

FRONT VIEW



① Status LED
 ② CAM* module input connector (Only available for PROWATCHNeo 2)

Green LED	Green LED (flashing)	Orange LED	Orange LED (flashing)	Red LED
Working	Active Monitoring	In service mode	Updating	Fault

REAR VIEW



③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

- ③ **Power** input connector
- ④ **Fuses**
- ⑤ **Power** input connector
- ⑥ **IPTV** Ethernet connector (Only available for PROWATCHNeo 2)
- ⑦ **ASI** Input (Only available for PROWATCHNeo 2)
- ⑧ **ASI** Output (Only available for PROWATCHNeo 2)
- ⑨ **ETHERNET** connector for (NetUpdate / Streaming VA / Webserver**)
- ⑩ **USB** Connector
- ⑪ **HDMI** Output
- ⑫ **Video / Audio** Input
- ⑬ **Reset / Updates** Button
- ⑭ **RF** Input connector

* not included ** password : Password

▶ LOAD DEFAULT CONFIGURATION

Default IP address:

- From 26.8 firmware : 10.8.8.188
- Previous to 26.8 firmware: 10.0.6.198



1



1 Press + 2 Switch On + 3 Drop

Orange Status LED (service mode)

2

Press > 5 s = Load default configuration

3

The equipment restarts

▶ LOAD CUSTOM CONFIGURATION

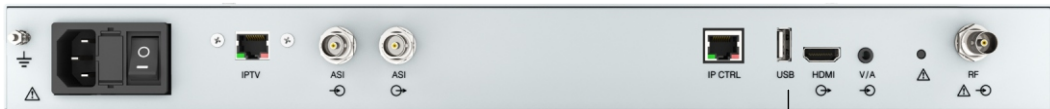
1



1 Press + 2 Switch On + 3 Drop

Orange Status LED (service mode)

