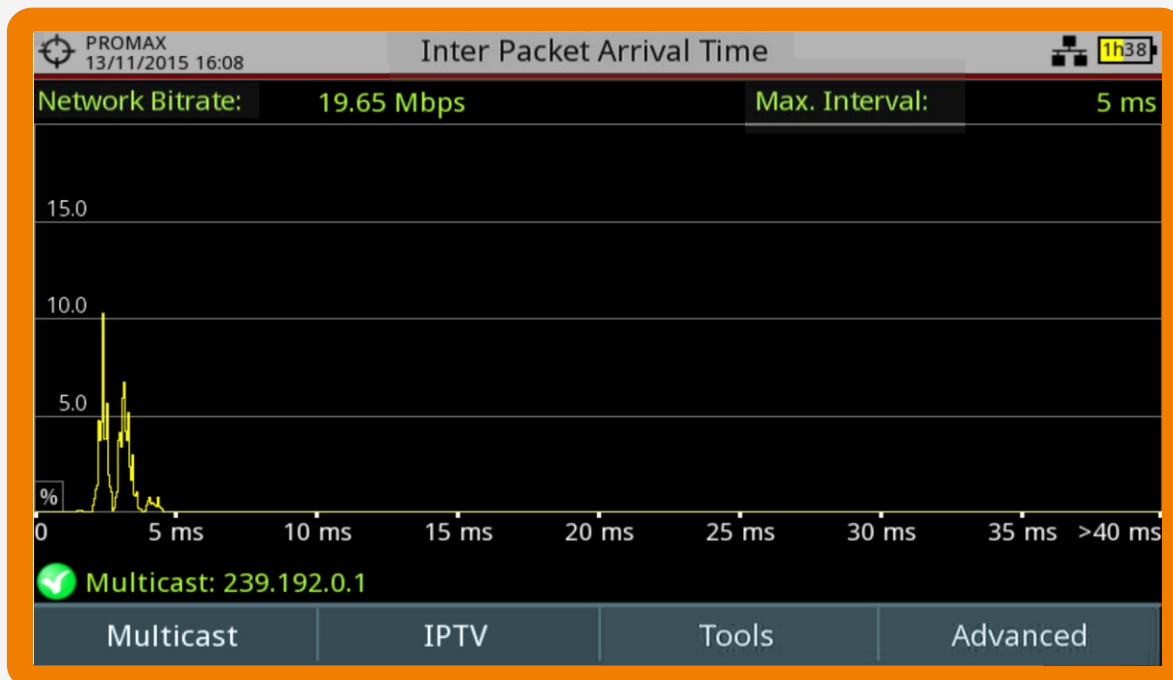
1/3



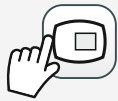
3/3



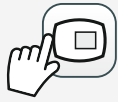
## INTER PACKET ARRIVAL TIME



## IPTV ip.tv MENUS

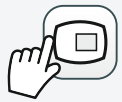


Multicast
Multicast Address
UDP Port:
Recent Multicast Addresses
Discovered Multicast Addresses
IGMPv3 Server Sources

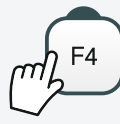


IP Parameters





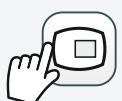
Tools
Select Service...
TS Analyser
TS Recording...
View IP Network Log...
IPTV Graph Inter Packet Arrival Time
IP Ethernet Frame Viewer
Ping and delay measurements..
Task Planner...



