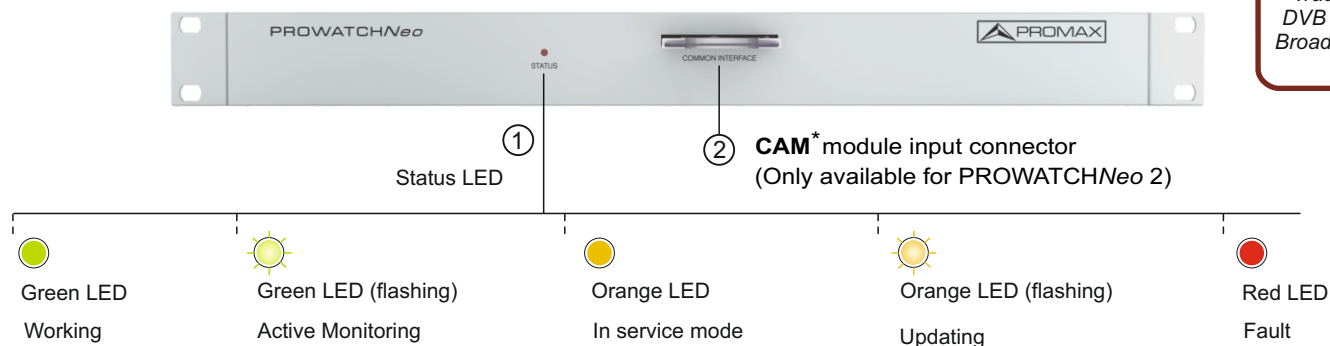


FRONT VIEW



REAR VIEW



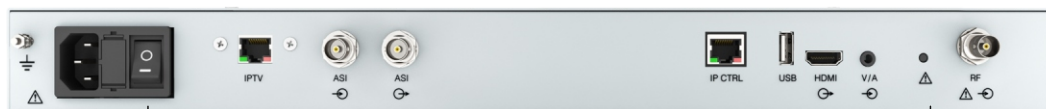
- ③ **Power** input connector
- ④ **Fuses**
- ⑤ **Power** input connector
- ⑥ **IPTV** Ethernet connector (Only available for PROWATCHNeo 2)
- ⑦ **ASI** Input (Only available for PROWATCHNeo 2)
- ⑧ **ASI** Output (Only available for PROWATCHNeo 2)
- ⑨ **ETHERNET** connector for (NetUpdate / Streaming 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