2



Insert PENDRIVE with STATE.xml file which contains the custom configuration

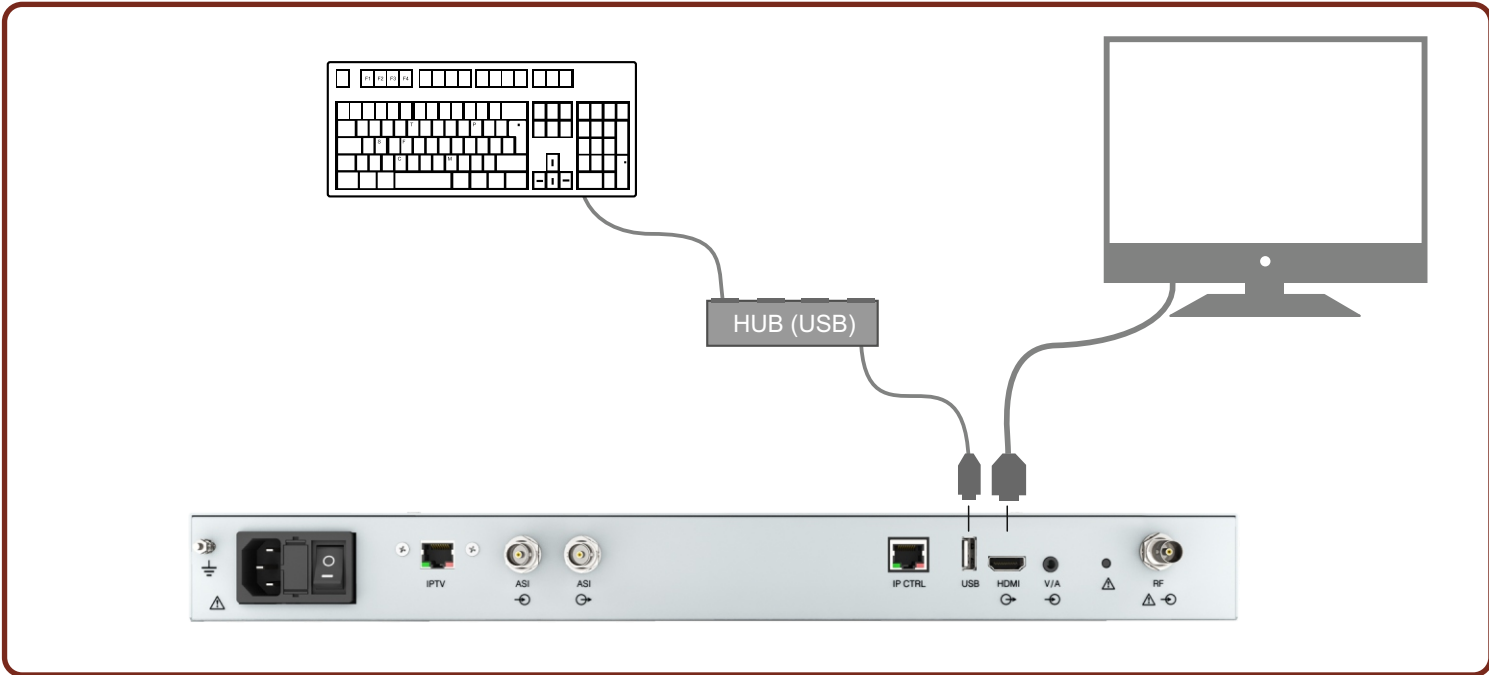
3

Press > 5 s = Load PENDRIVE file

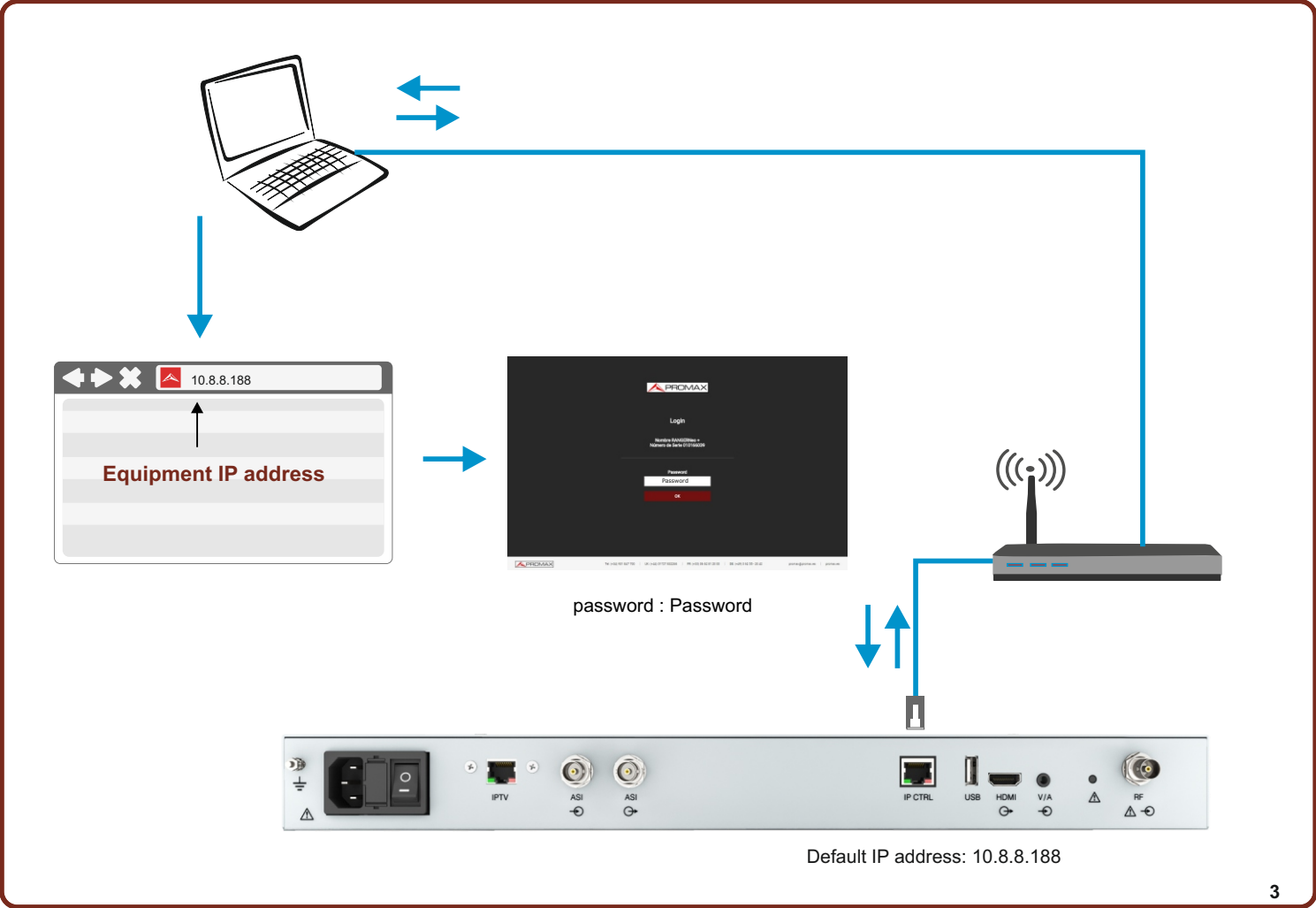
4

The equipment restarts

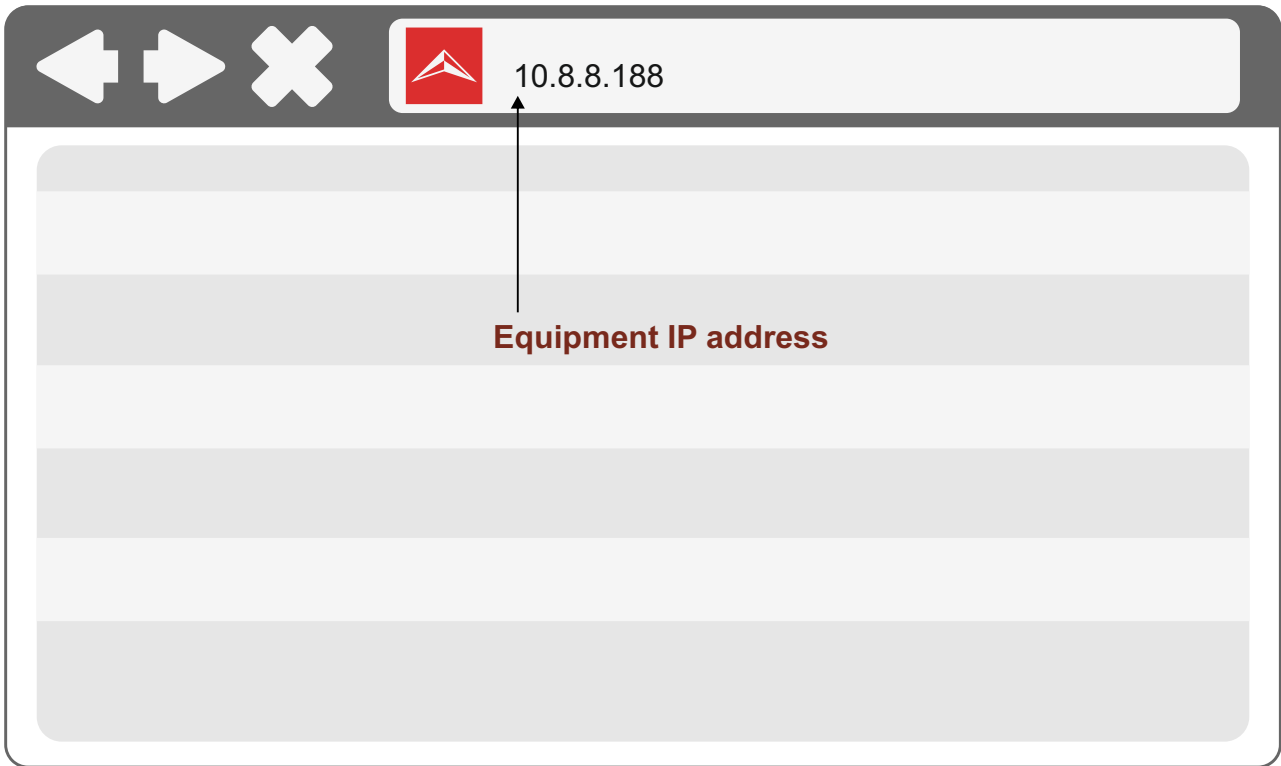
▶ LOCAL MODE CONNECTION



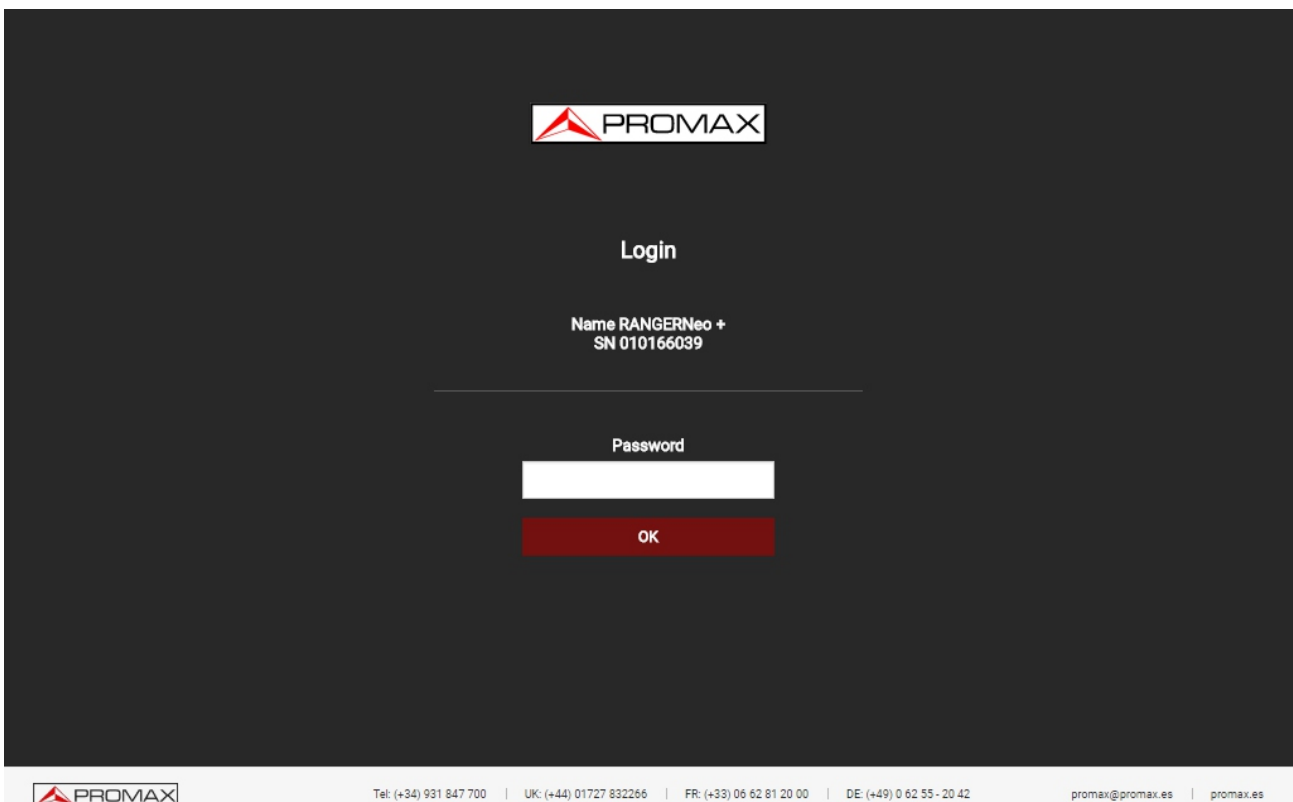
▶ (WEBCONTROL) REMOTE MODE CONNECTION



▶ **ACCESS TO THE WEBSERVER**



▶ **BOOT SCREEN**



