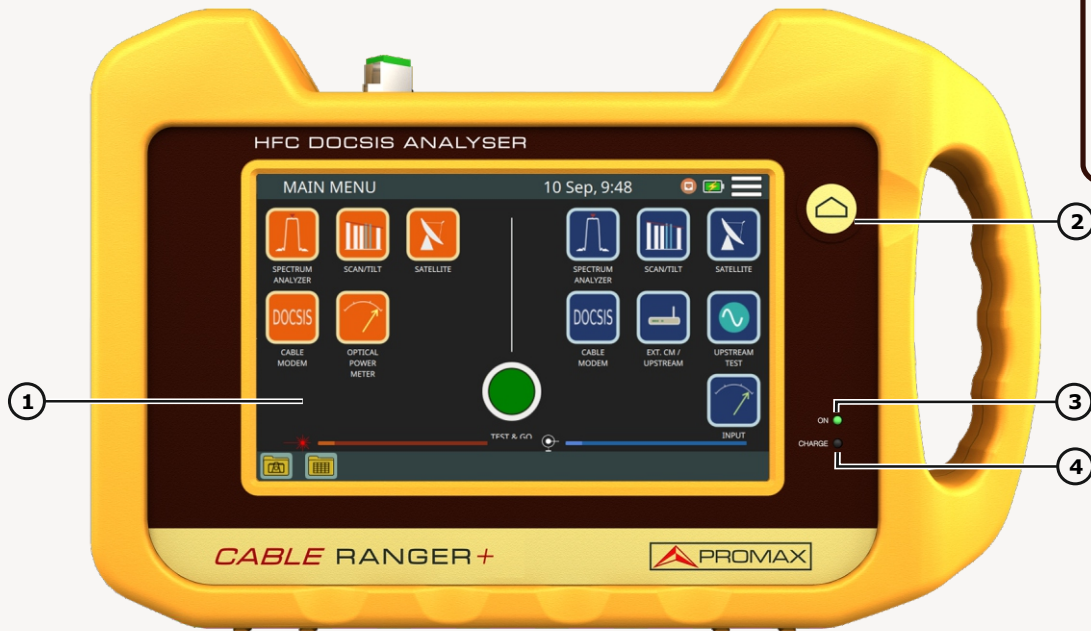


FRONT VIEW



- ① Touch Screen
- ② HOME key to access main screen
- ③ ON indicator
- ④ Battery charging indicator

TOUCH ICONS

- Screenshot
- Back to previous screen
- Back to main screen
- Access to the shutdown screen
- Close menu
- Access to screenshots
- Access to dataloggers
- Test and Go
- Access to settings menu
- Switch off

- Increase value
- Decrease value
- Increase Span
- Decrease span
- Edit value
- Select parameter

INDICATIVE ICONS

- Cable measures
- Fibre optics measures
- USB flashdrive connected and detected
- Connected to Ethernet network
- Battery charging
- Battery not charging. Green level indicates battery left
- Low battery

ON:



OFF:



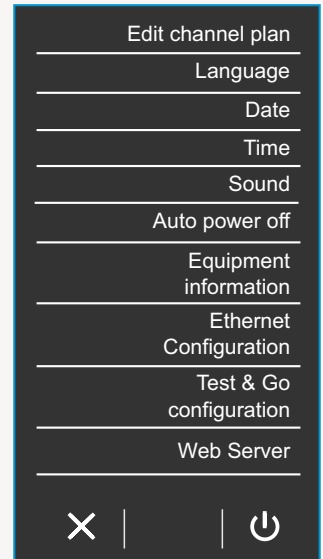
RESET:



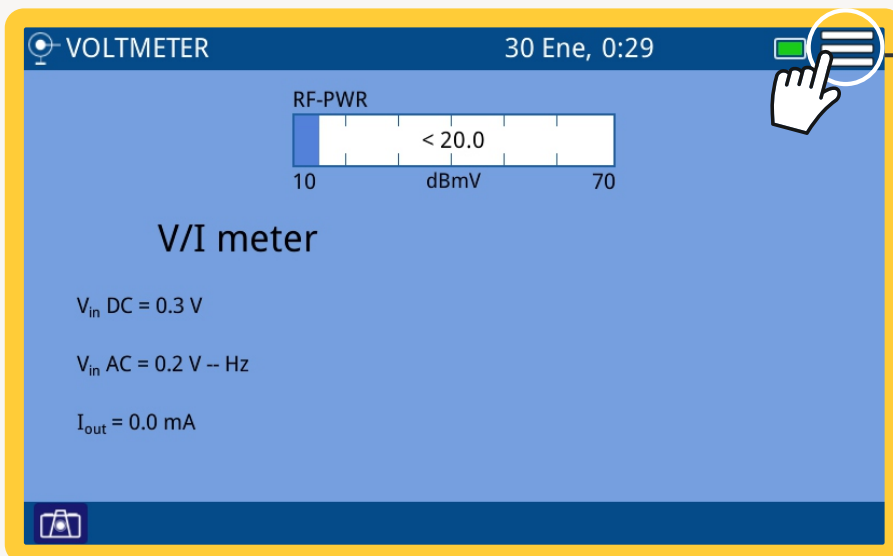
(3s)



