

FRONT VIEW



- | | | |
|---|--|------------------------------------|
| 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

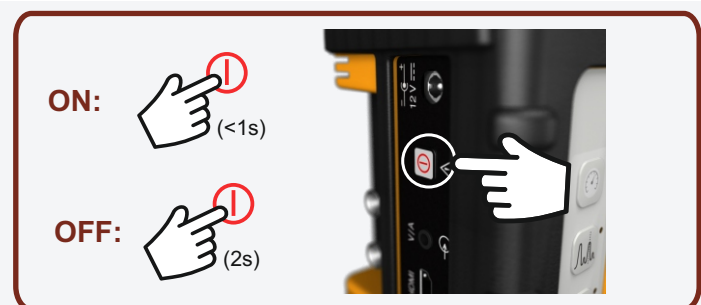
- DIGITAL TV service** **HD High Definition TV service**
- Digital radio** **Data** **Scrambled service**

DIALOG BOXES

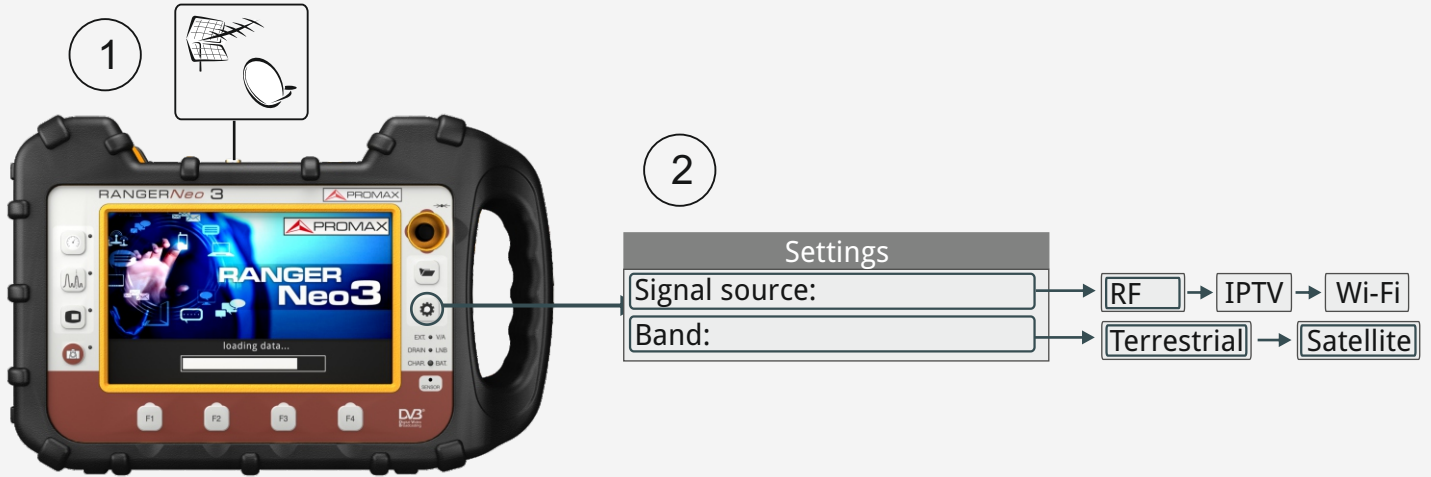
- Error message** **OK message**
- Question message** **Warning message**