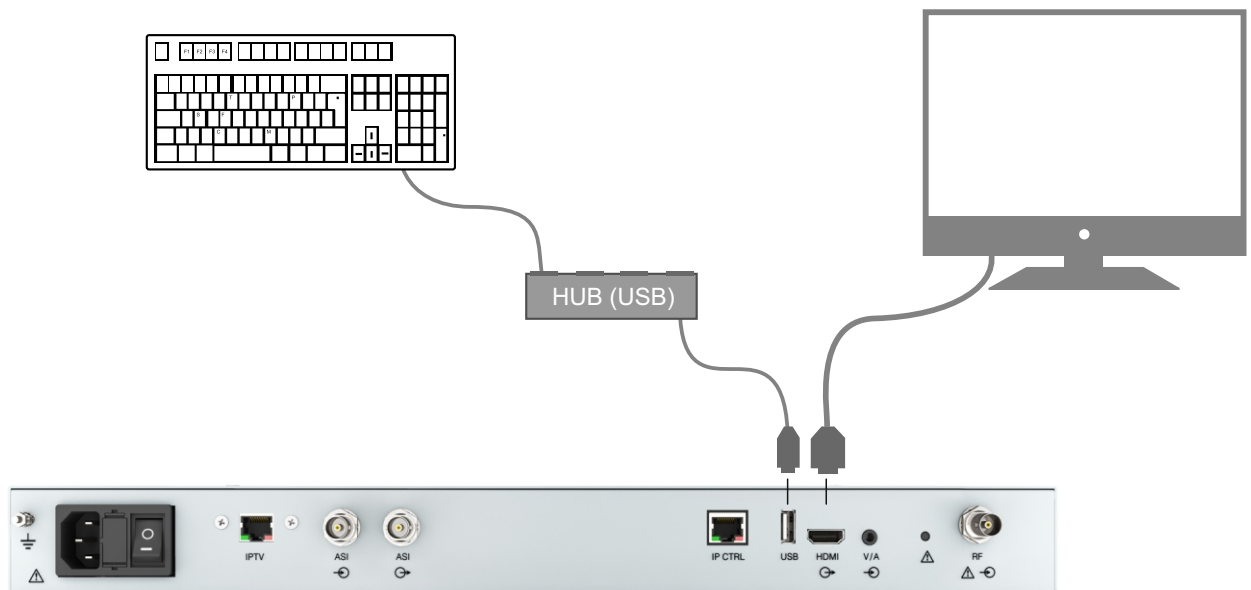
③

Press  > 5 s = Load PENDRIVE file

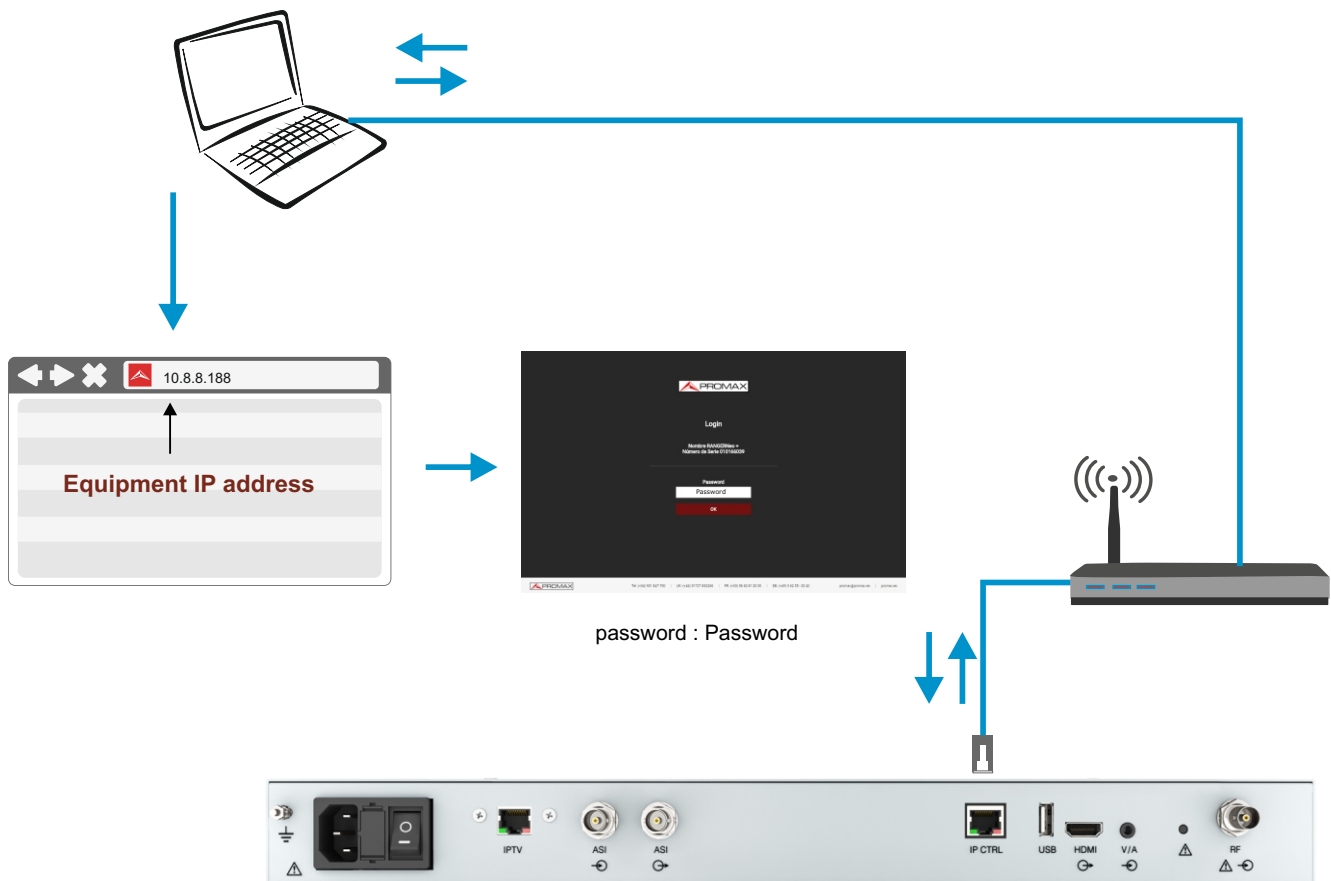
④

The equipment restarts

▶ LOCAL MODE CONNECTION

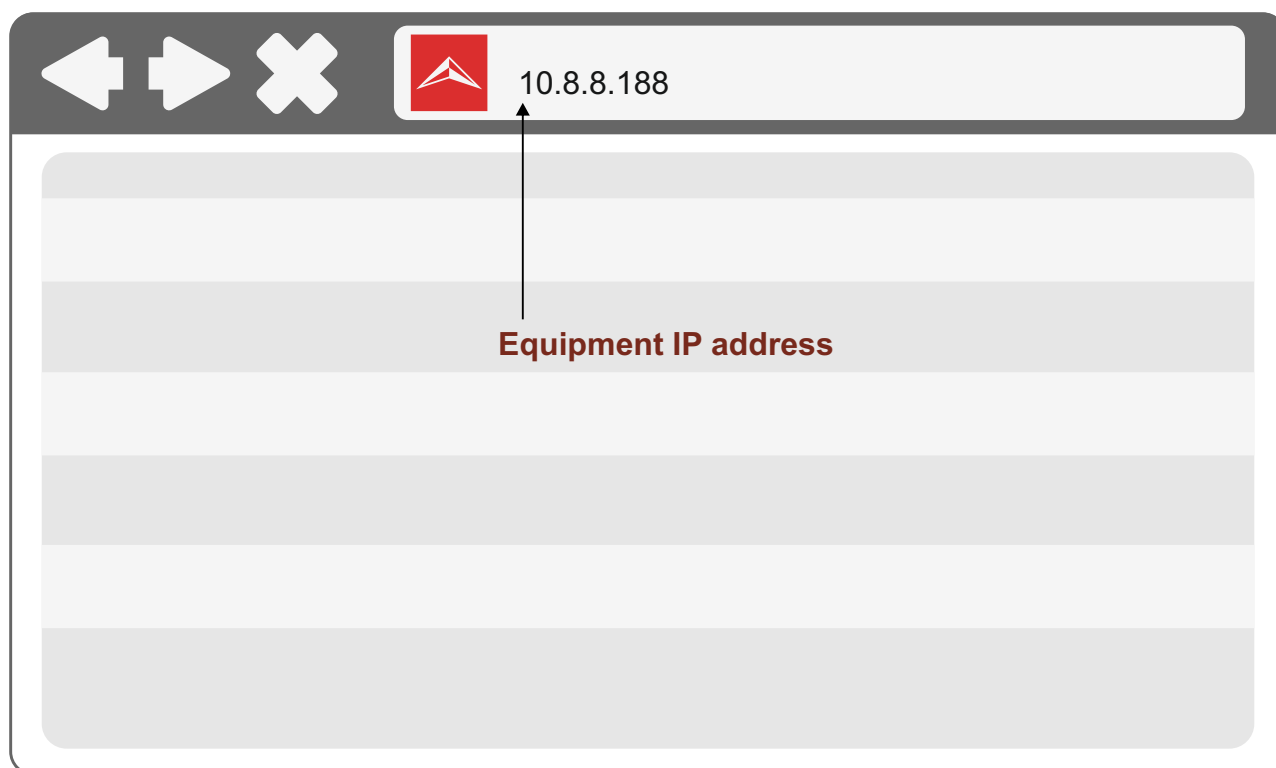


▶ (WEBCONTROL) REMOTE MODE CONNECTION

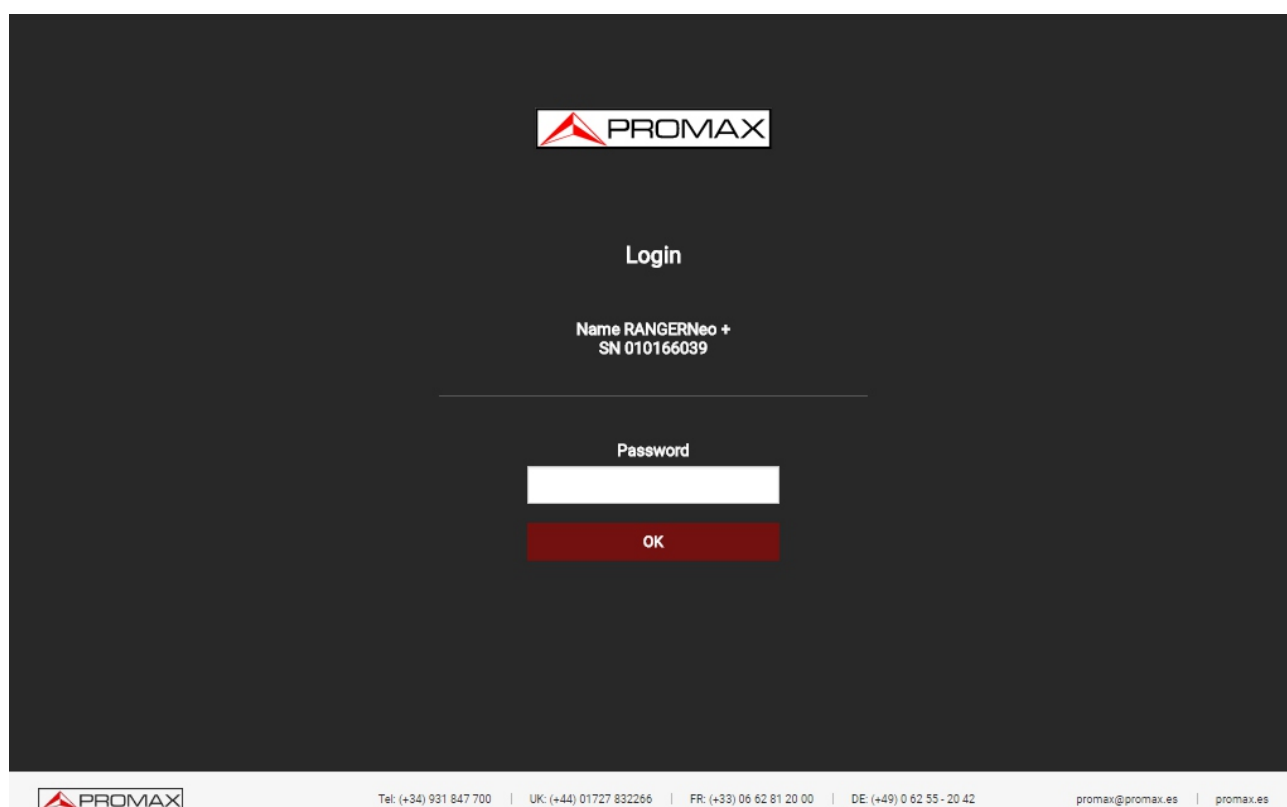


Default IP address: 10.8.8.188

► ACCESS TO THE WEBSERVER



► BOOT SCREEN



► WEBSERVER

► Measurements and Spectrum