Advanced
Reset IP measures



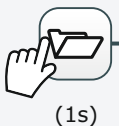
Advanced
Span
Restart analysis



Advanced
Audio
Discovered URLs
TS Data



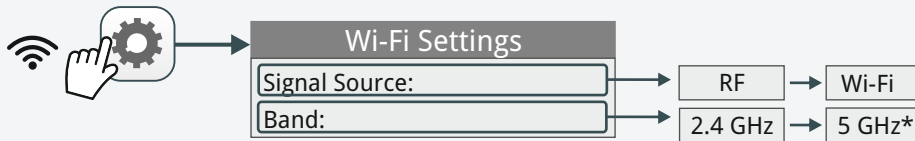
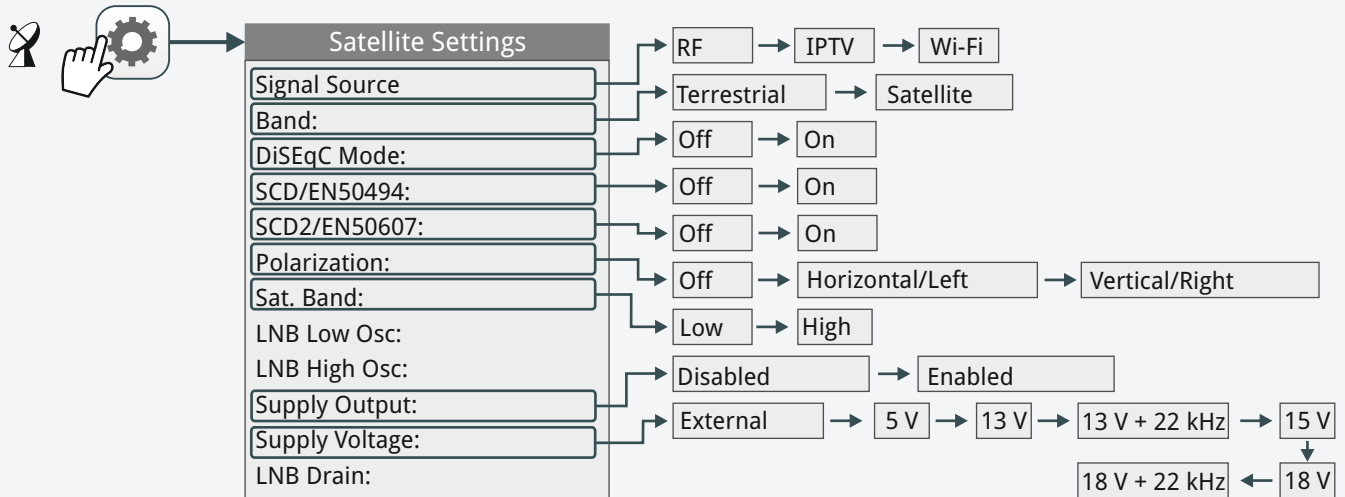
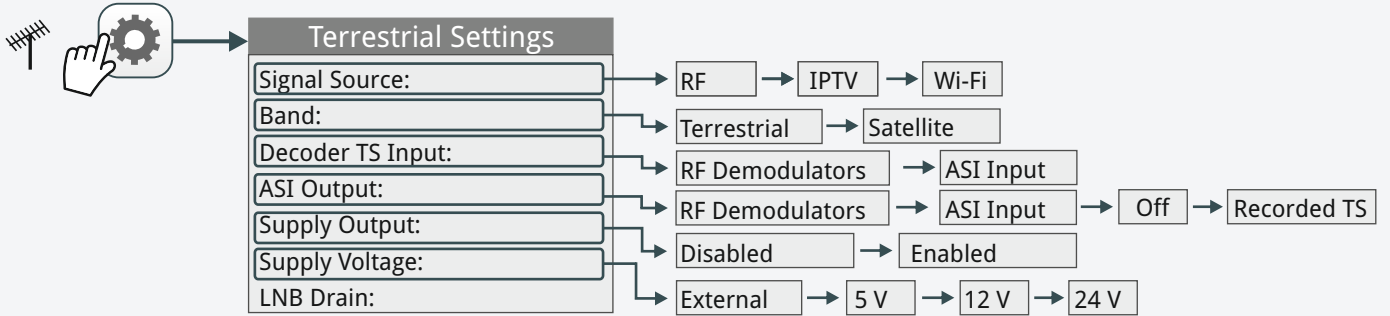
## PREFERENCES MENU