VIDEO & AUDIO SETTINGS MENU

- TFT backlight brightness** **Volume**

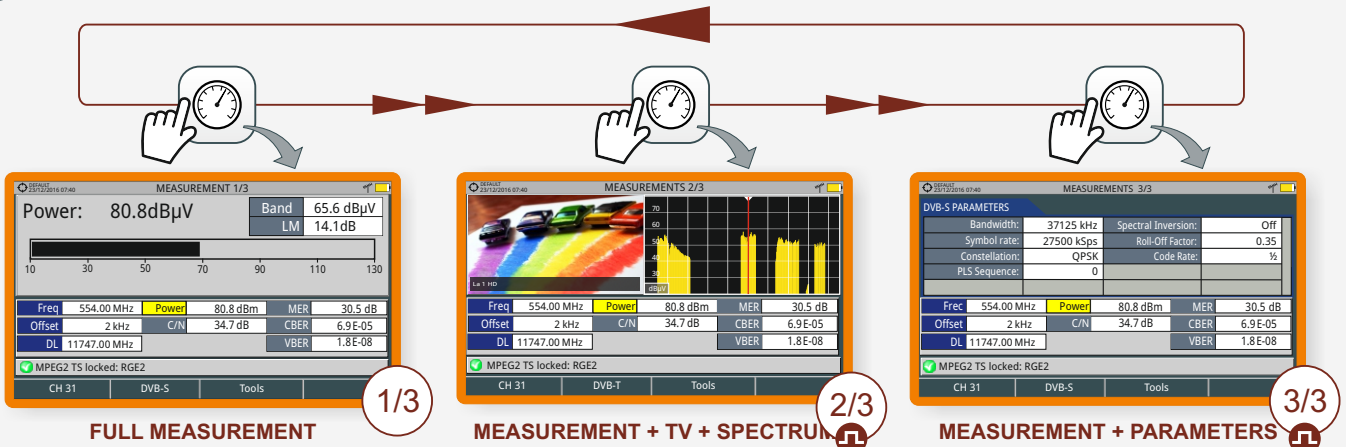


RF ► SETTINGS

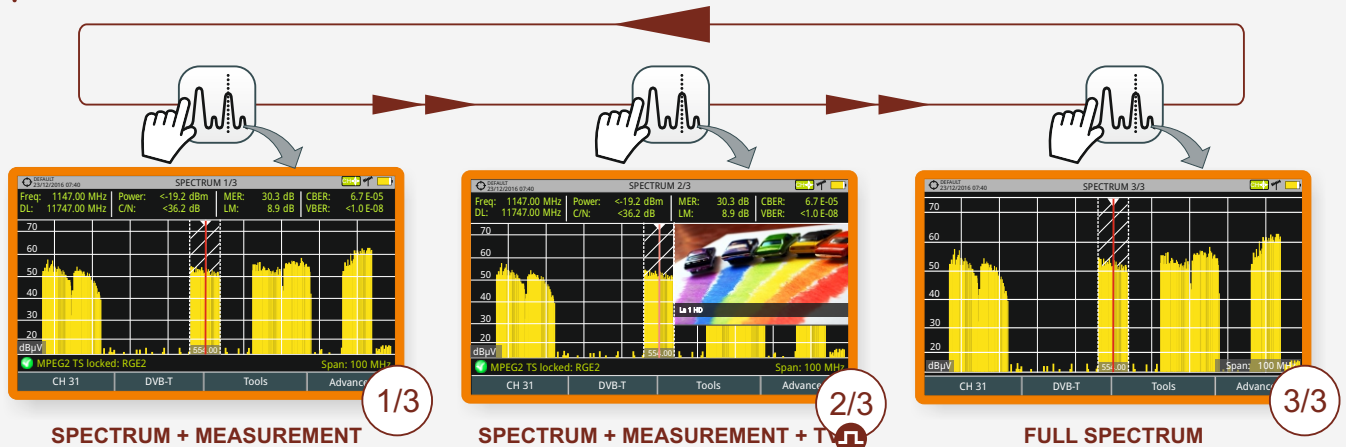


RF ► SCREENS

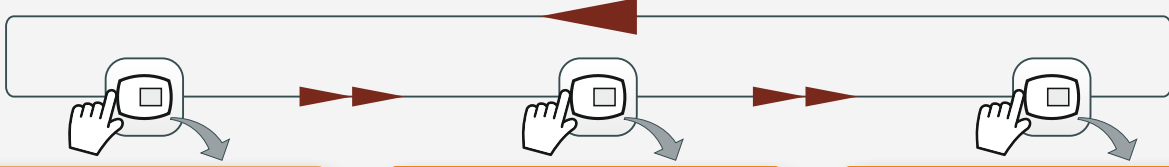
► MEASUREMENT



► SPECTRUM ANALYSER

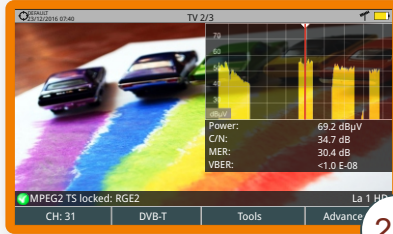


TV MODE



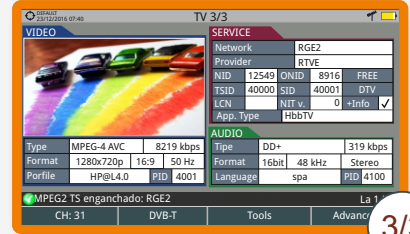
FULL TV

1/3



TV + SPECTRUM + MEASUREMENTS

2/3



TV + SERVICE DATA

3/3

RF MENUS



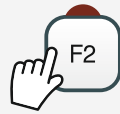
Tuning

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



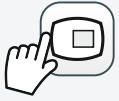
Tuning

- 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:
- Tone Level:
- Marker: Normal
- Marker Trace: Off Permanent Curtain
- Max.Hold: Off Permanent Curtain
- Min.Hold: Off On
- Persistence:
- Detector Type:: PEAK RMS
- 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
- Dashed BW: Off On
- Reference: Set Clear

Outline Solid Transparency

Off On

Off On

Normal

Off Permanent Curtain

Off Permanent Curtain

Off On

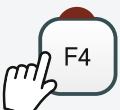
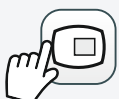
PEAK RMS