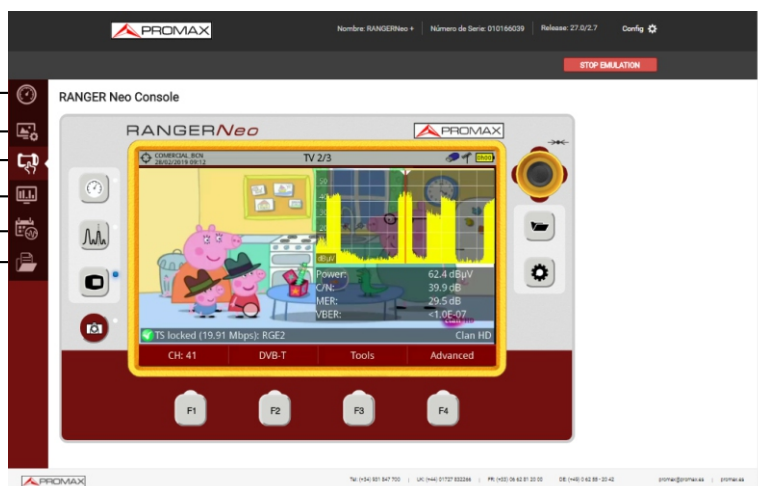
► TV Parameters

► RANGER Neo Console

► Monitoring

► Historical Monitoring

► Installations Management

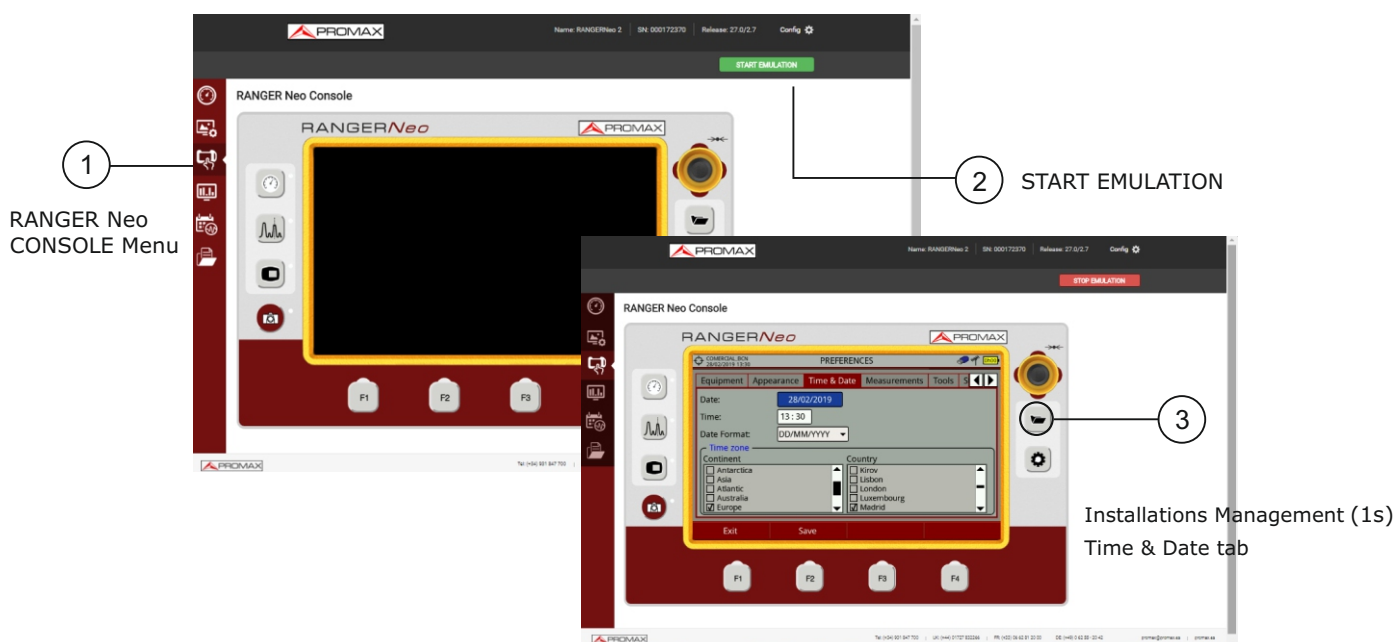


► TIME ZONE AND TIME CONFIGURATION



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

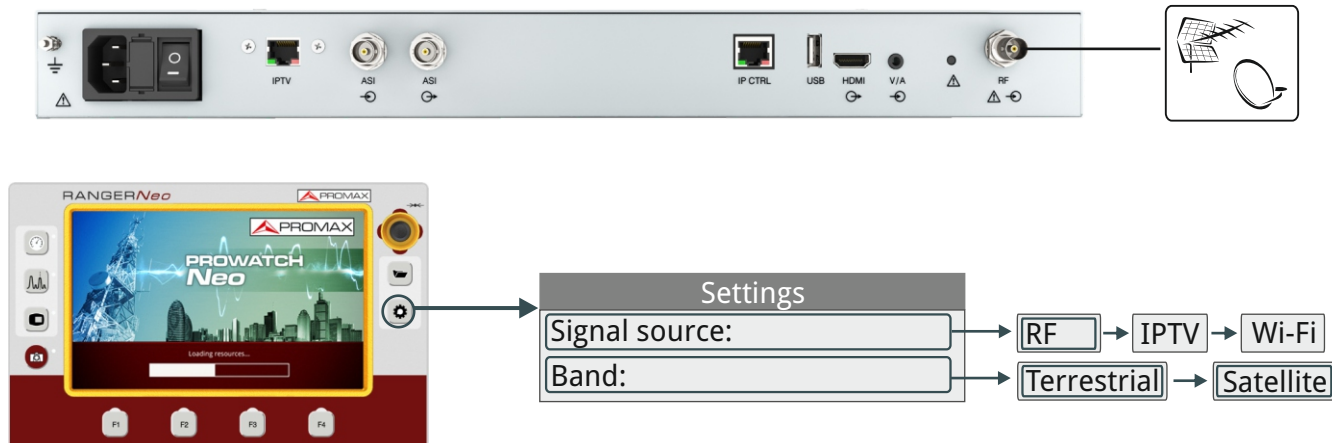
- DIGITAL TV service**
- High Definition TV service**
- Digital radio**
- Data**
- Scrambled service**