► WEBSERVER

► Measurements and Spectrum

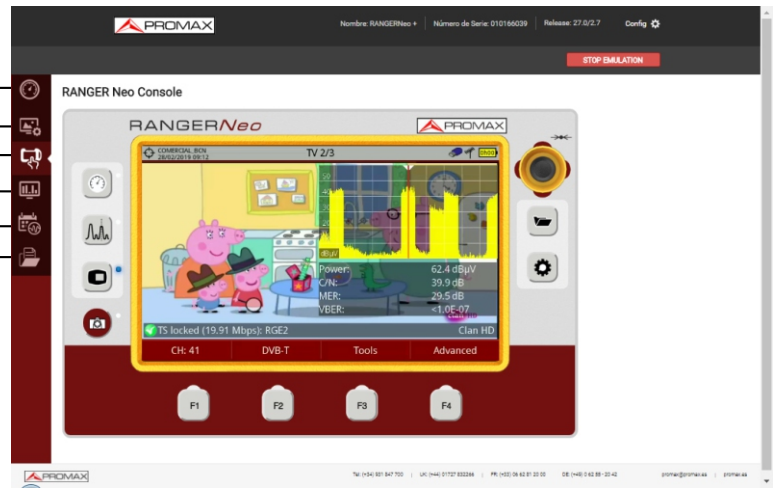
► TV Parameters

► RANGER Neo Console

► Monitoring

► Historical Monitoring

► Installations Management

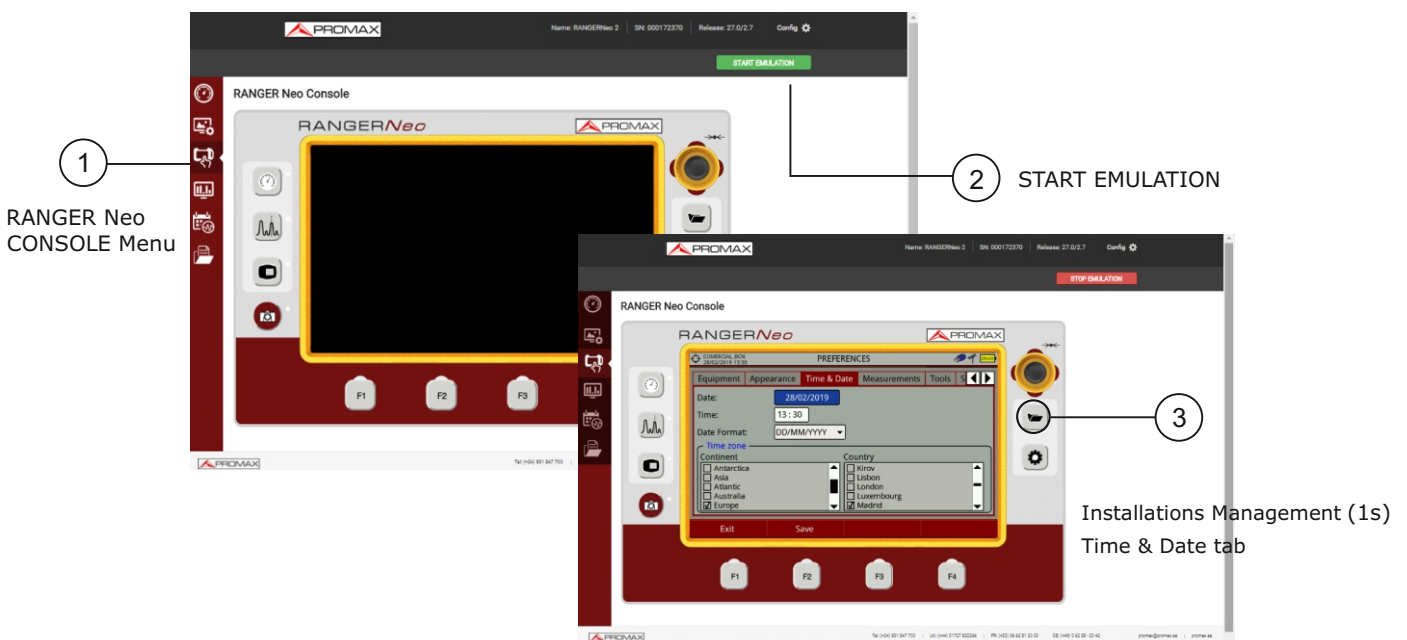


► TIME ZONE AND TIME CONFIGURATION



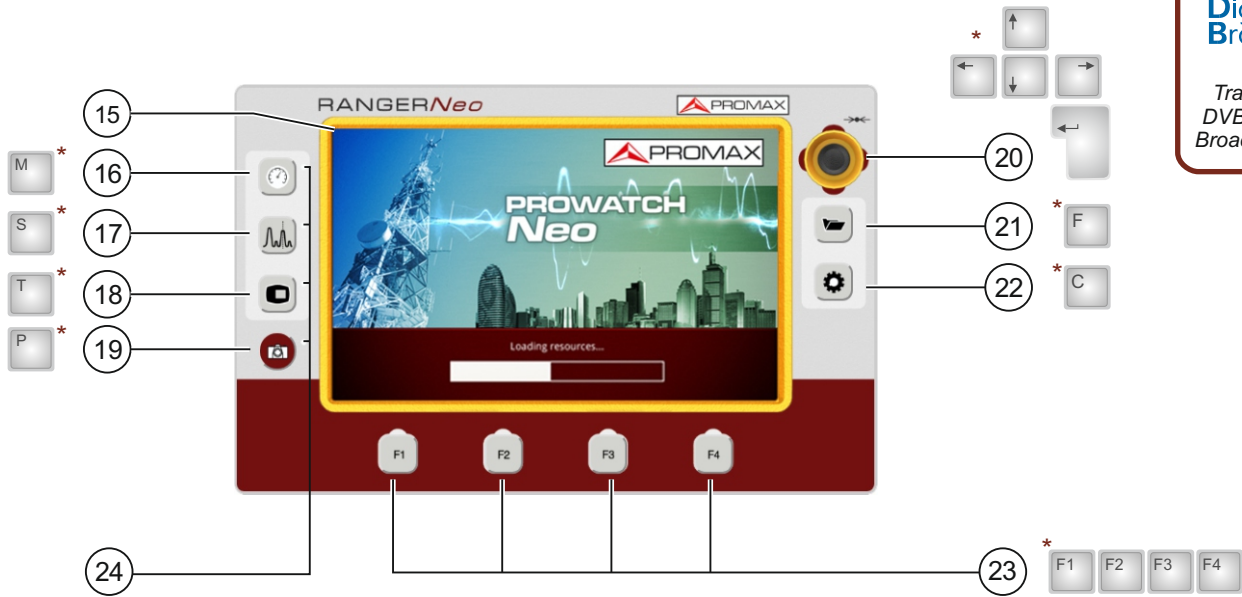
CAUTION

Before carrying out the monitoring, select the geographical zone where the equipment is. See figure