2 kHz 10 kHz 20 kHz 40 kHz 100 kHz

10 dB/div 5 dB/div 2 dB/div 1 dB/div

Off On

Set Clear



Advanced

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

4:3 16:9

WIFI ► SETTINGS



WIFI ► SCREENS

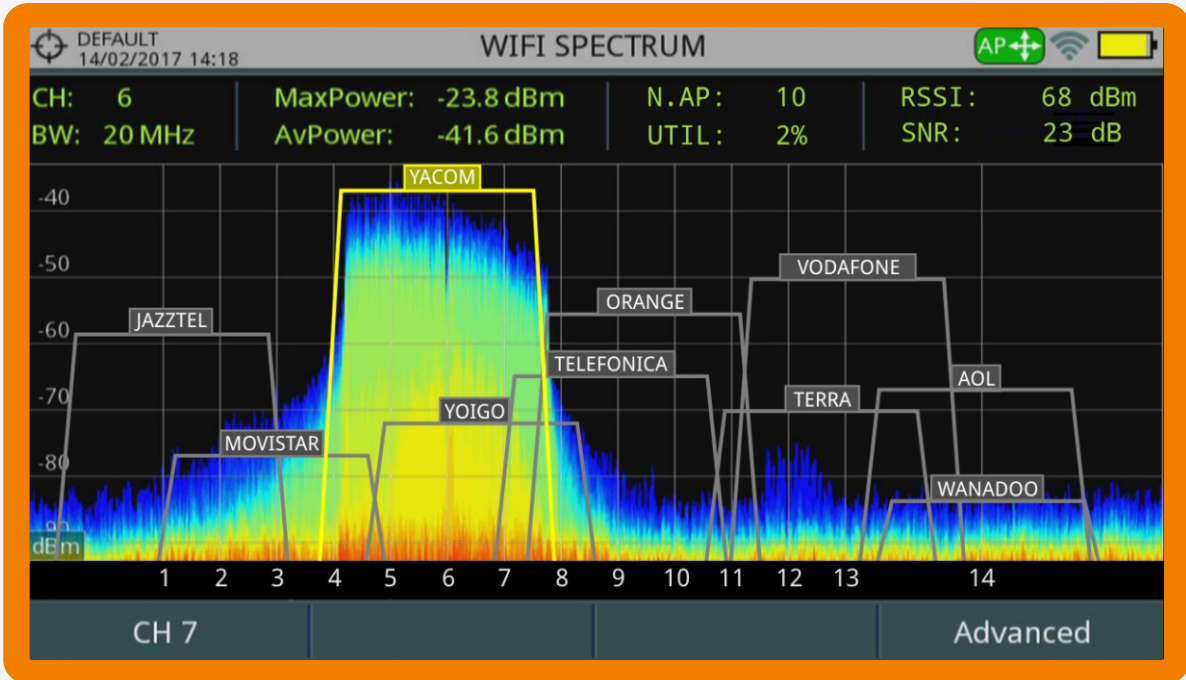
► SITE SURVEY

| 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 | | | |

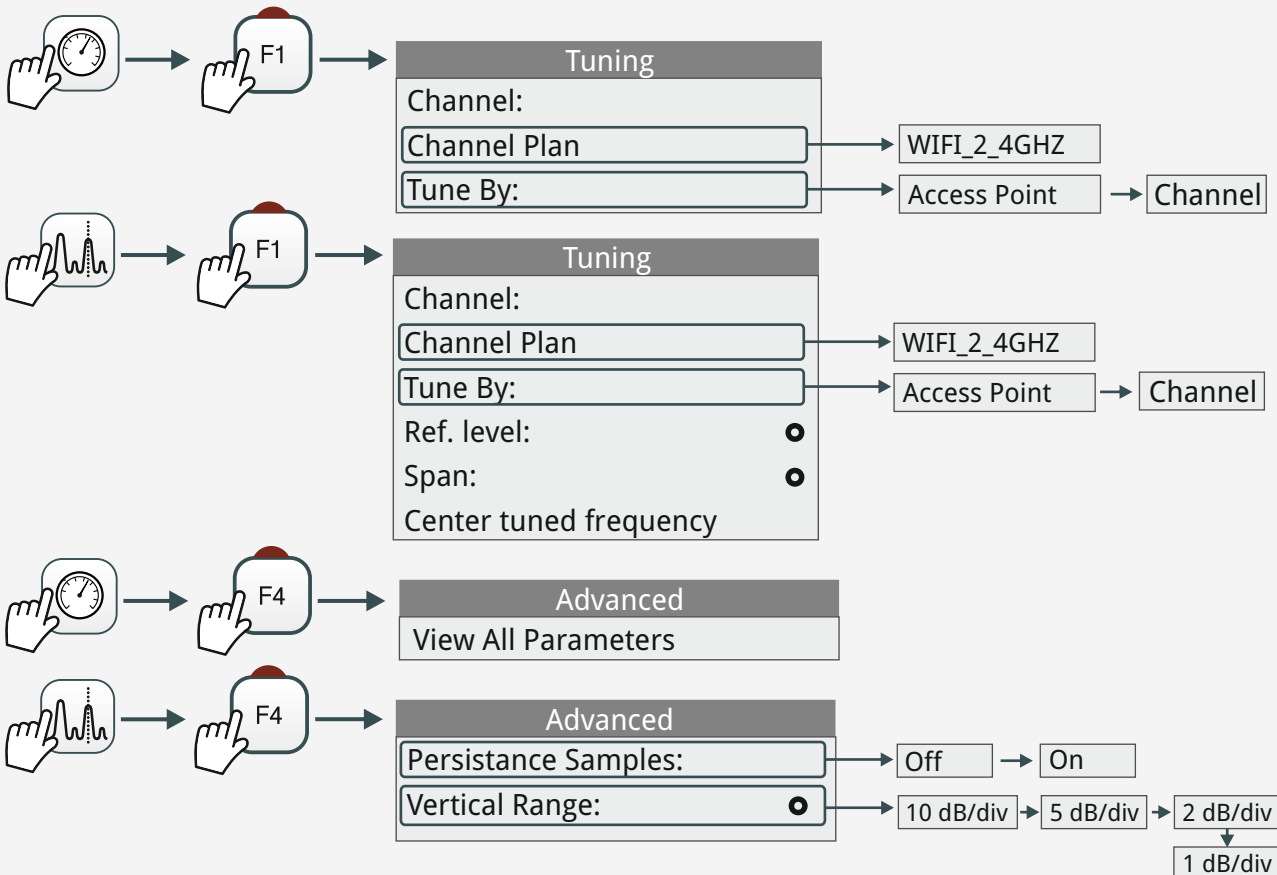
CH 1 | Advanced



WIFI SPECTRUM



WIFI ► MENUS



IPTV ip.tv ▶ SETTINGS



IPTV ip.tv ▶ SCREENS

▶ IP MEASUREMENTS

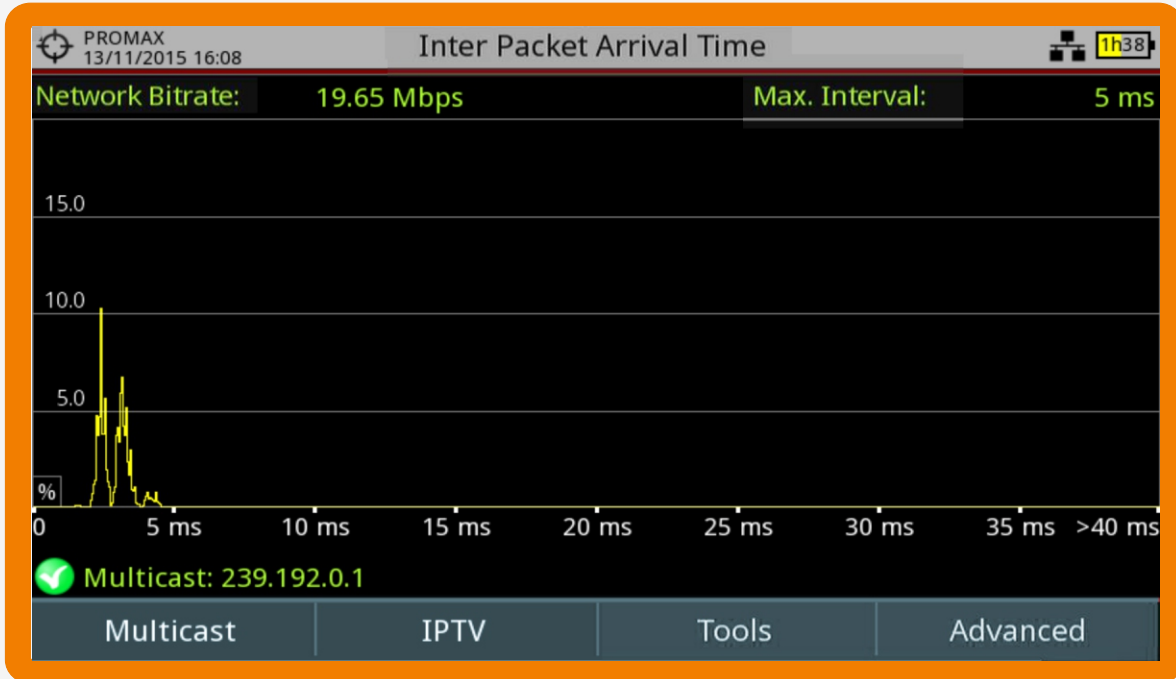


▶ IPTV

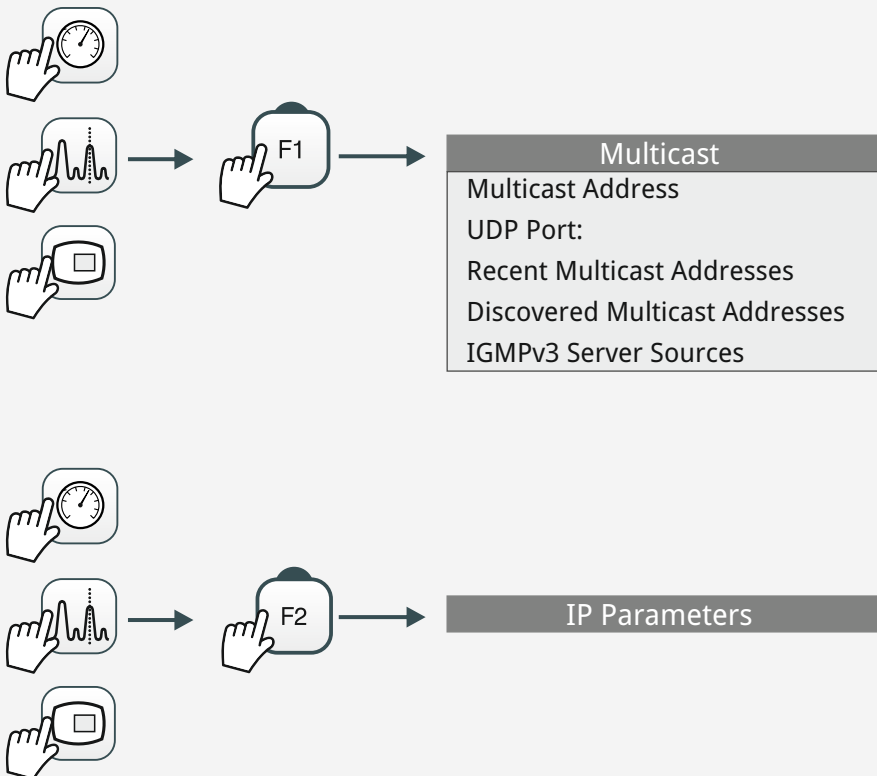


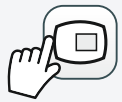


INTER PACKET ARRIVAL TIME

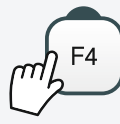


IPTV ip.tv ► MENUS