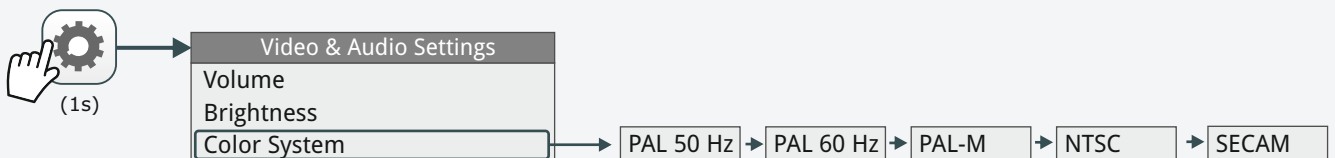
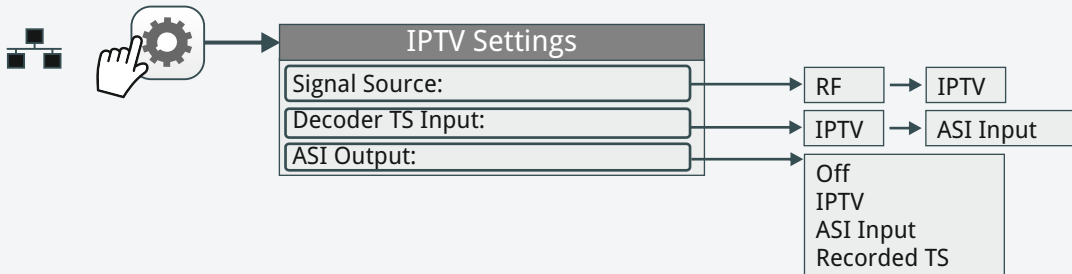
Preferences	Provider Name	SN Release	Date Free System Memory	Free Data Memory Company	User
Equipment	Language:	Power Off	TFT Screen	Vibration::	Values Format:
Appearance	Skin:	Brightness	Color System	Boot screen:	
Time & Date	Date:	Time:	Date Format:	Time Zone:	
Measures	Terrestrial Units:	Sat. Band:	Min. TER. Power:	Min. FM. Level:	
Tools	Satellite Units:	Ref. Level:	Min. SAT. Power:	Inp. Impedance:	
Stealth-ID	Optical Units:	Terr. Downlink:	Min. TER. Level:		
Security	Datalogger PSI:	Export button:	LTE Filter F. Max:		
IPTV	Database services:	LTE Filter F. Min:	Center Freq:		
Network	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:
	MAC:	DHCP:	IP Address:	Mask:	Gateway:



## SETTINGS MENU

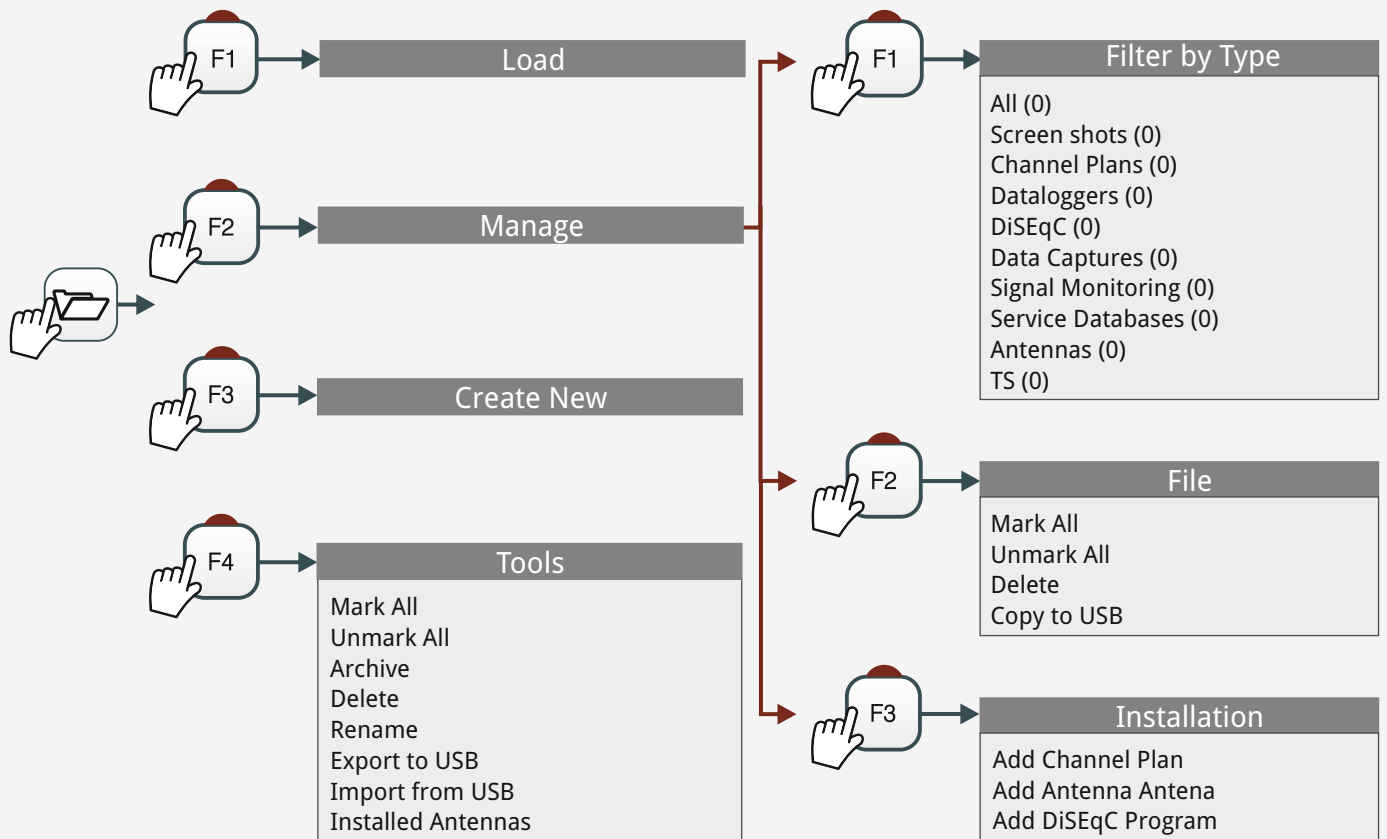


(\* Only available for 5 GHz WiFi option)