RANGER Neo Console

Remote Control of Equipment



* Keyboard access

- | | | | |
|----|---|----|------------------------------|
| 15 | Screen | 20 | Joystick |
| 16 | Measurement key | 21 | Installations management key |
| 17 | Spectrum key | 22 | Settings key |
| 18 | TV key | 23 | Softkeys |
| 19 | Export (press >1s)
/ Reference (press <1s) | 24 | Active Function Indicator |

SCREEN ICONS REFERENCE

STATUS BAR

- Battery charging**
- 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

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

SERVICE LIST SELECTOR

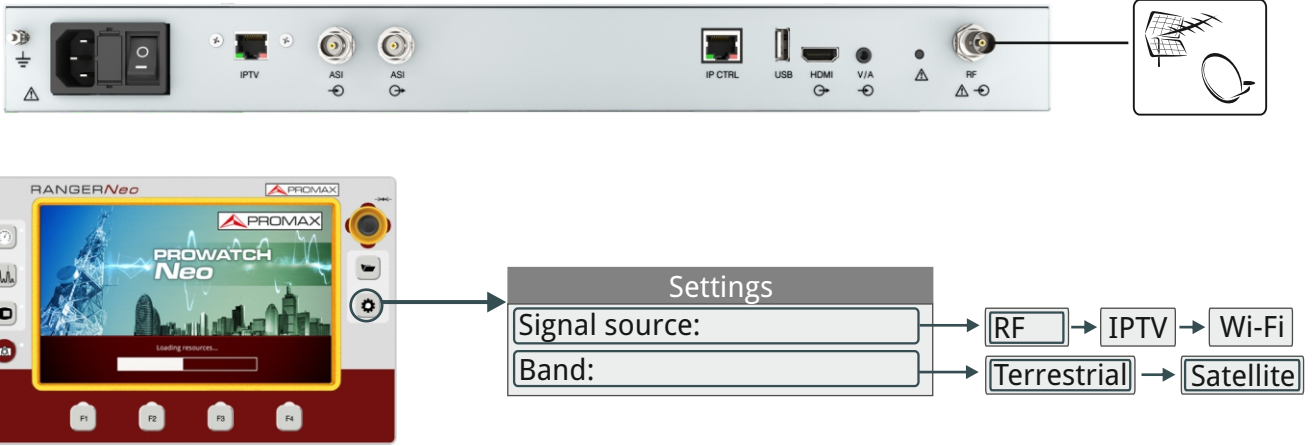
- DIGITAL TV service**
- High Definition TV service**
- Digital radio**
- Data**
- Scrambled service**

DIALOG BOXES

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

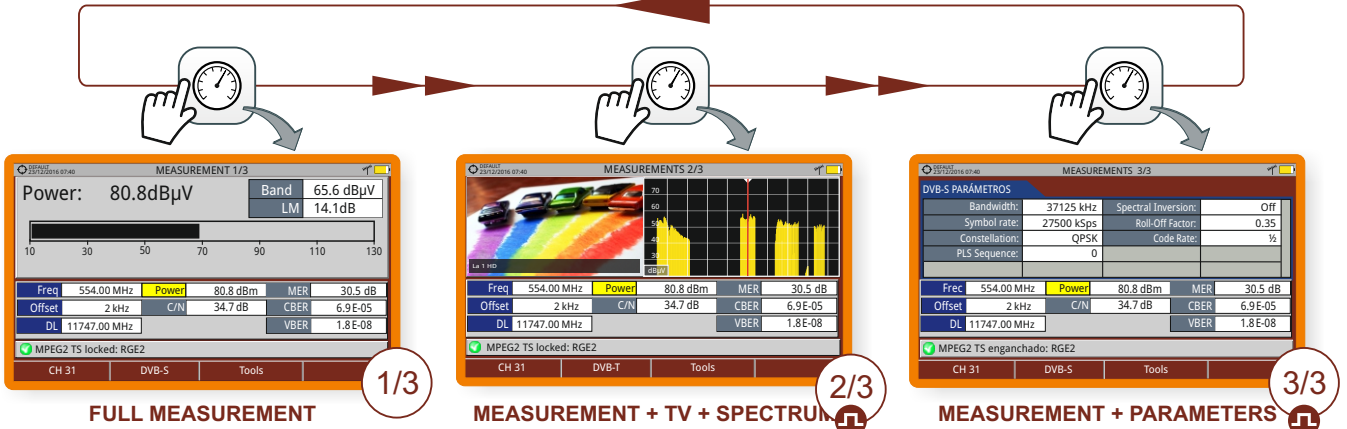
* Optical Option. Refer annex on the User's Manual