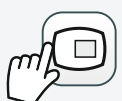
| Tools | |
|--------------------------------------|--|
| Select Service... | |
| TS Analyser | |
| TS Recording... | |
| View IP Network Log... | |
| IPTV Graph Inter Packet Arrival Time | |
| IP Ethernet Frame Viewer | |
| Ping and delay measurements.. | |
| Task Planner... | |



| Advanced | |
|-------------------|--|
| Reset IP measures | |



| Advanced | |
|------------------|--|
| Span | |
| Restart analysis | |



| Advanced | |
|-----------------|--|
| Audio | |
| Discovered URLs | |
| TS Data | |



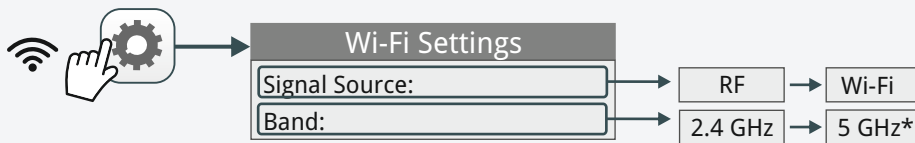
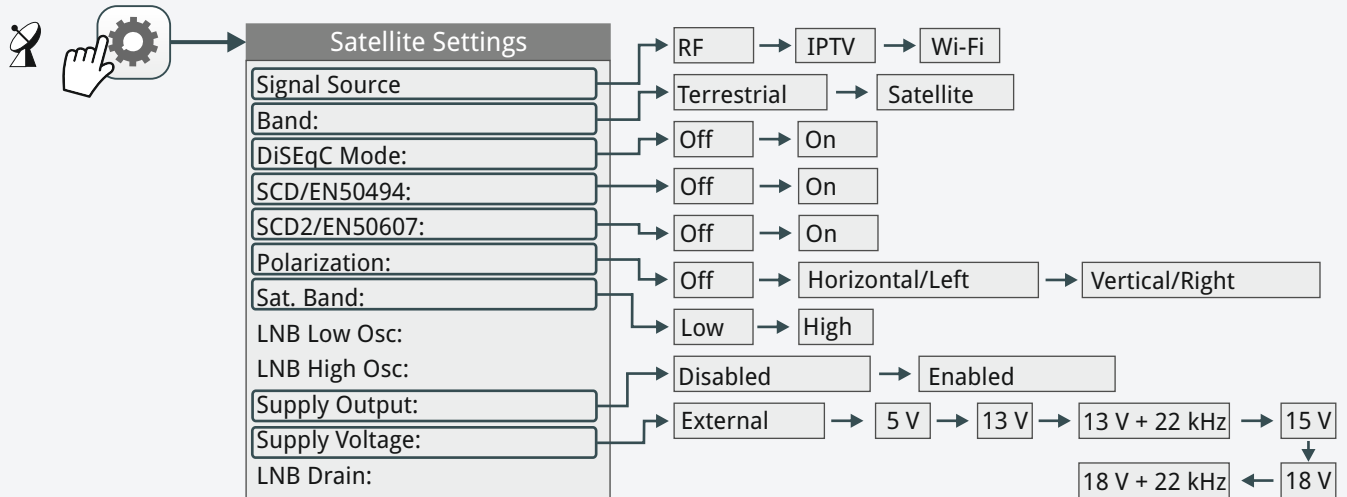
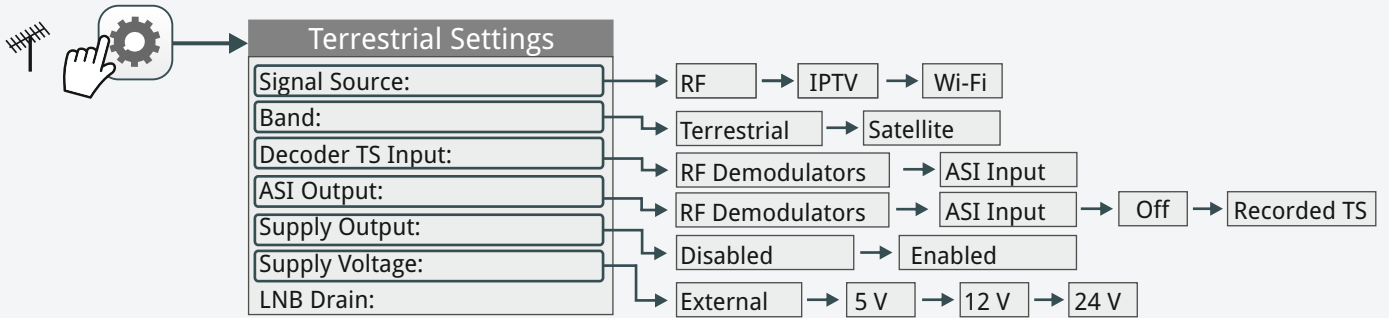
▶ PREFERENCES MENU