► **MAIN SETTINGS MENU**

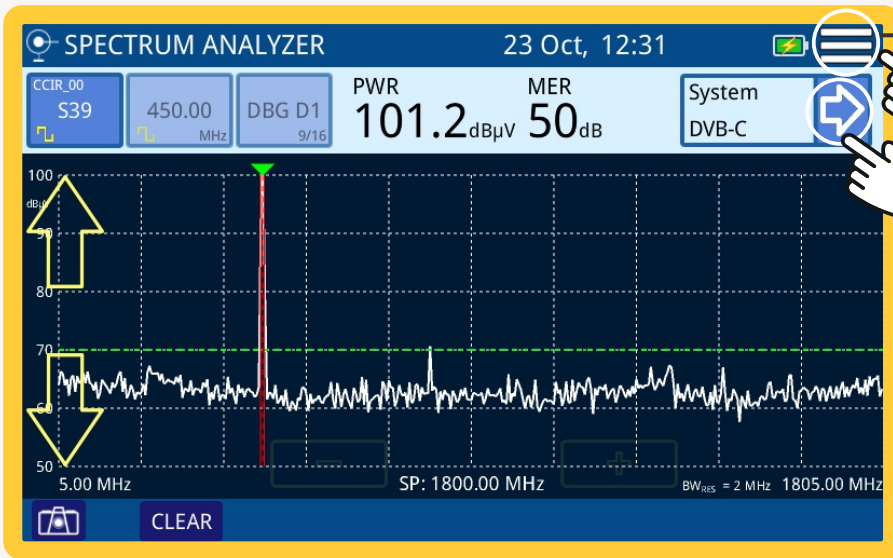


► **INPUT VOLTAGE**

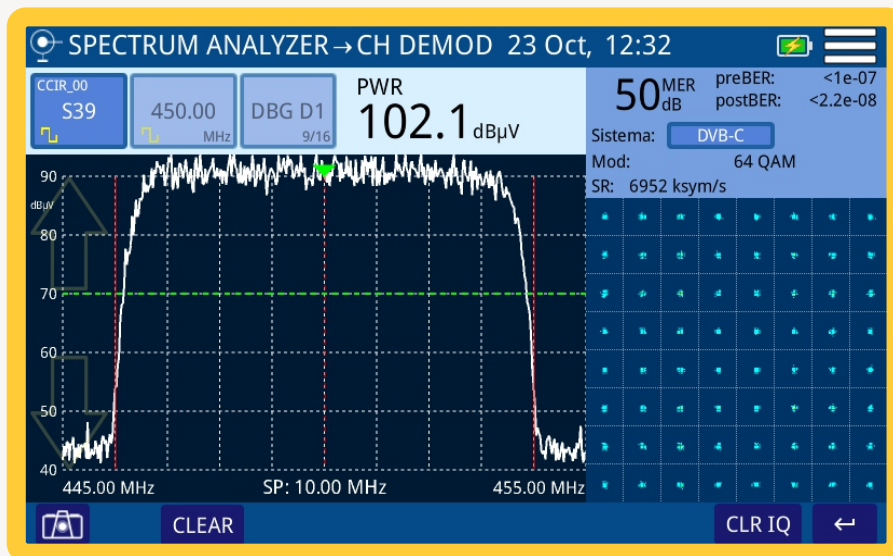




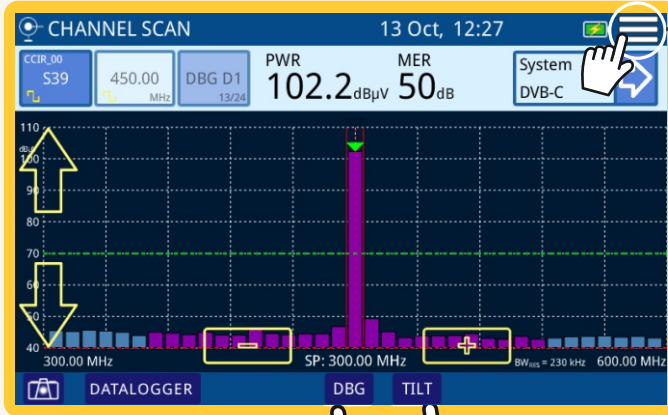
SPECTRUM ANALYZER



- Edit channel plan
 - Units
 - Reference line
 - Trace
 - CTB / CSO
 - Filter
 - Tuning frequency
- Navigation icons: X, Home, Power