RF ► SETTINGS

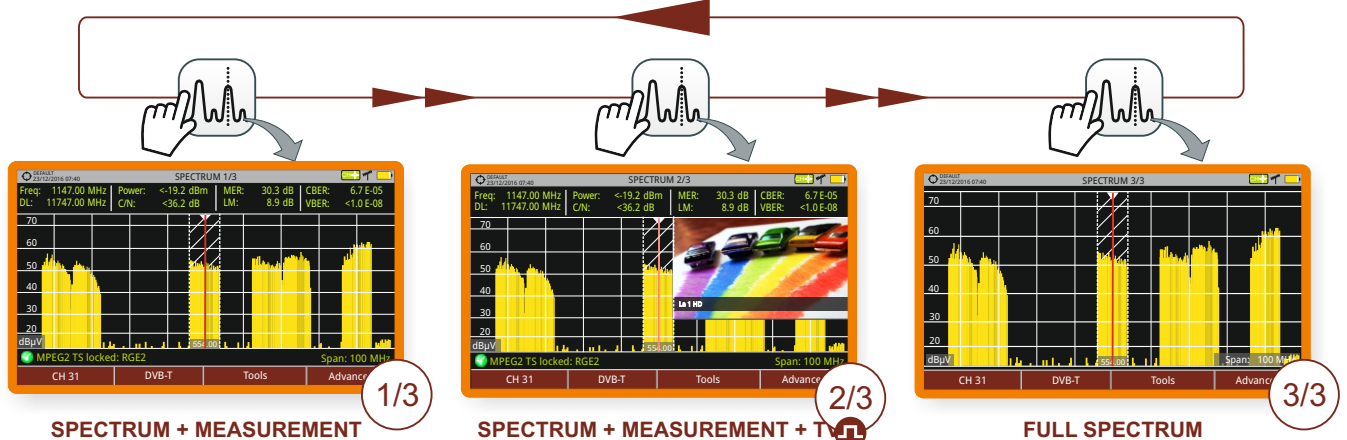


RF ► SCREENS

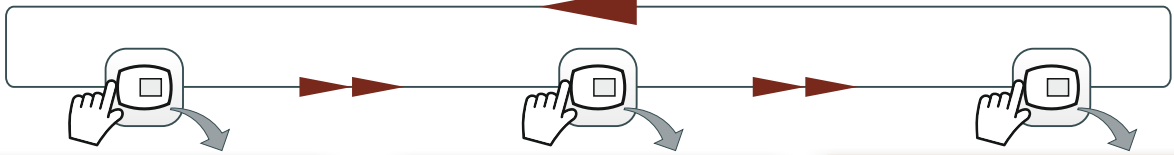
► MEASUREMENT



► SPECTRUM ANALYSER

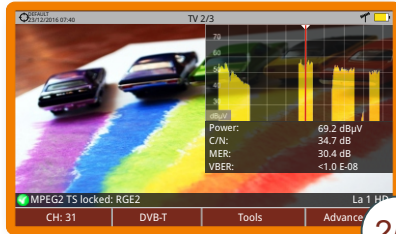


TV



FULL TV

1/3



TV + SPECTRUM + MEASUREMENT

2/3



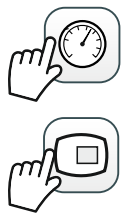
TV + SERVICE DATA

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*
- Service Recording...
- Streaming V/A
- Echoes (📡)
- Constellation
- MER by carrier (📡)
- Shoulder Attenuation
- LTE Ingress Test (📡)
- Attenuation Test
- Task Planner...
- Merogram (📡)
- Spectrogram
- Tilt & Scan
- Wi-Fi Configuration
- Analogue Input (📡) → [Antenna] → [External]



Advanced

- Average: [Off] → [On]
- Spectrum Line: [Off] → [On]
- 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: [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]
- [200 kHz]
- [1000 kHz]



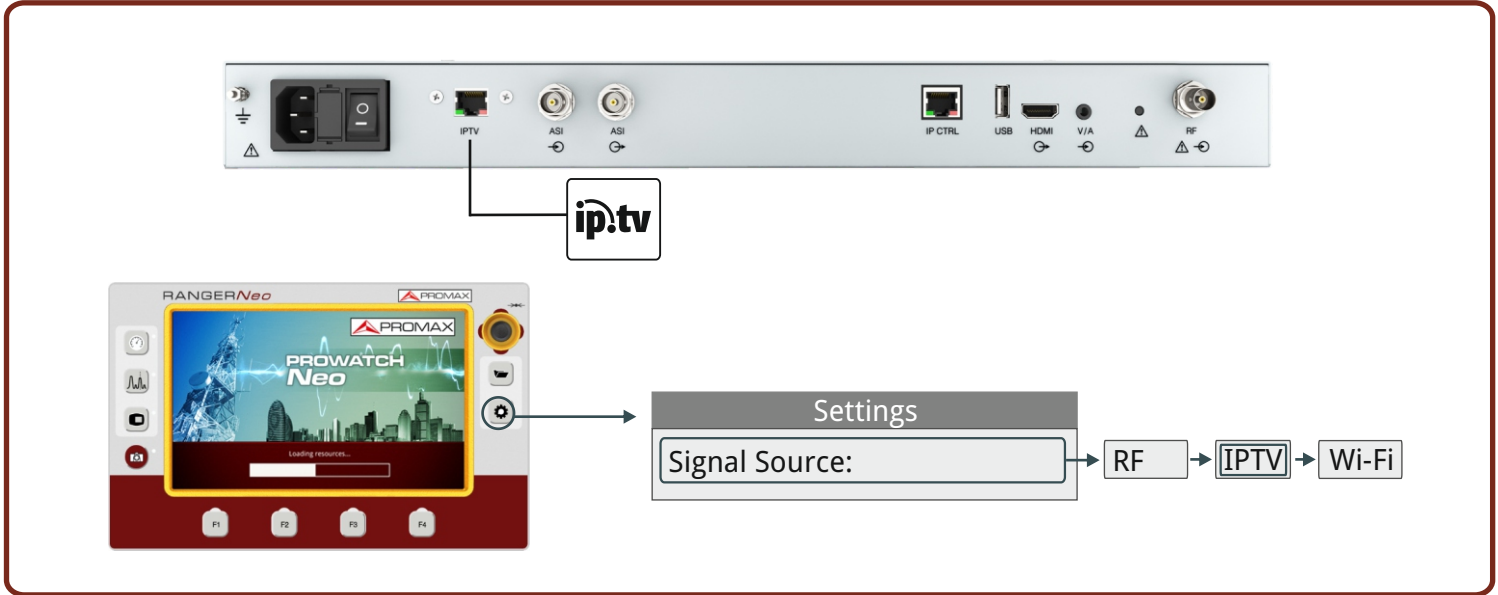
Advanced

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

* (Only available for PROWATCH/Neo 2)

*** IPTV ip.tv ▶ AJUSTES**

* (Only available for PROWATCHNeo 2)



IPTV ip.tv ▶ SCREENS

▶ IP MEASUREMENTS

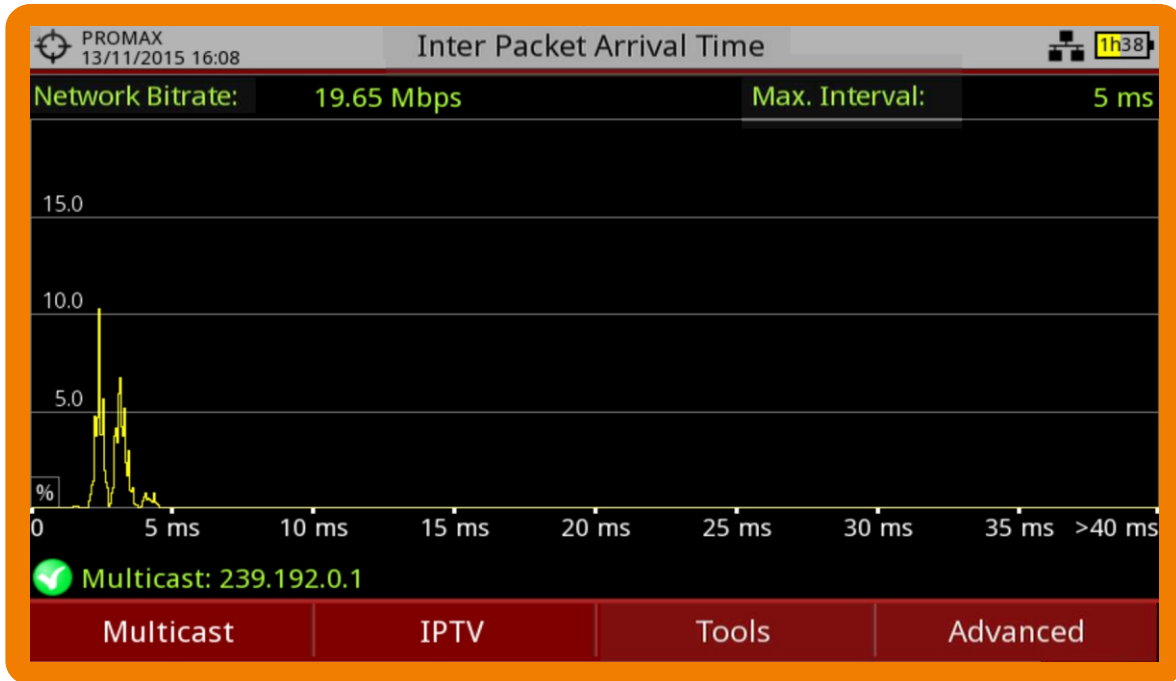
The IP MEASUREMENTS screen displays various network performance metrics. The first screen shows Buffer Usage at 0%, TS Bitrate at 4.90 Mbps, and Network Bitrate at 19.73 Mbps. The second screen shows Received Packets at 41146, Network Bitrate at 19.54 Mbps, and IP packets/werrors at 0%. The third screen shows Ethernet Speed at 1 Gbps, Network Bitrate at 19.59 Mbps, and IP packets/werrors at 0%.