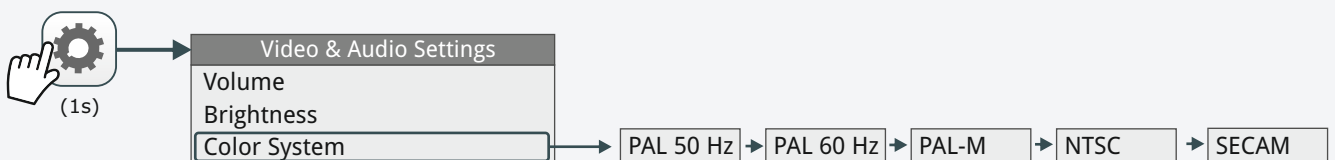
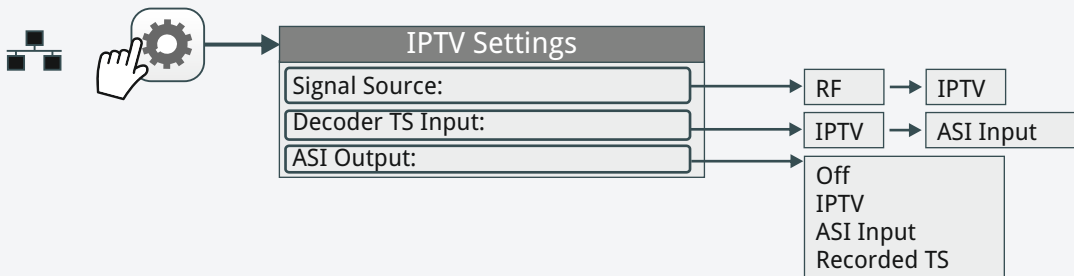
(1s)

| Preferences | |
|-------------|---|
| 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: |

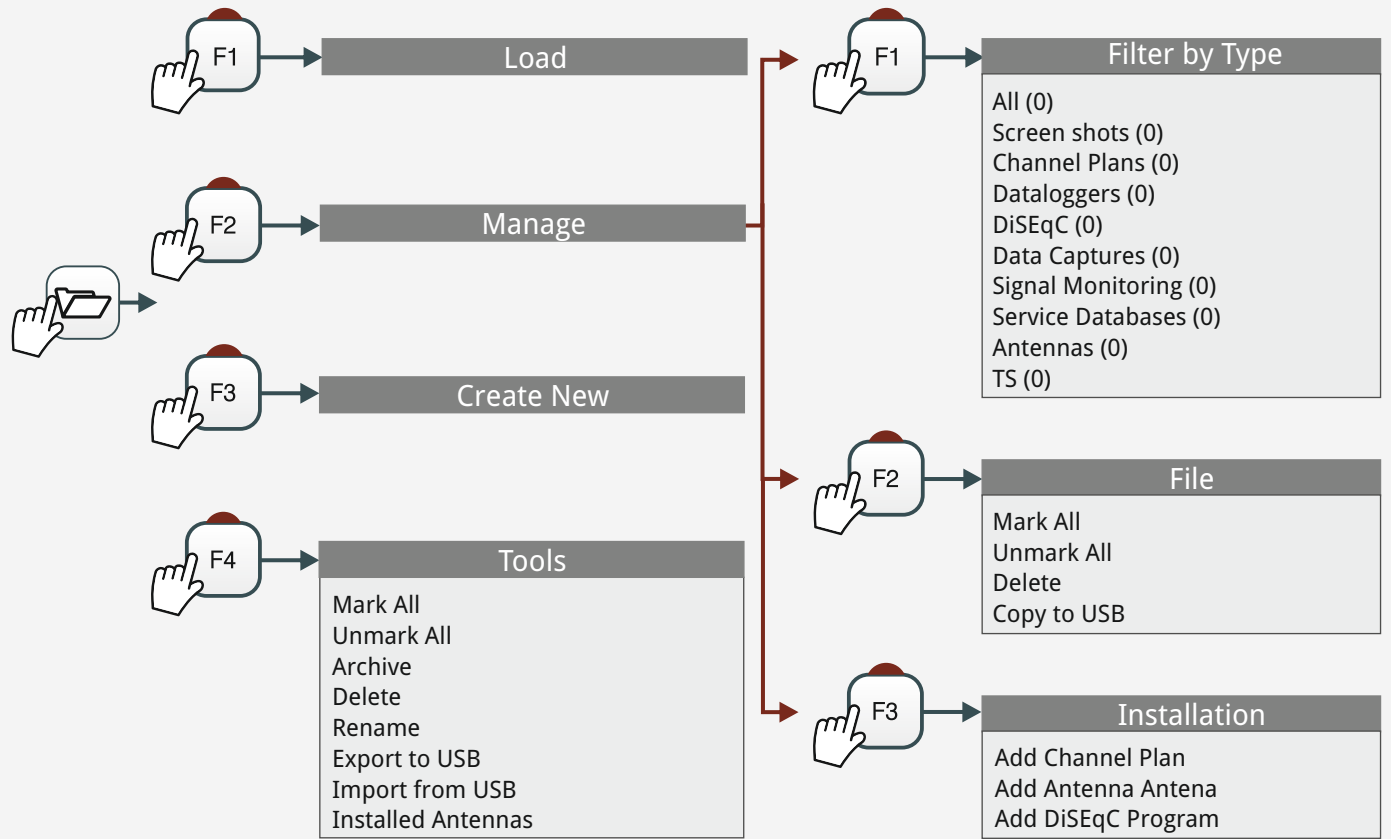
SETTINGS MENU



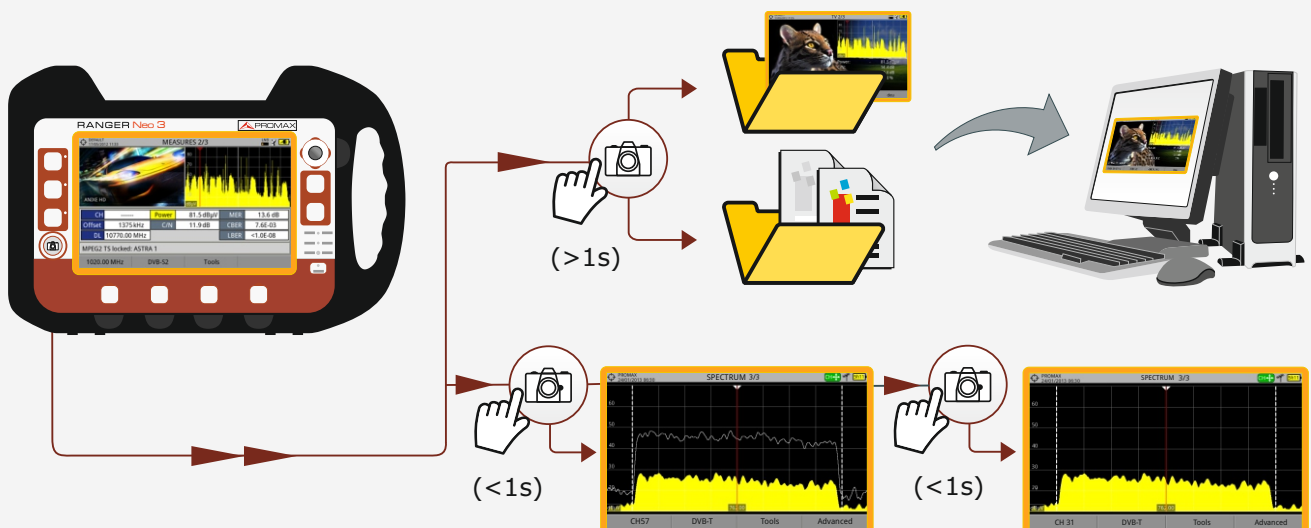
(* Only available for 5 GHz WiFi option)