SCAN / TILT



Edit channel plan

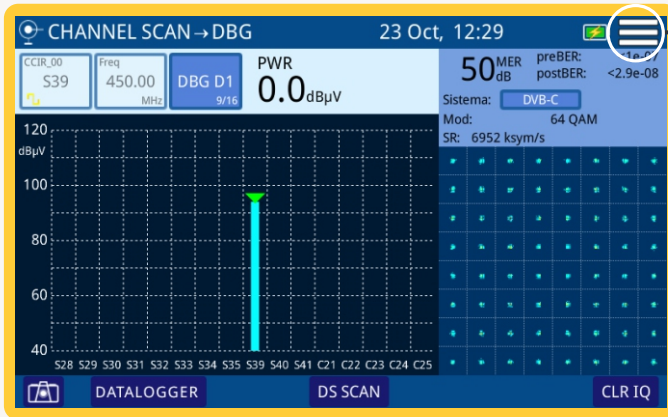
Units

Reference line

Threshold

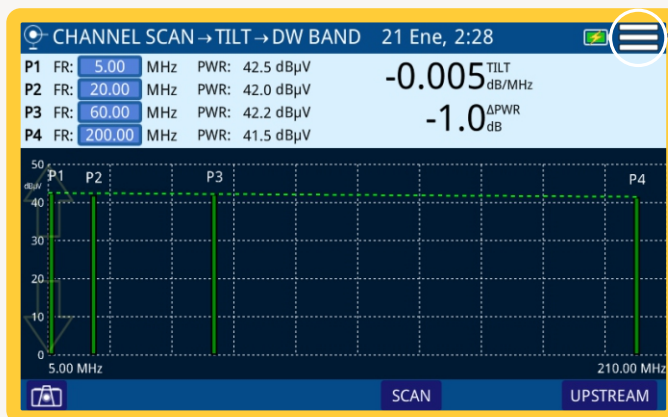
CTB / CSO

Navigation: X, Home, Power



Edit channel plan

Navigation: X, Home, Power



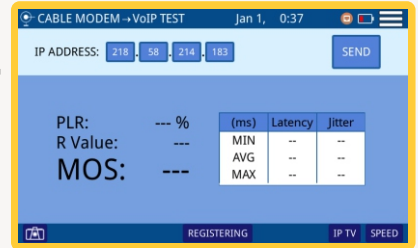
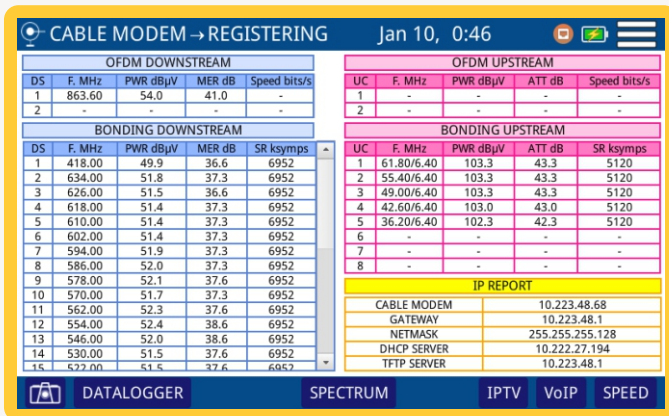