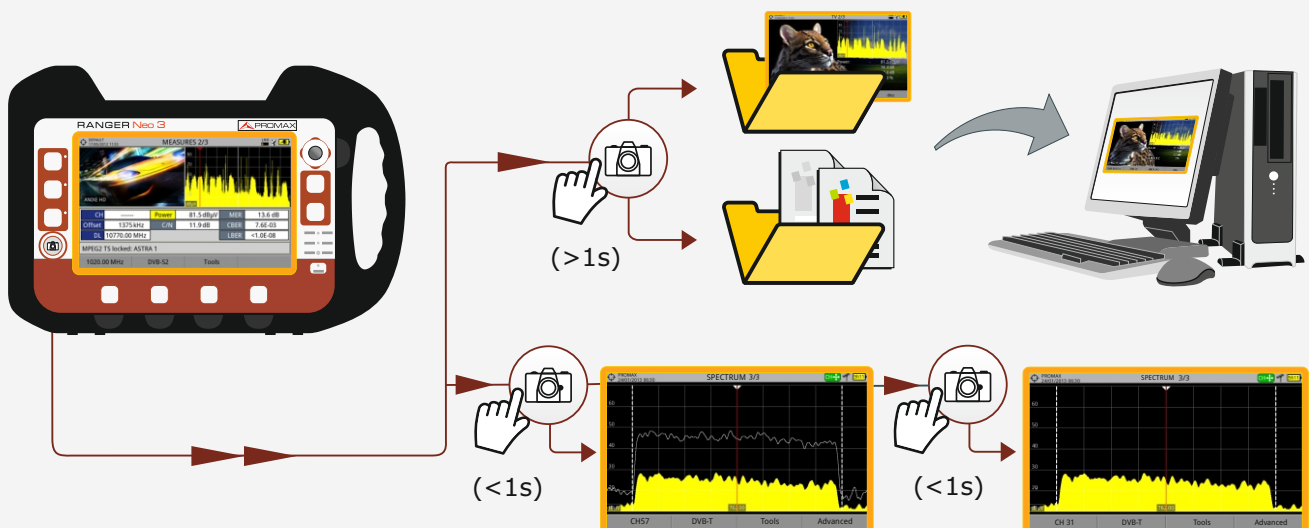




## ► INSTALLATION MANAGEMENT



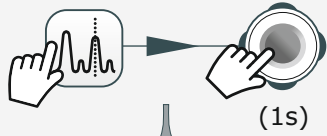
## ► EXPORT\* IMAGE / DATA / SPECTRUM REFERENCE



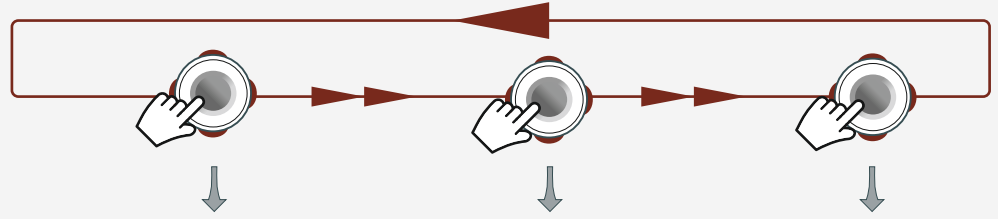
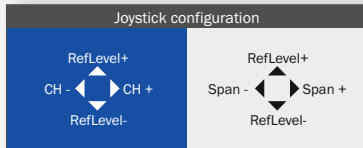
\* Export settings in Preferences



## ▶ JOYSTICK



(1s)



AP ↕

Access Point  
change

FR ↕

Frequency  
tuning

CH ↕

Channel  
tuning

SP ↕

SPAN  
Change

MK ↕

Marker moving  
(Marker ON)

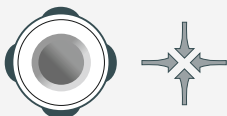
## PARAMETER EDITION



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 ●



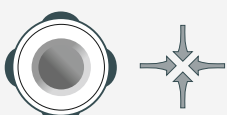
Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



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 ●

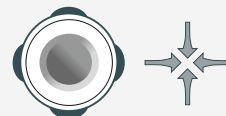
## PARAMETER SELECTION



Advanced	
Average	0 ●
Spectrum Line	Outline ▾



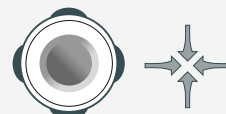
Advanced	
Average	0 ●
Spectrum Line	Outline ▾



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



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

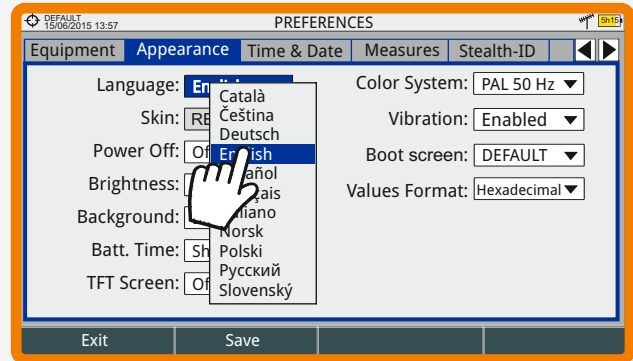
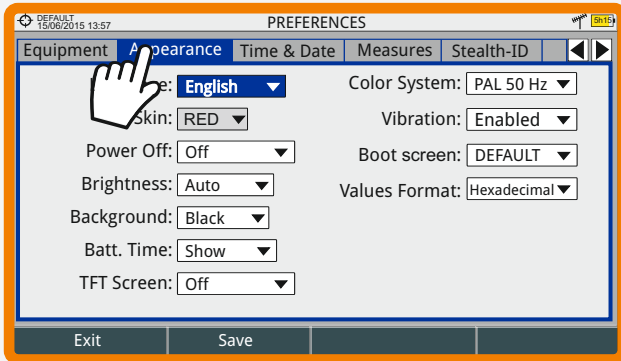