INSTALLATION MANAGEMENT



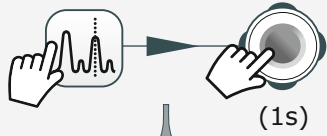
EXPORT* IMAGE / DATA / SPECTRUM REFERENCE



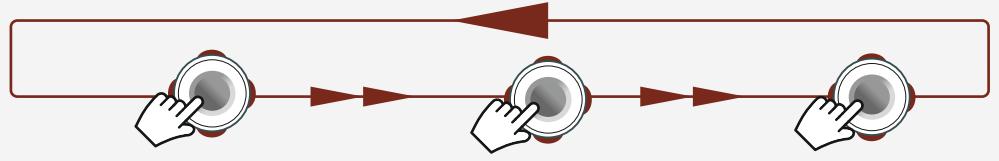
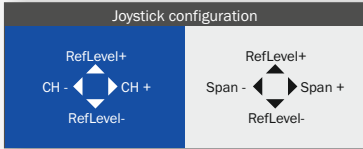
* Export settings in Preferences



▶ JOYSTICK



(1s)



AP ↕

Access Point
change

FR ↕

Frequency
tuning

CH ↕

Channel
tuning

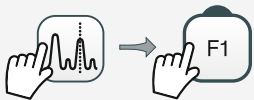
SP ↕

SPAN
Change

MK ↕

Marker moving
(Marker ON)

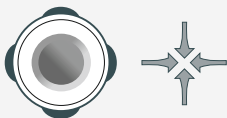
PARAMETER EDITION



| 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 ● |



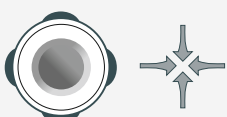
| Tuning | |
|--------------|--------------|
| Channel: | 44 |
| Channel Plan | CCIR ▶ |
| Tune By: | Channel ▶ |
| Center Freq: | 658.00 MHz ● |



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

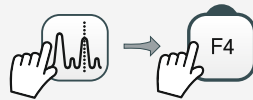


| Tuning | |
|--------------|--------------|
| Channel: | 44 |
| Channel Plan | CCIR ▶ |
| Tune By: | Channel ▶ |
| Center Freq: | 658.10 MHz ● |



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

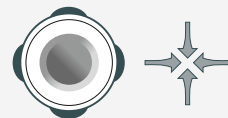
PARAMETER SELECTION



| Advanced | |
|---------------|-----------|
| Average | 0 ● |
| Spectrum Line | Outline ▾ |



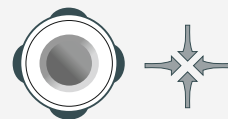
| Advanced | |
|---------------|-----------|
| Average | 0 ● |
| Spectrum Line | Outline ▾ |



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



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

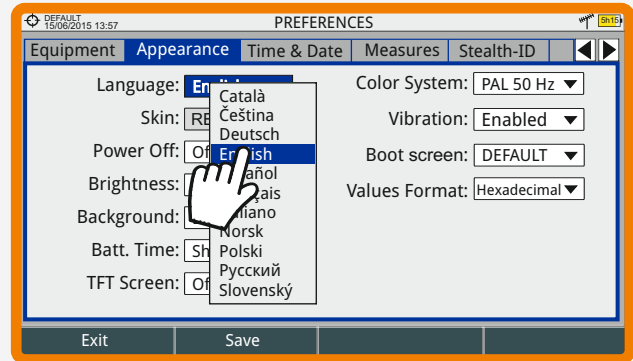
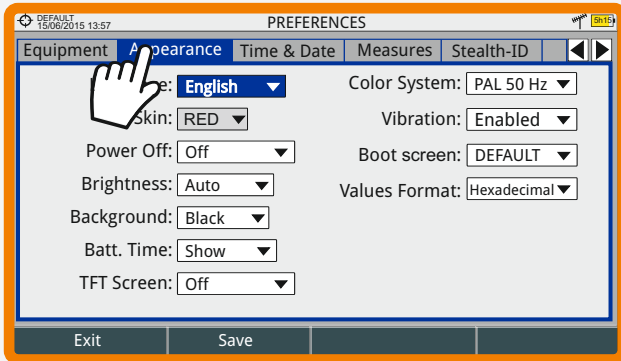


| Advanced | |
|---------------|---------|
| Average | 0 ● |
| Spectrum Line | Solid ▾ |

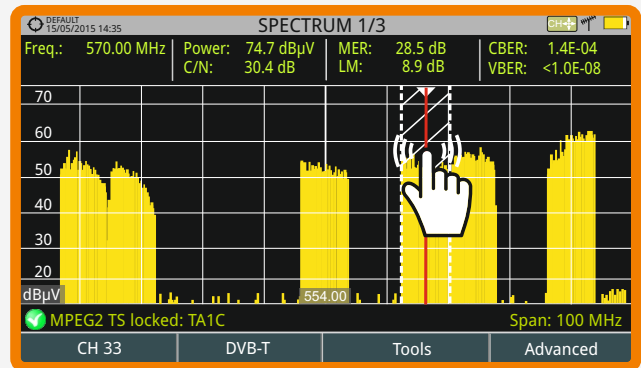
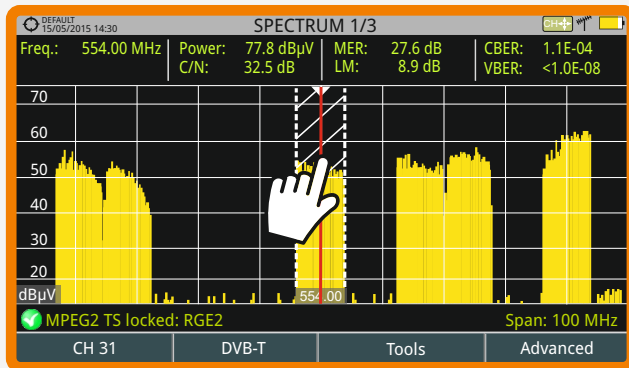