▶ IPTV

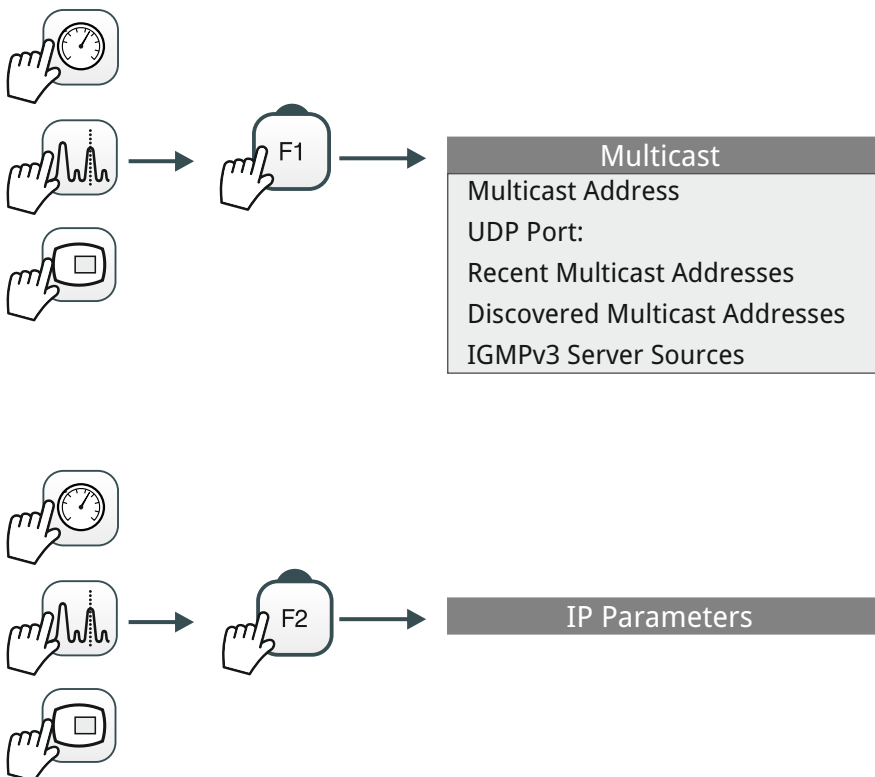
The IPTV screen displays a TV channel with a rainbow and cars. The second screen shows detailed service information, including Network Provider (MPE2), Video Type (MPEG-4 AVC), and Audio Type (DD+).