DIALOG BOXES

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

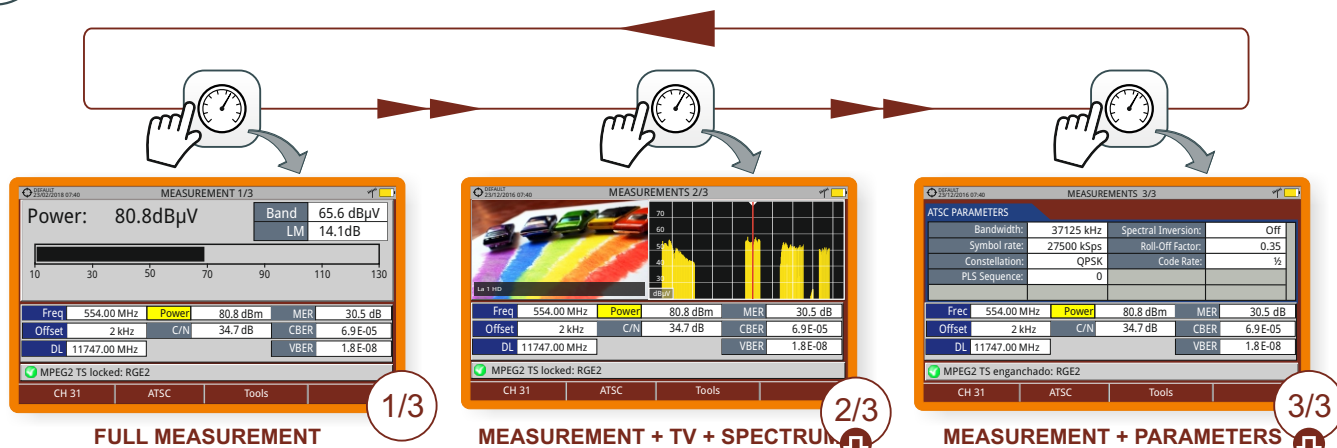
* Optical Option. Refer annex on the User's Manual