Advanced	
Average	0 ●
Spectrum Line	Solid ▾

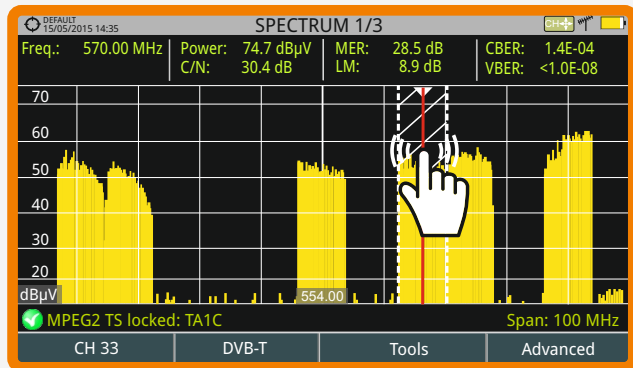
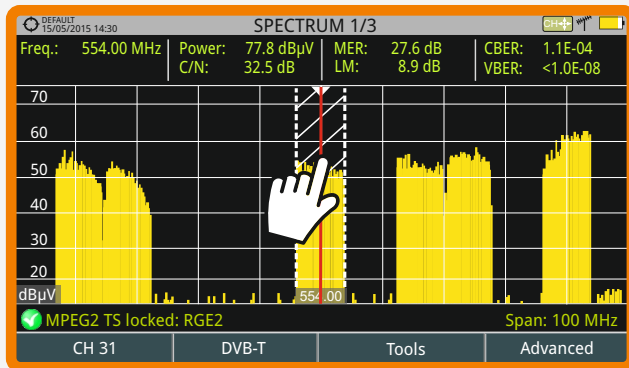


## TOUCH SCREEN

### MENU SELECTION



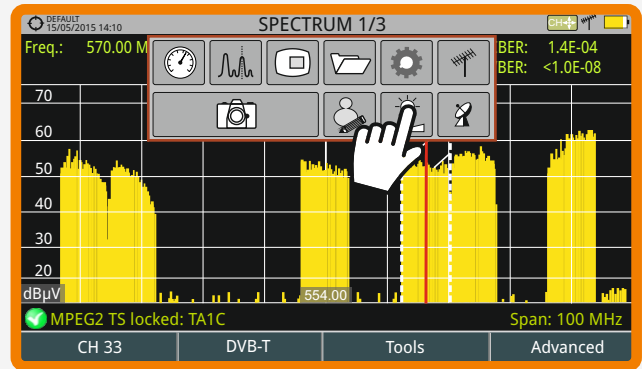
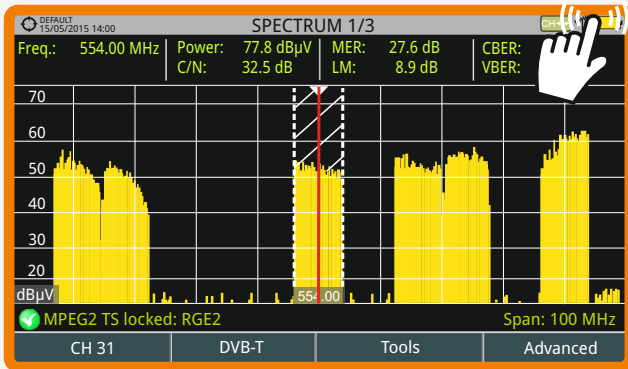
### FREQUENCY SELECTION