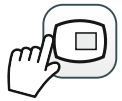


▶ INTER PACKET ARRIVAL TIME



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	



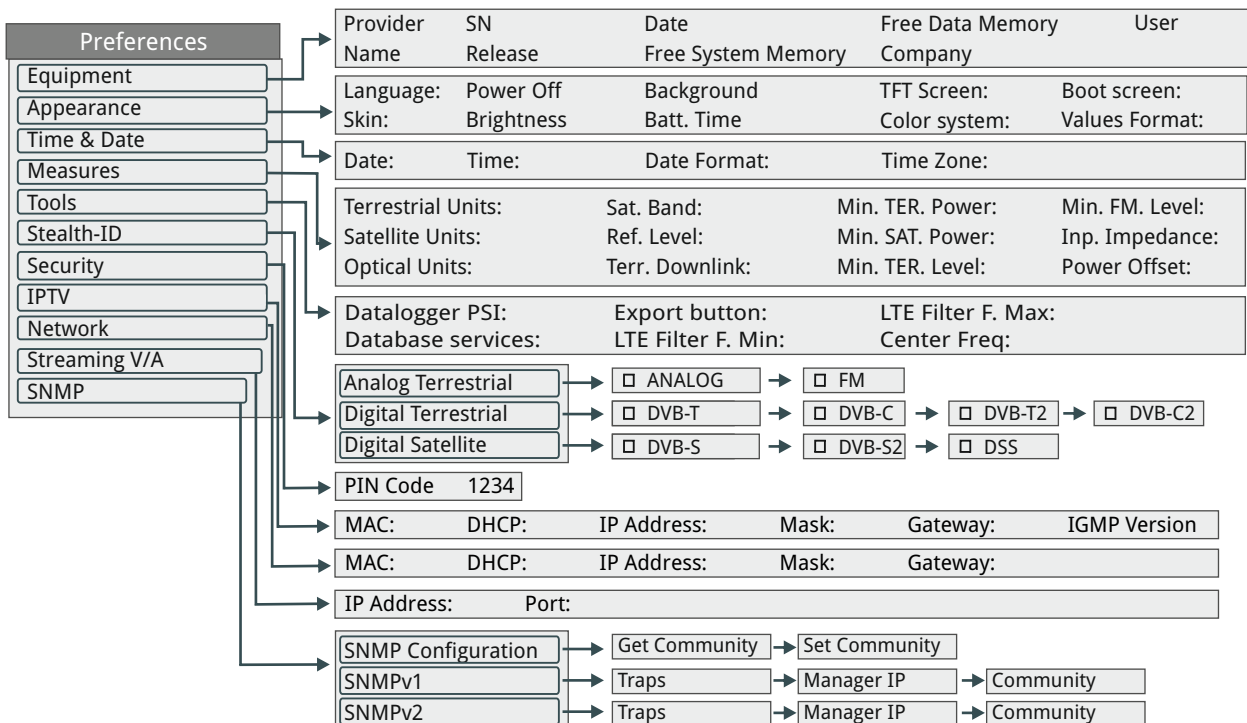
Advanced	
Span	
Restart analysis	



Advanced	
Audio	
Discovered URLs	
TS Data	

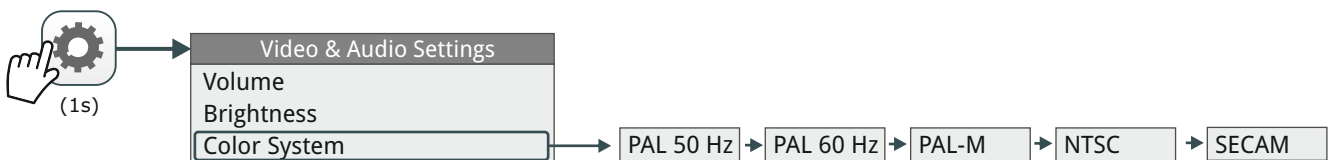
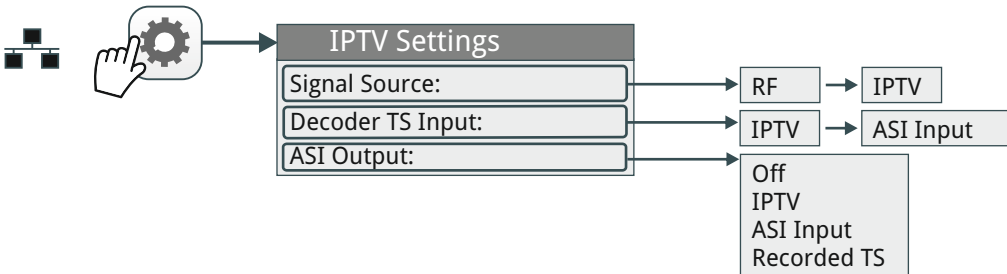
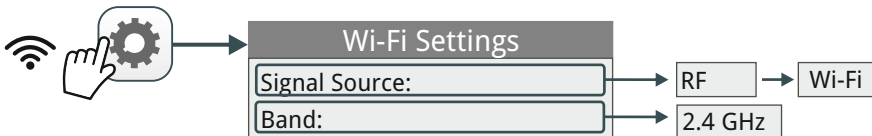
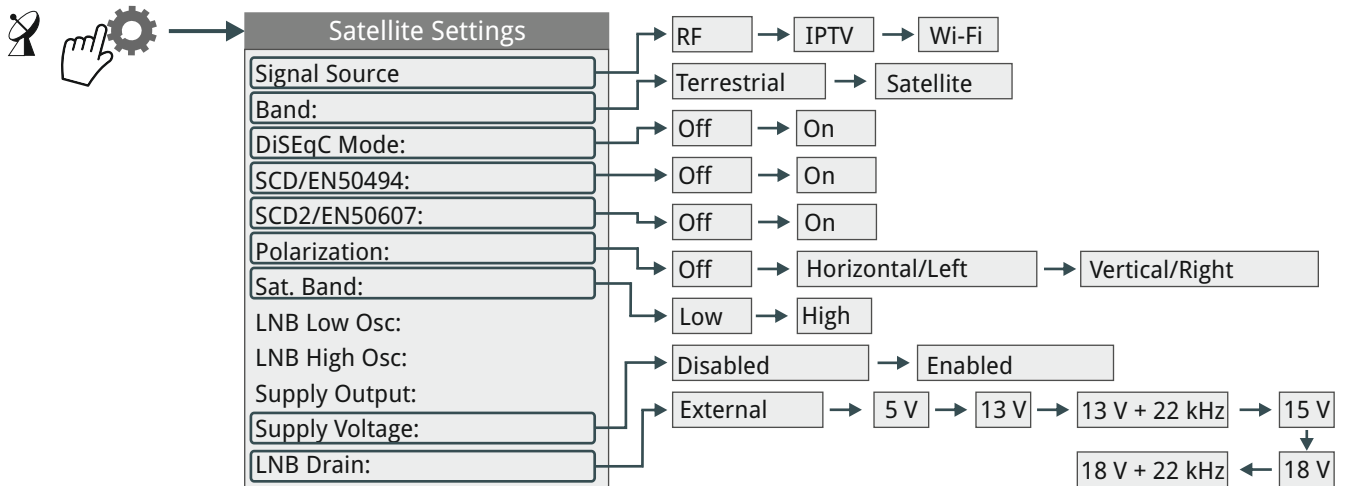
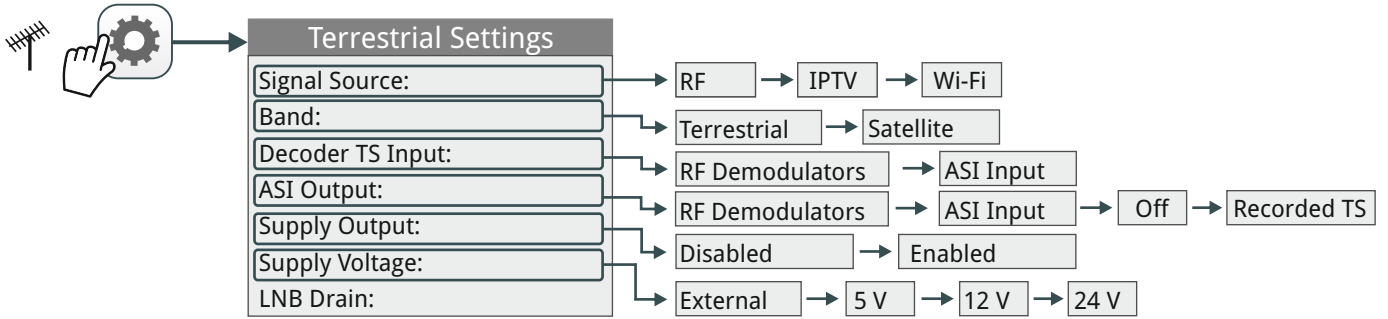