RF ► SETTINGS

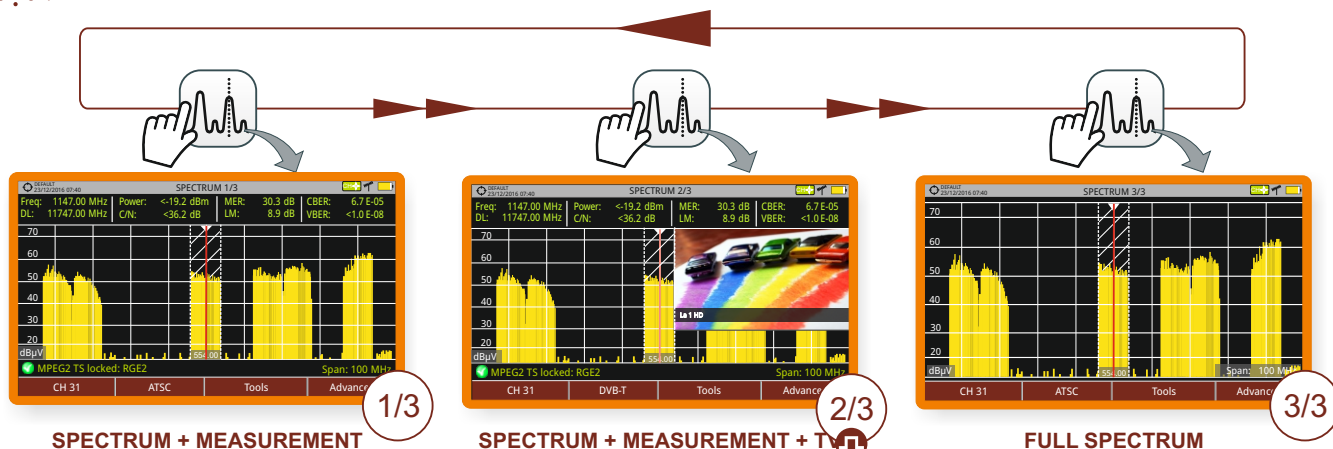


RF ► SCREENS

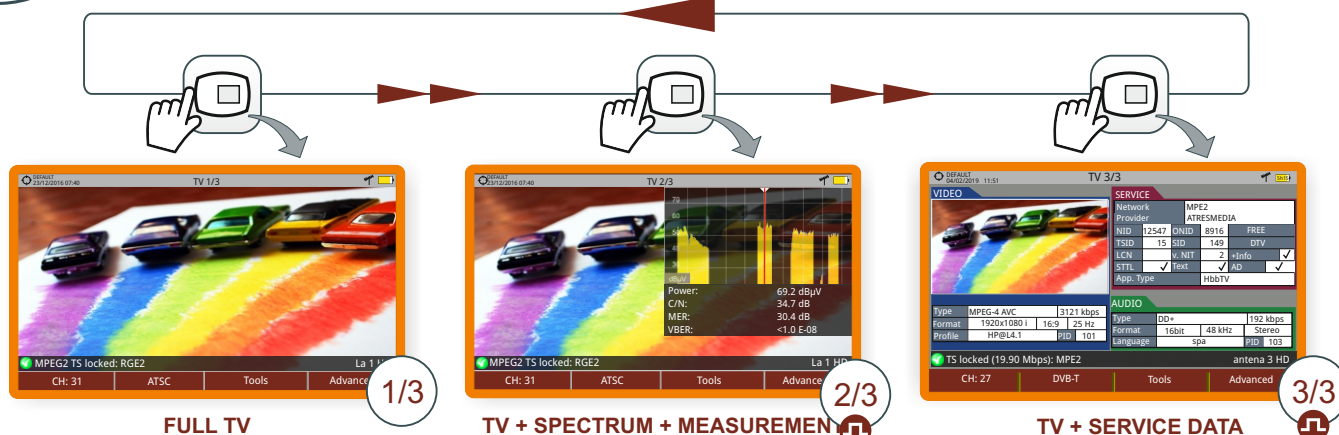
► MEASUREMENT



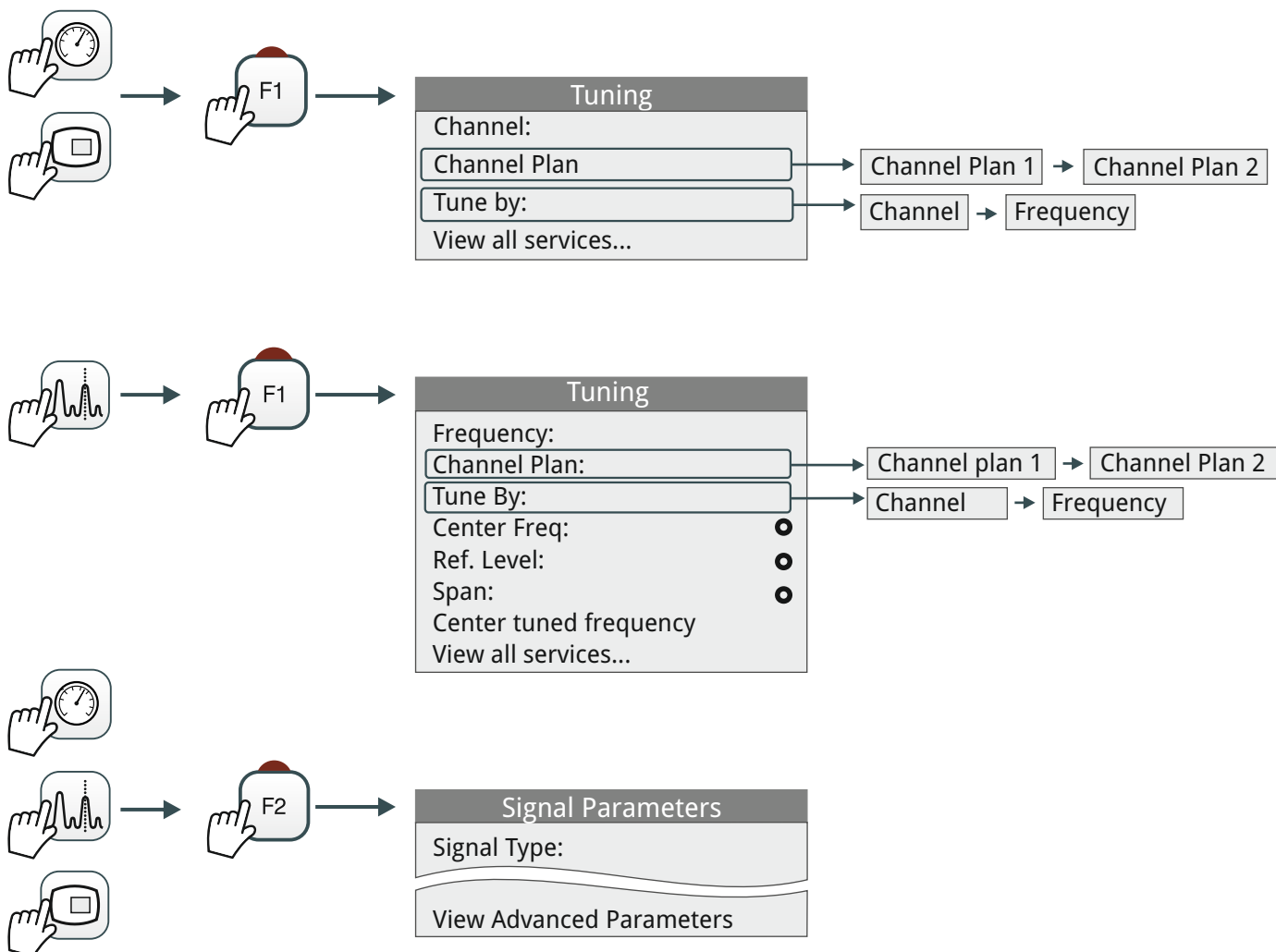
► SPECTRUM ANALYSER



TV



RF MENU





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
- Constellation
- Shoulder Attenuation
- LTE Ingress Test
- Attenuation Test
- Task Planner...
- Spectrogram
- Tilt & Scan
- 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

Off → On

Set → Clear

1 dB/div

200 kHz

1000 kHz



Advanced

- Audio:
- Discovered URLs:
- TS Data:
- Aspect Ratio

4:3 → 16:9

* (Only available for PROWATCHNeo 2)

* (Only available for PROWATCHNeo 2)



The diagram illustrates the process of measuring IP network performance using the PCTEL PROMAX tool. It shows three sequential measurements, each with a hand icon and a clock indicating the timing. The measurements are displayed in three separate screenshots, each showing a different set of network statistics.

Measurement 1/3: IP MEASUREMENTS 1/3

IP Parameters		Multicast Reception	
Buffer Usage:	0 %	Received Packets	9729
TS Bitrate: TS:	4.90 Mbps	RTP Missing Packets	0
		FEC Fixed Packets	0
		Buffer Usage	0 %
		Stable Reception	No
		TS Bitrate	4.90 Mbps
Received Traffic			
Delay Factor (MDI)	0.0 ms	Network Bitrate	19.73 Mbps
Media Loss Rate (MDI)	<1E-6 pkt/s	IP packets w/errors	0
Resources Busy	0 %	IPER	0 %

✓ Multicast: 239.192.0.1

Buttons: Multicast, IPTV, Tools, Advanced

Measurement 2/3: IP MEASUREMENTS 2/3

IP Parameters		Multicast Reception	
Buffer Usage:	0 %	Received Packets	41146
TS Bitrate: TS:	5.66 Mbps	RTP Missing Packets	0
		FEC Fixed Packets	0
		Buffer Usage	0 %
		Stable Reception	No
		TS Bitrate	5.66 Mbps
Received Traffic			
Delay Factor (MDI)	239.192.0.1	Network Bitrate	19.54 Mbps
Media Loss Rate (MDI)	1234	IP packets w/errors	0
Resources Busy	0 %	IPER	0 %

✓ Multicast: 239.192.0.1

Buttons: Multicast, IPTV, Tools, Advanced

Measurement 3/3: MEDIDAS IP 3/3

IP Parameters		Multicast Reception	
Buffer Usage:	0 %	Received Packets	48829
TS Bitrate: TS:	3.89 Mbps	RTP Missing Packets	0
		FEC Fixed Packets	0
		Buffer Usage	0 %
		Stable Reception	No
		TS Bitrate	3.89 Mbps
Received Traffic			
Delay Factor (MDI)	239.192.0.1	Network Bitrate	19.59 Mbps
Media Loss Rate (MDI)	1234	IP packets w/errors	0
Resources Busy	0 %	IPER	0 %