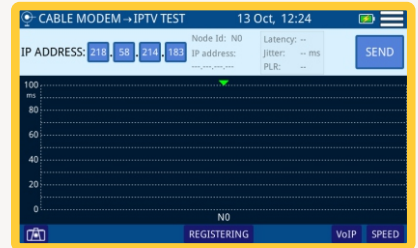
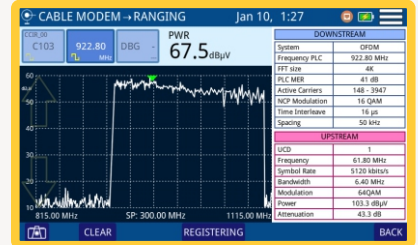
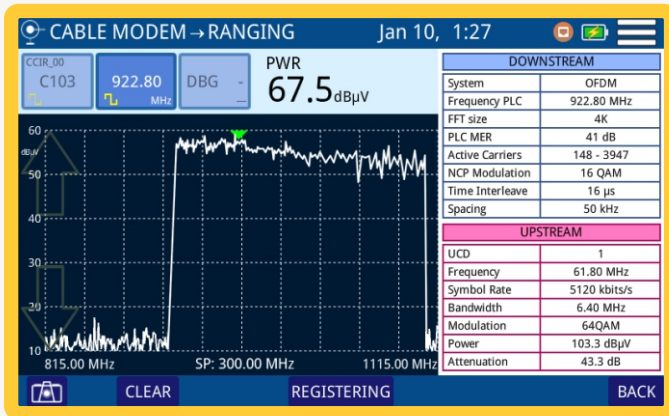
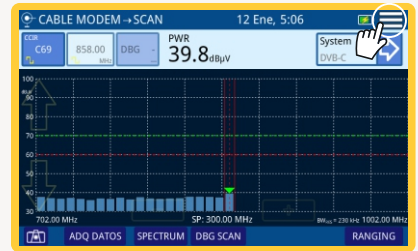
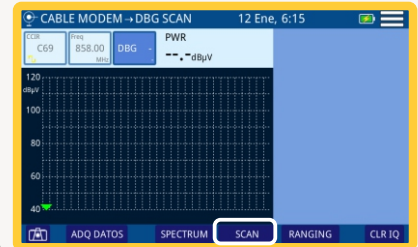
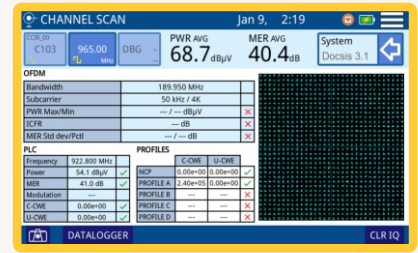
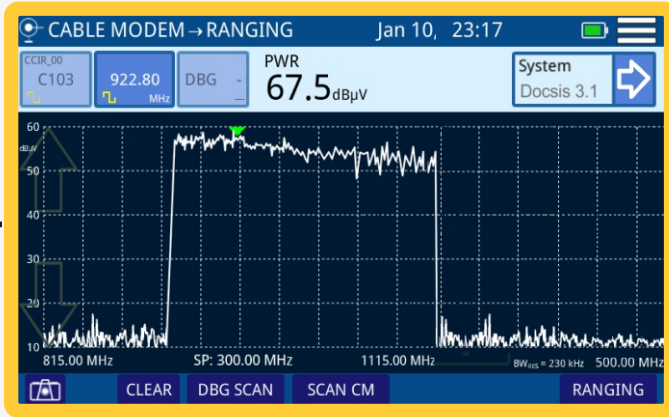
Units