### VIRTUAL KEYBOARD WRITING



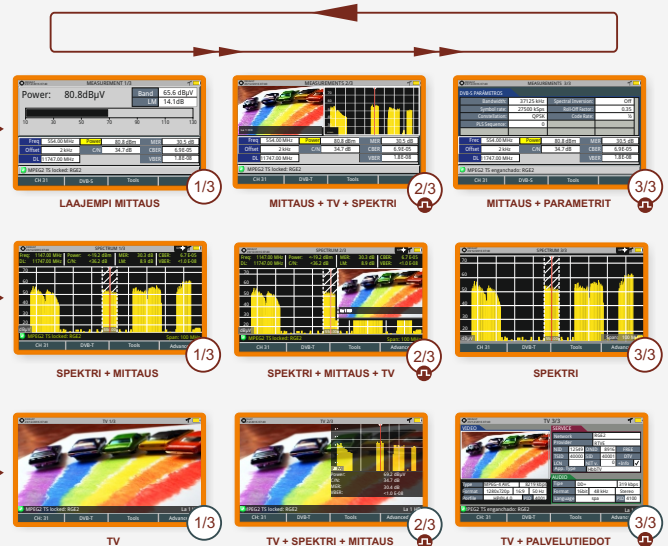
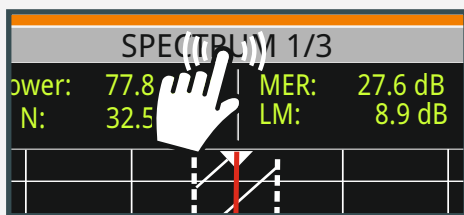
## TOOLBAR



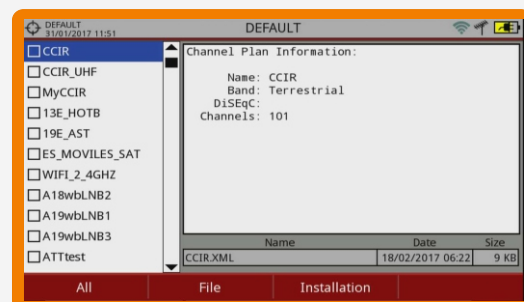
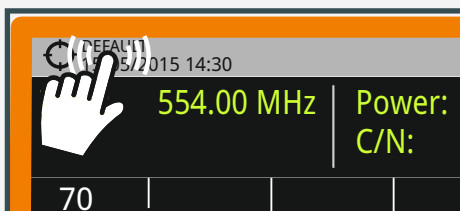
## TOOLBAR ICONS