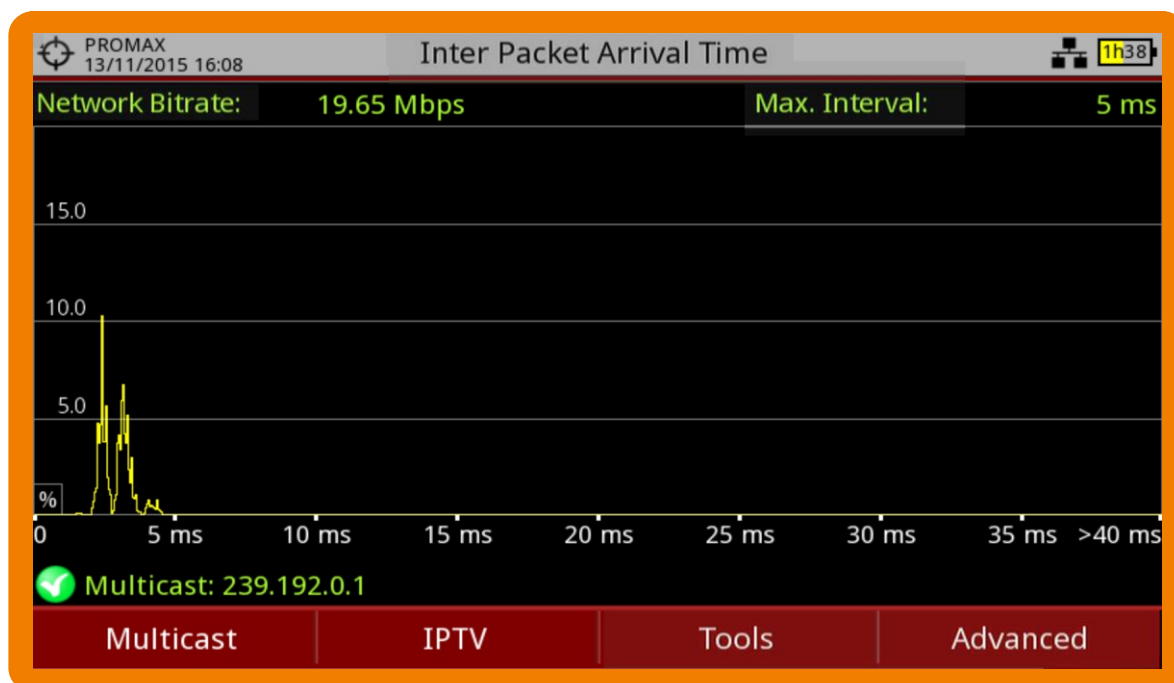
✓ Multicast: 239.192.0.1

Buttons: Multicast, IPTV, Tools, Advanced

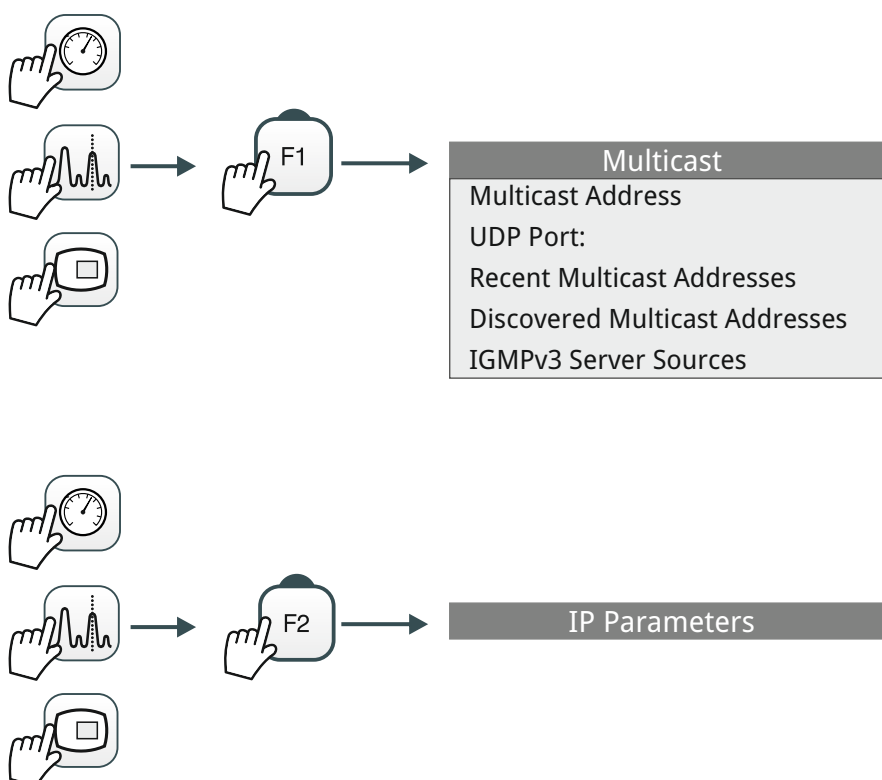
The diagram illustrates the process of switching from a standard TV broadcast to an IPTV service. It starts with a hand pressing a button on a TV set-top box, which then connects to a server. The TV screen displays a rainbow road with cars, and the interface shows various settings like Network, Service, and Audio.