▶ PREFERENCES MENU

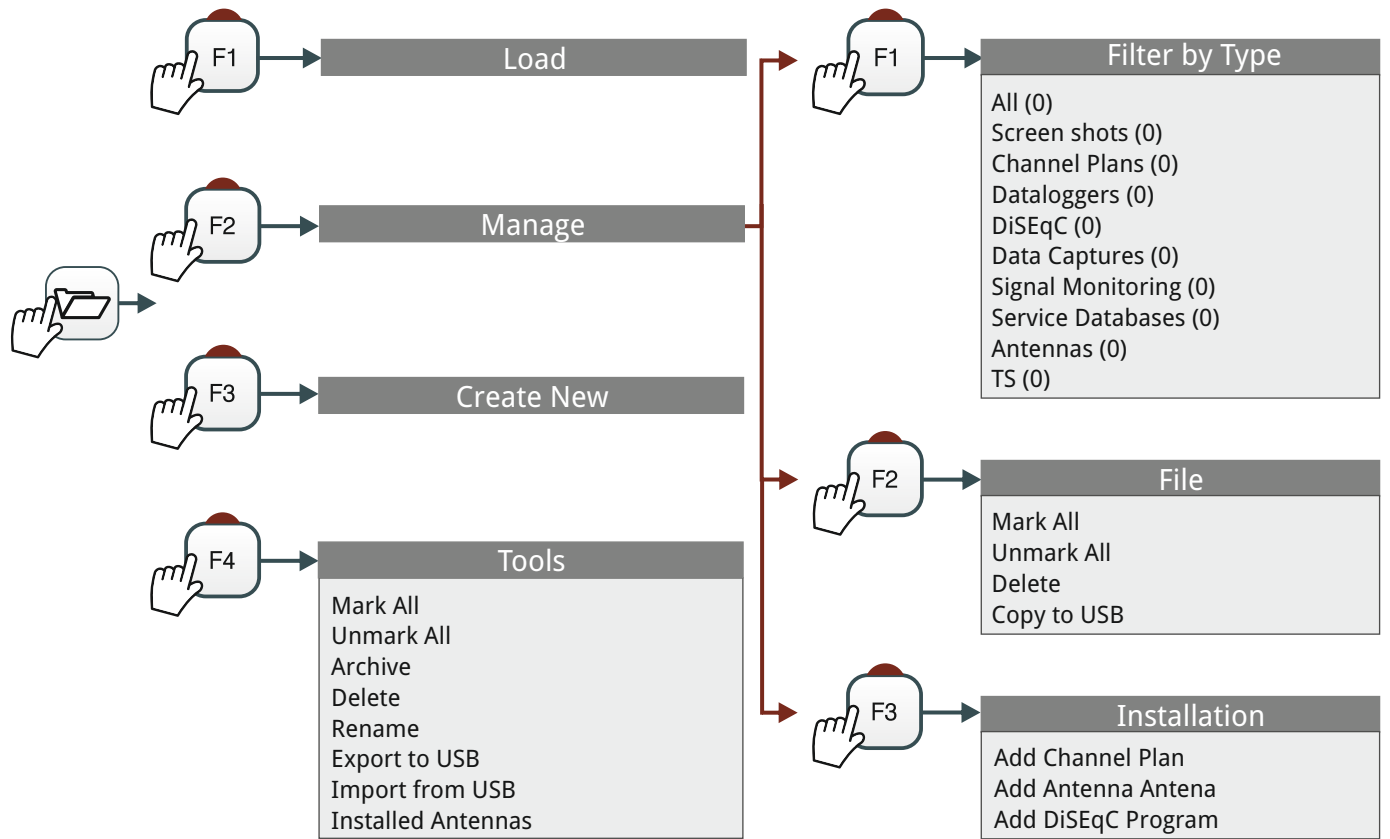




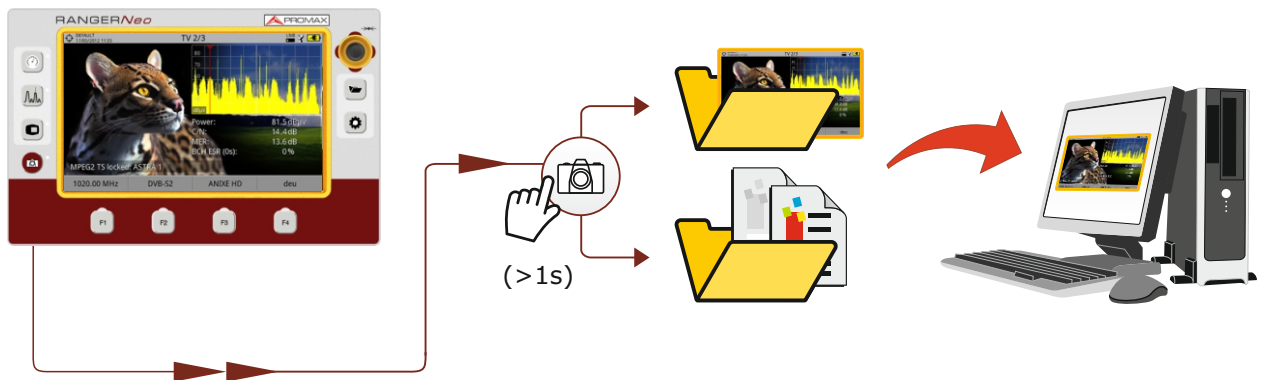
▶ SETTINGS MENU



INSTALLATION MANAGEMENT

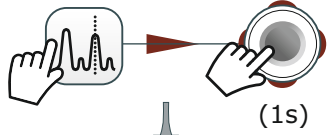


SCREEN CAPTURE



* Export settings in Preferences

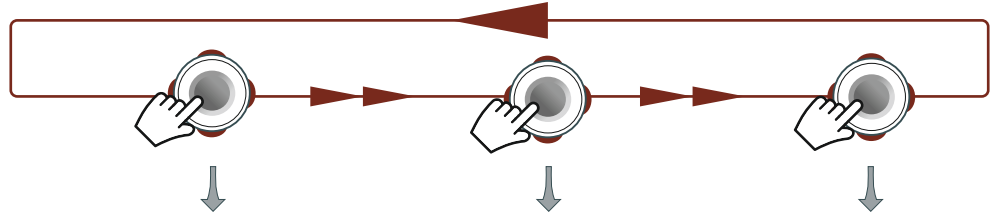
▶ JOYSTICK



(1s)

Joystick configuration

RefLevel+	RefLevel+
CH - ◀ CH +	Span - ◀ Span +
RefLevel-	RefLevel-



AP
Access Point
change



FR
Frequency
tuning



CH
Channel
tuning

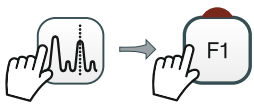


SP
SPAN
Change



MK
Marker moving
(Marker ON)

PARAMETER EDITION



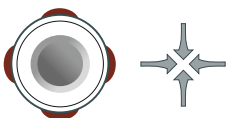
F1

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

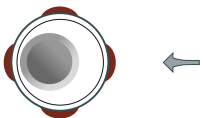


x3

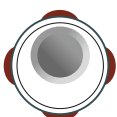
Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



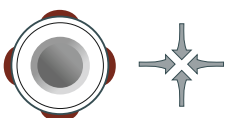
Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



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

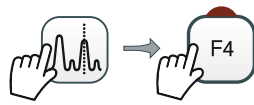


Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.10 MHz ●



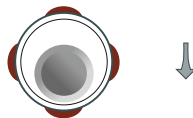
Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.10 MHz ●

PARAMETER SELECTION

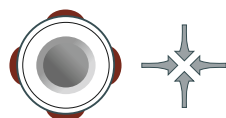


F4

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.

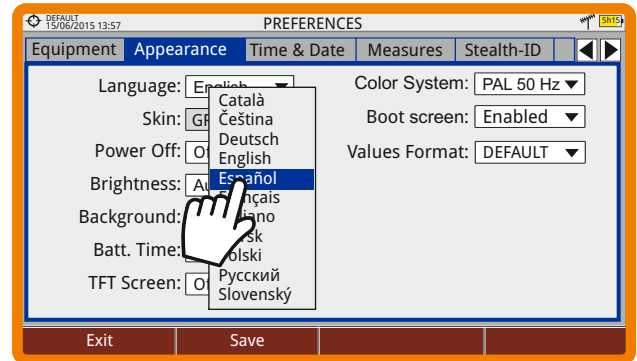
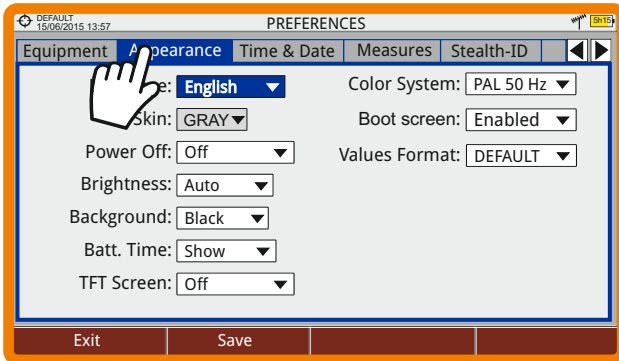


Advanced	
Average	0 ●
Spectrum Line	Solid ◅

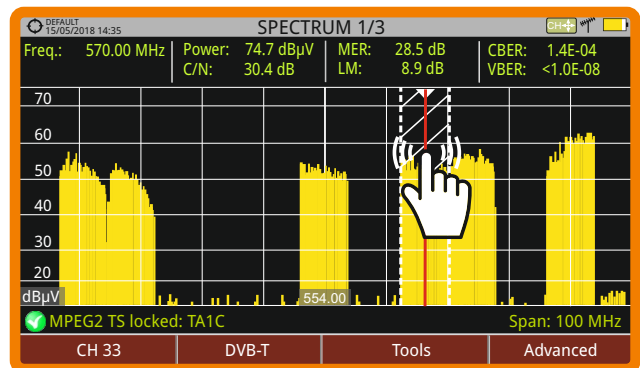
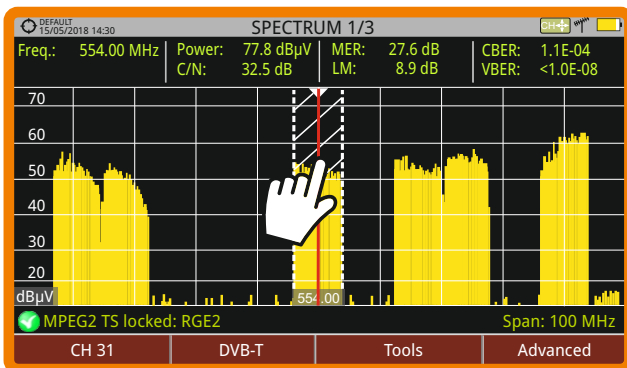


TOUCH SCREEN

SELECTION MENU



FREQUENCY SELECTION



VIRTUAL KEYBOARD WRITING