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

## MODE SCREENS

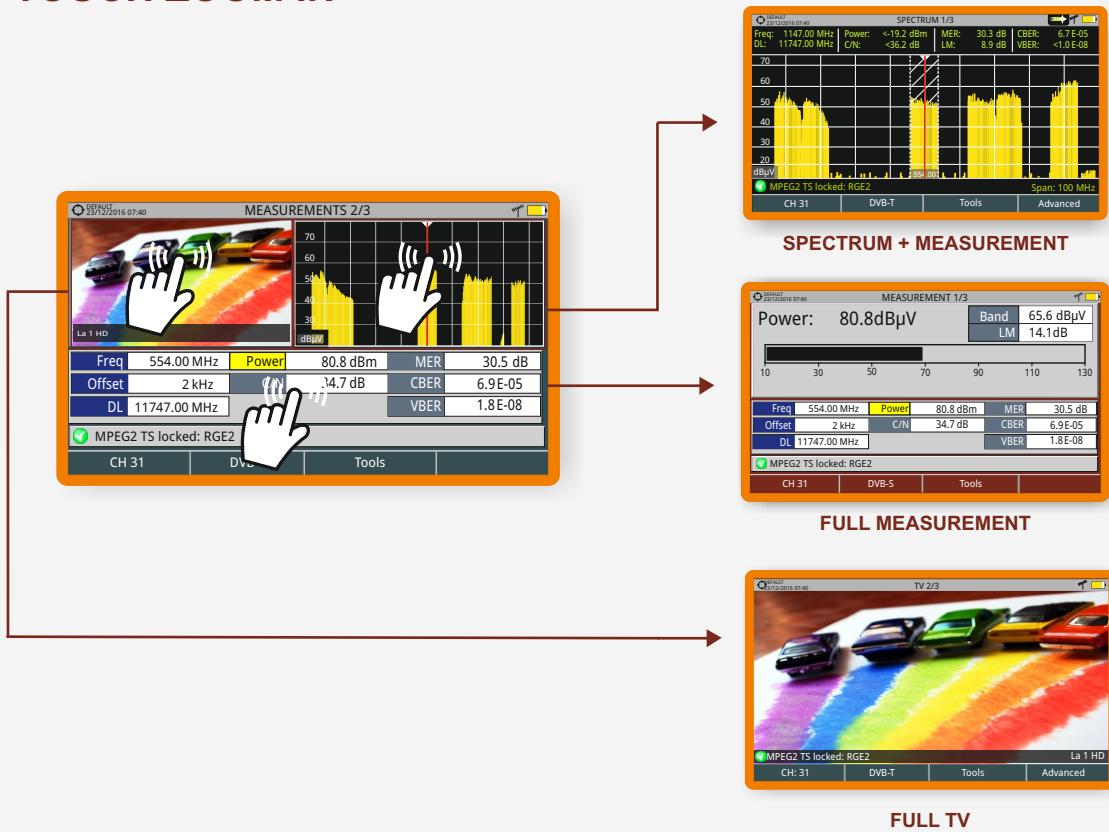


## INSTALLATIONS MANAGEMENT

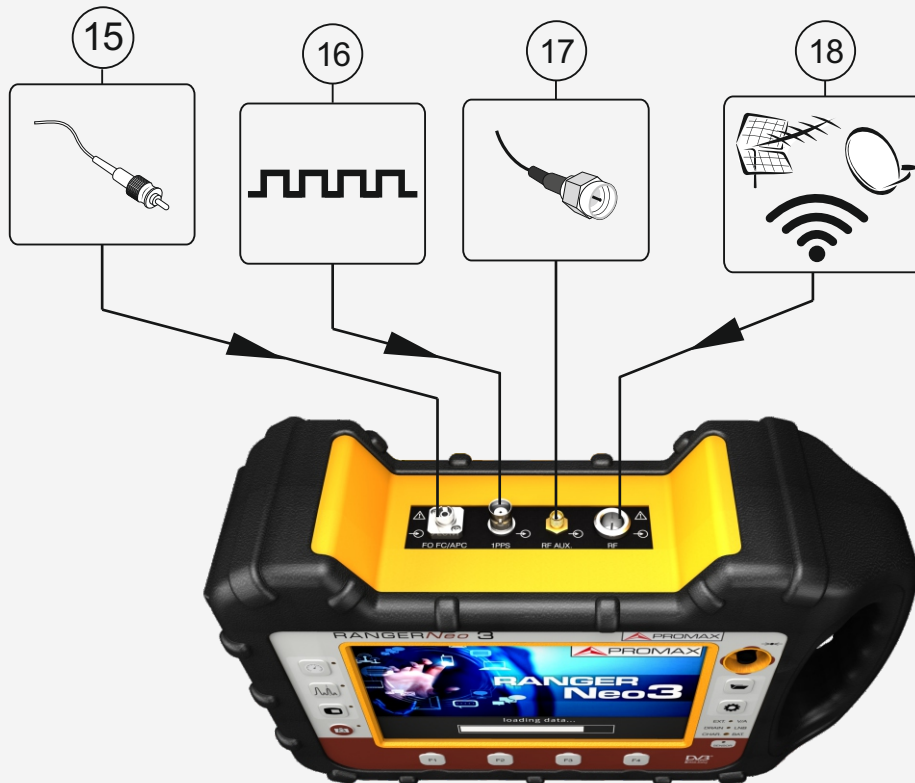




## ► ONE-TOUCH ZOOM IN



## TOP VIEW



- 15 FC-APC liitin (optinen tulo) \*  
 16 1PPS (pulse per second) tuloliitin  
 17 SMA-liitin (RF aux-tulo)\*  
 18 RF-tulo

\*Optinen optio. Ota yhteyttä jälleenmyyjään.

## SIDE VIEW



- 18 Power input connector
- 19 ETHERNET connector
- 20 ON/OFF button
- 21 Video/Audio input
- 22 ASI-TS input

- 23 ASI-TS output
- 24 HDMI output
- 25 USB connectors
- 26 ETHERNET connector for PC (NetUpdate)
- 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).