► 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



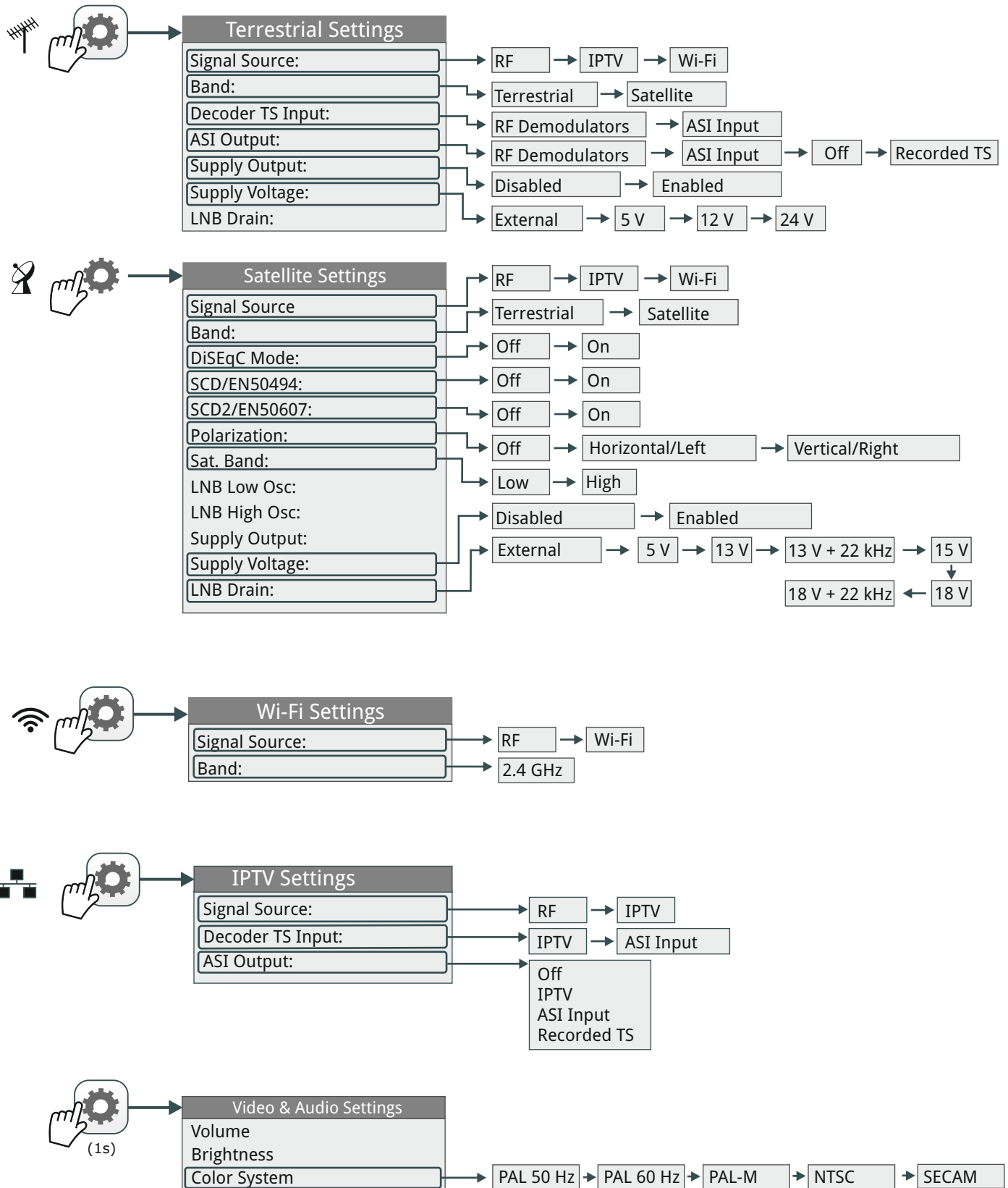
► PREFERENCES MENU



Preferencias	Provider Name	SN Release	Date Free System Memory	Free Data Memory Company	User
Equipment	Language: Skin:	Power Off Brightness	Background Batt. Time	TFT Screen: Color system:	Boot screen: Values Format:
Appearance	Date:	Time:	Date Format:	Time Zone:	
Time & Date	Terrestrial Units:	Sat. Band:	Min. TER. Power:	Min. FM. Level:	
Measures	Satellite Units:	Ref. Level:	Min. SAT. Power:	Inp. Impedance:	
Tools	Optical Units:	Terr. Downlink:	Min. TER. Level:	Power Offset:	
Stealth-ID	Datalogger PSI:	Export button:	LTE Filter F. Max:		
Security	Database services:	LTE Filter F. Min:	Center Freq:		
IPTV	Analog Terrestrial	☐ ANALOG	☐ FM		
Network	Digital Terrestrial	☐ DVB-C	☐ J83 AnnexB	☐ ATSC	
Streaming V/A	Digital Satellite	☐ DVB-S	☐ DVB-S2	☐ DSS	
SNMP	PIN Code	1234			
	MAC:	DHCP:	IP Address:	Mask:	Gateway: IGMP Version
	MAC:	DHCP:	IP Address:	Mask:	Gateway:
	IP Address:	Port:			
	SNMP Configuration	Get Community	Set Community		
	SNMPv1	Traps	Manager IP	Community	
	SNMPv2	Traps	Manager IP	Community	