TOUCH SCREEN

MENU SELECTION



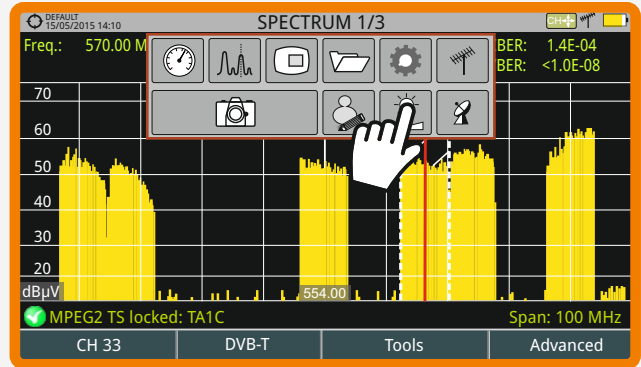
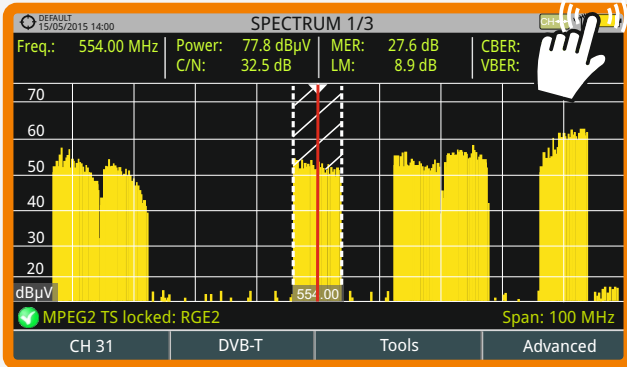
FREQUENCY SELECTION



VIRTUAL KEYBOARD WRITING



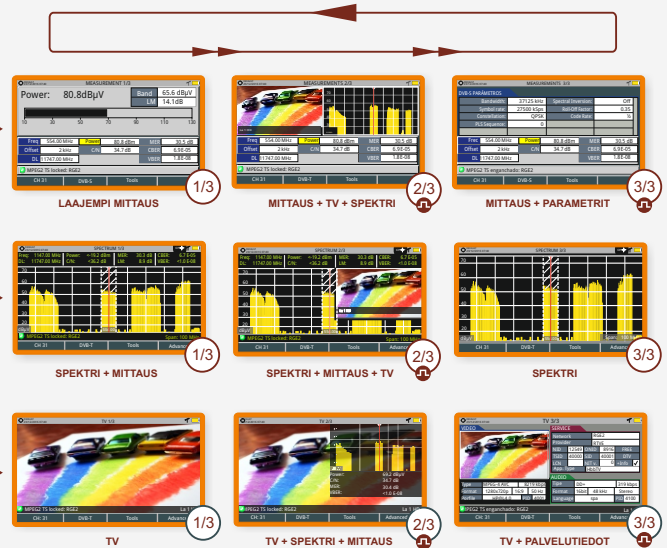
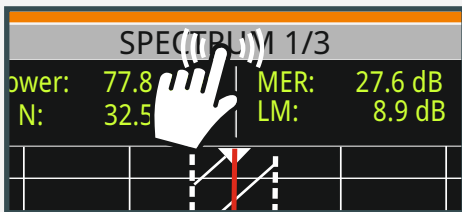
▶ TOOLBAR



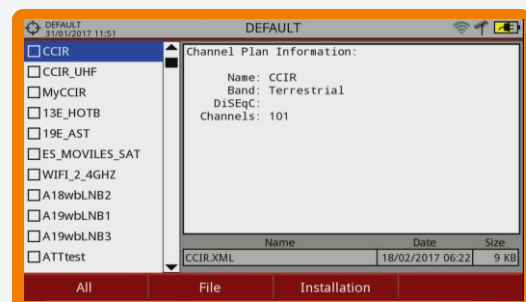
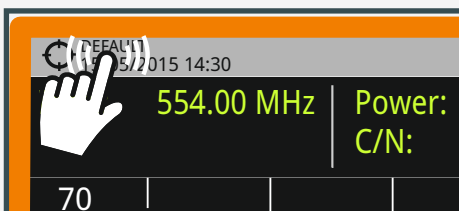
TOOLBAR ICONS