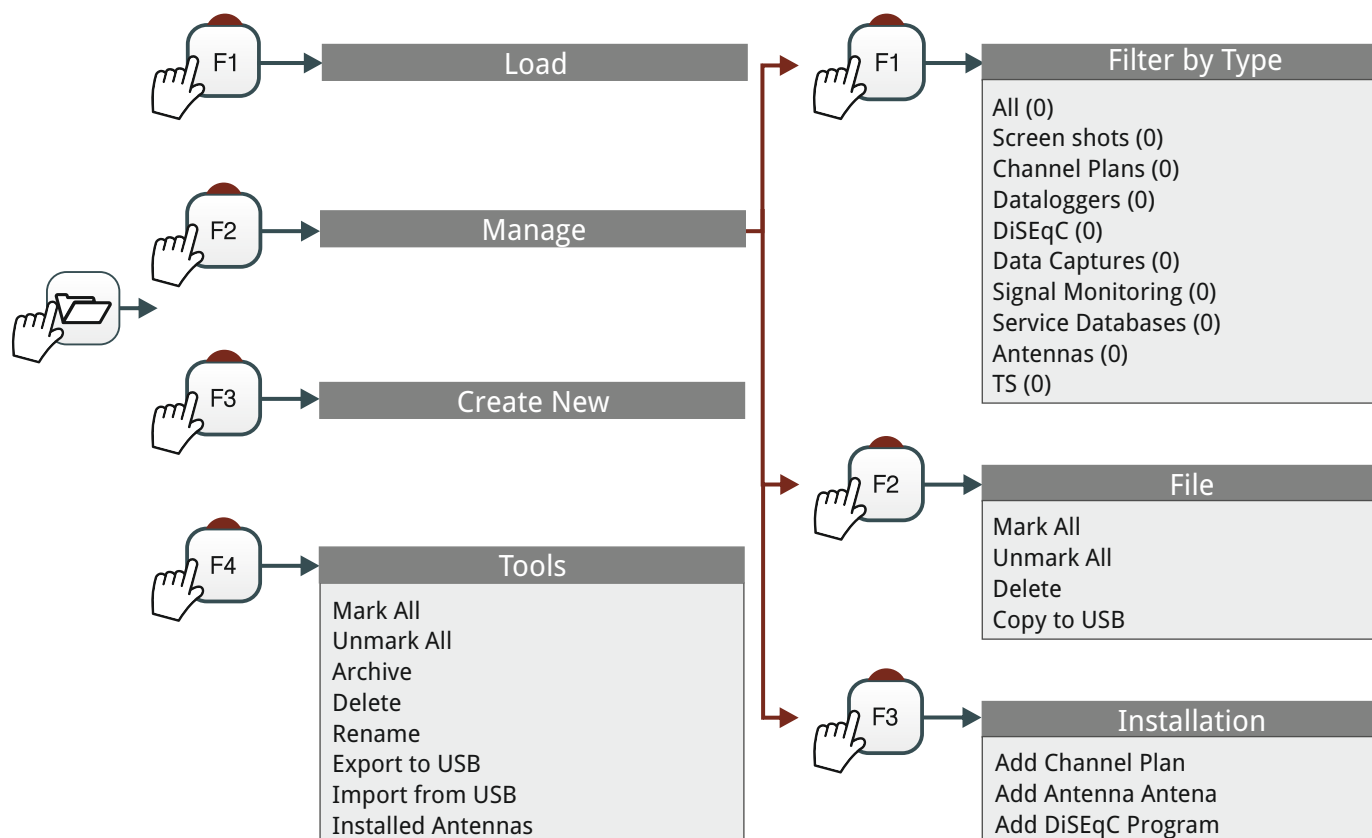


▶ SETTINGS MENU

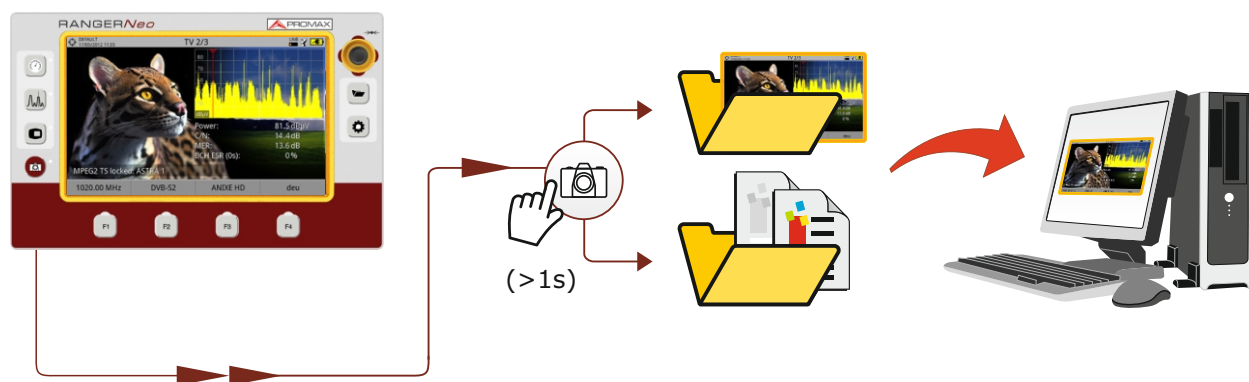




► INSTALLATION MANAGEMENT



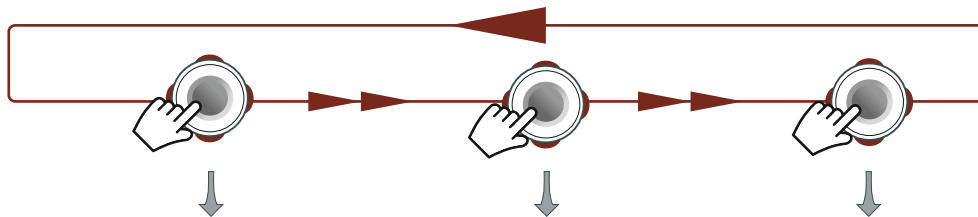
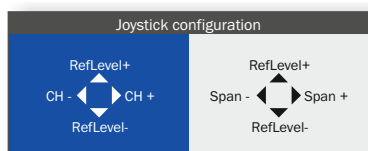
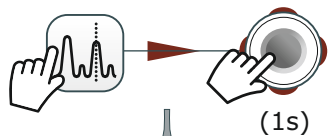
► SCREEN CAPTURE



* Export settings in Preferences



▶ JOYSTICK



Access Point
change



FR
tuning



CH
tuning

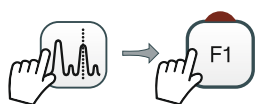


SPAN
Change



Marker moving
(Marker ON)

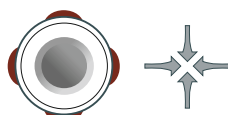
PARAMETER EDITION



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



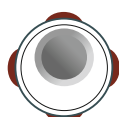
Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



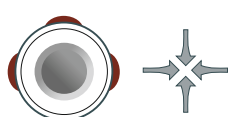
Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.00 MHz ●



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

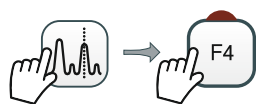


Tuning	
Channel:	44
Channel Plan	CCIR ▶
Tune By:	Channel ▶
Center Freq:	658.10 MHz ●



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

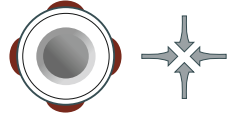
PARAMETER SELECTION



Advanced	
Average	0 ●
Spectrum Line	Outline ◄



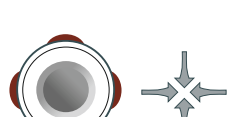
Advanced	
Average	0 ●
Spectrum Line	Outline ◄



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



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

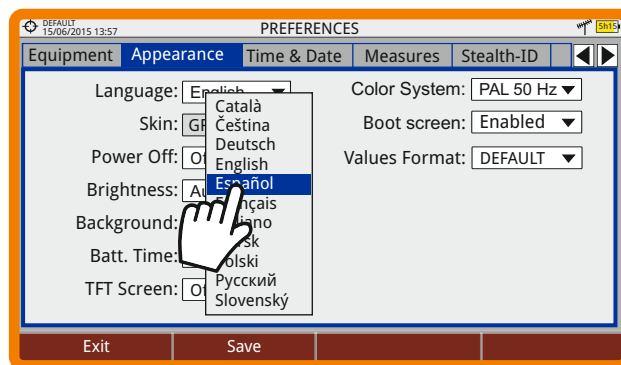
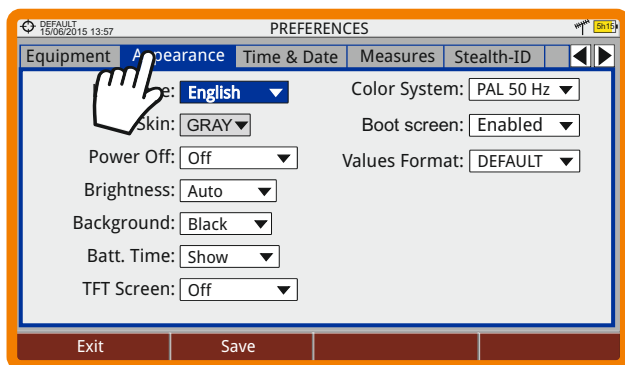


Advanced	
Average	0 ●
Spectrum Line	Solid ◄

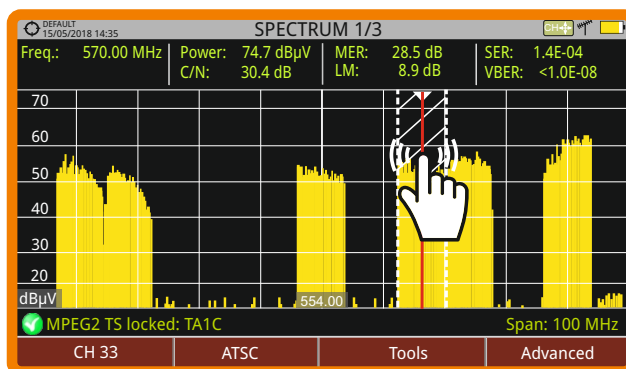
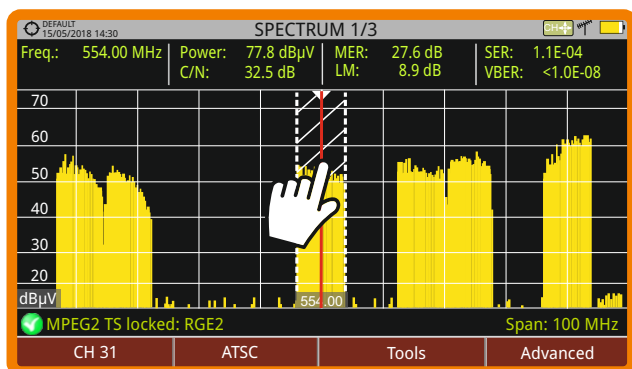


TOUCH SCREEN

SELECTION MENU



FREQUENCY SELECTION



VIRTUAL KEYBOARD WRITING