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

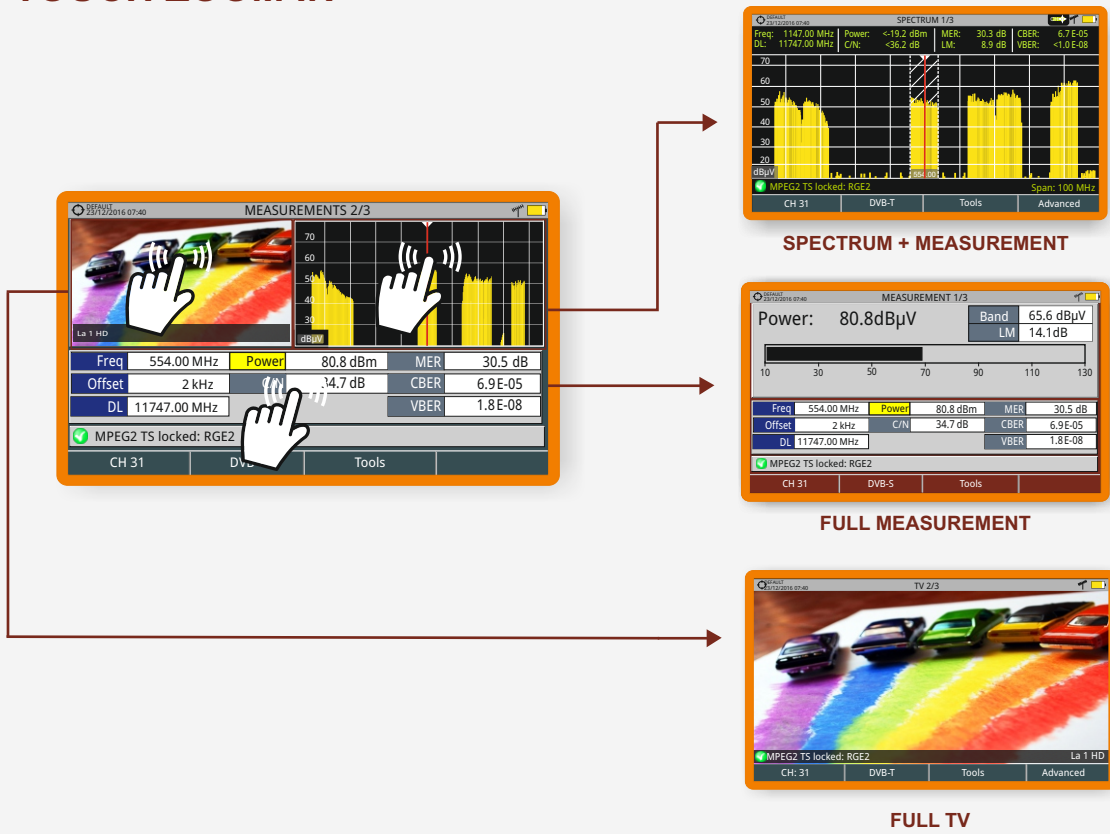
▶ MODE SCREENS



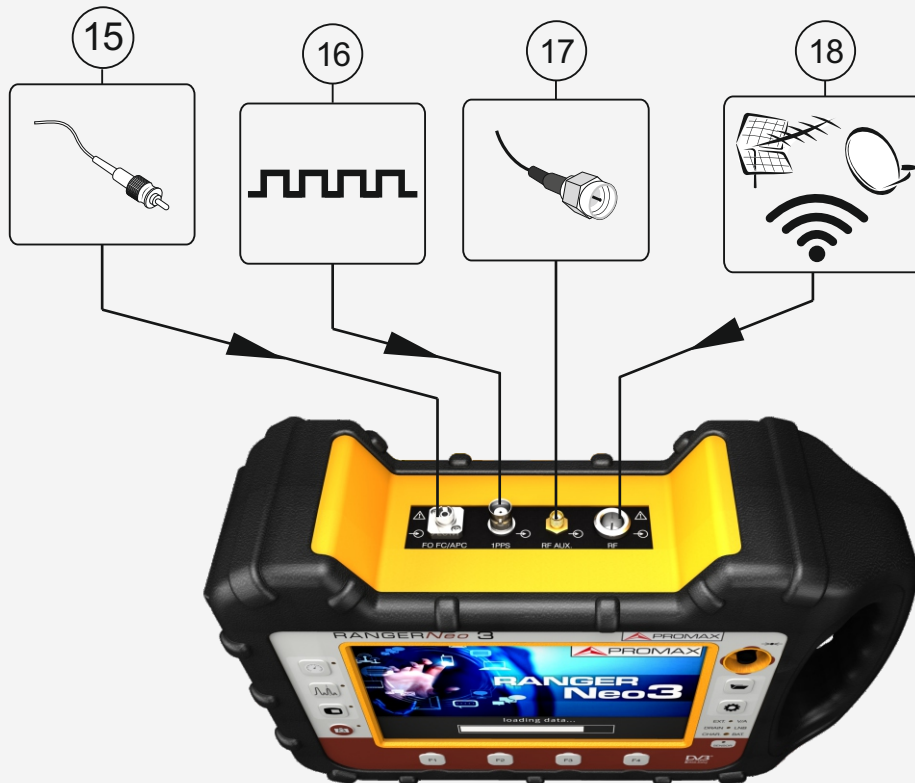
▶ INSTALLATIONS MANAGEMENT



▶ ONE-TOUCH ZOOM IN



TOP VIEW



15 **FC-APC connector**
(optical signal input) *

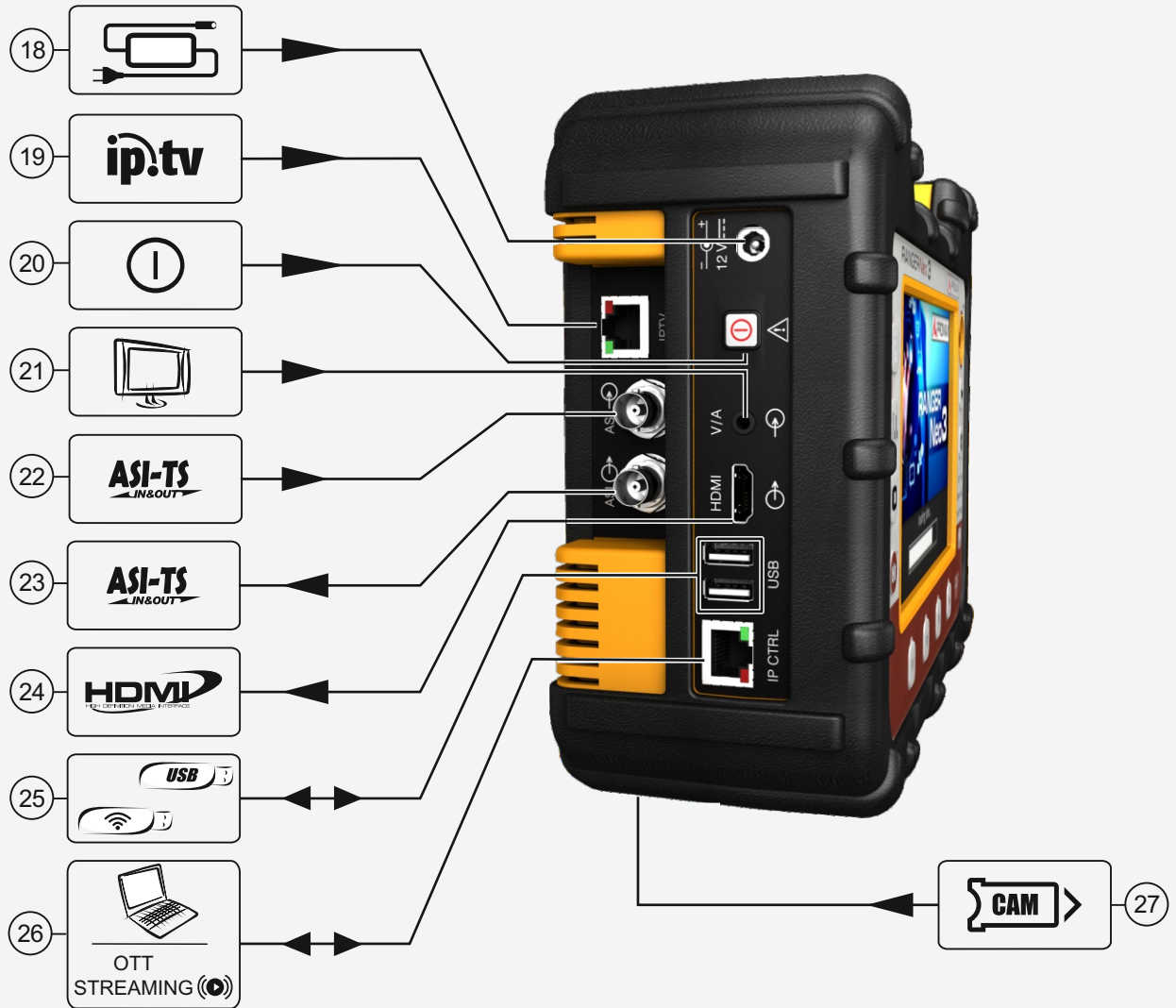
16 **1PPS (pulse per second)**
input connector

17 **SMA connector**
(RF aux. Input signal) *

18 **RF input connector**

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

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).