Navigation: X, Home, Power

DOCSIS ► DOCSIS ANALYZER



ACCESS TO FUNCTIONS

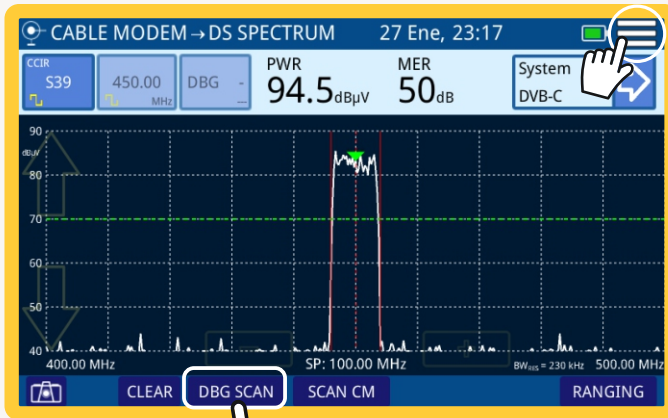


* OFDM DS only available for CABLE RANGER 3.1

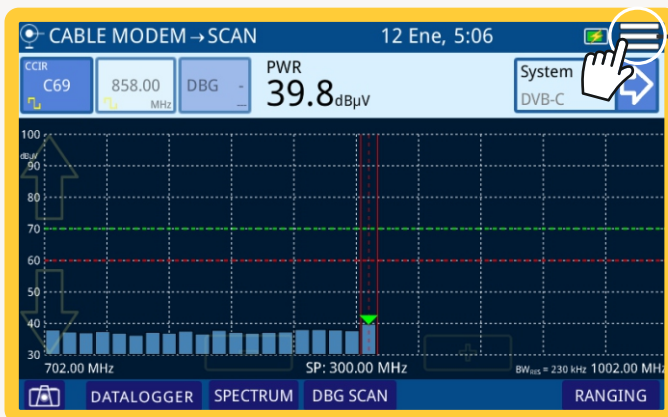
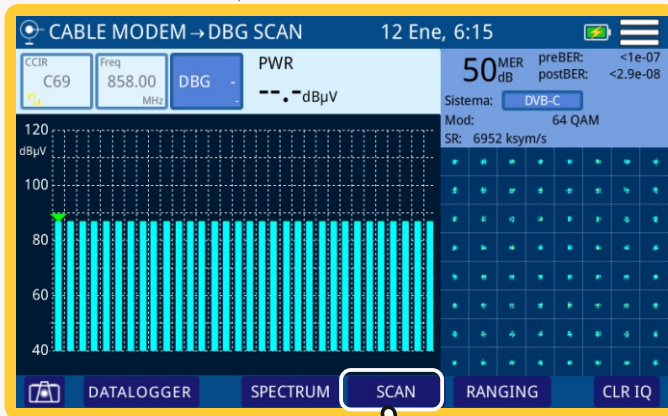
DOCSIS ► DOCSIS ANALYZER



CABLE MODEM SCAN / DBG SCAN



- Edit channel plan
- Units
- Reference line
- Trace
- CTB / CSO
- Filter
- Tuning frequency
- Att CM

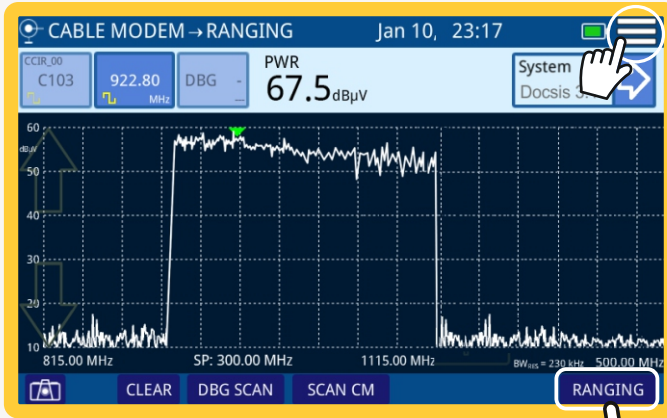


- Units
- Att CM

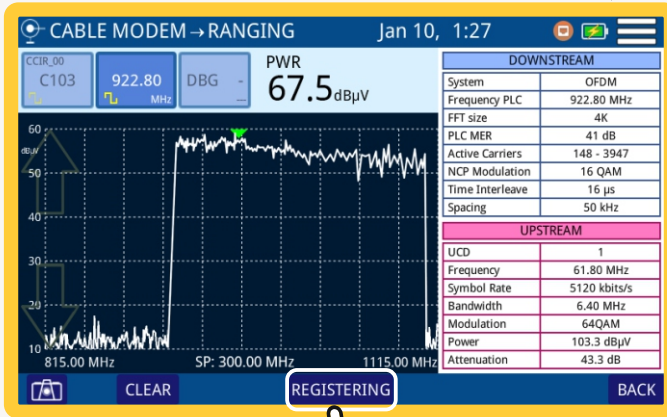
DOCSIS ► DOCSIS ANALYZER



SPECTRUM / RANGING / REGISTERING



- Edit channel plan
- Units
- Reference line
- Trace
- CTB / CSO
- Filter
- Tuning frequency
- Att CM



OFDM DOWNSTREAM				
DS	F. MHz	PWR dBµV	MER dB	Speed bits/s
1	863.60	54.0	41.0	-
2	-	-	-	-

OFDM UPSTREAM				
UC	F. MHz	PWR dBµV	ATT dB	Speed bits/s
1	-	-	-	-
2	-	-	-	-

BONDING DOWNSTREAM				
DS	F. MHz	PWR dBµV	MER dB	SR ksymps
1	418.00	49.9	36.6	6952
2	634.00	51.8	37.3	6952
3	626.00	51.5	36.6	6952
4	618.00	51.4	37.3	6952
5	610.00	51.4	37.3	6952
6	602.00	51.4	37.3	6952
7	594.00	51.9	37.3	6952
8	586.00	52.0	37.3	6952
9	578.00	52.1	37.6	6952
10	570.00	51.7	37.3	6952
11	562.00	52.3	37.6	6952
12	554.00	52.4	38.6	6952
13	546.00	52.0	38.6	6952
14	530.00	51.5	37.6	6952
15	522.00	51.5	37.6	6952

BONDING UPSTREAM				
UC	F. MHz	PWR dBµV	ATT dB	SR ksymps
1	61.80/6.40	103.3	43.3	5120
2	55.40/6.40	103.3	43.3	5120
3	49.00/6.40	103.3	43.3	5120
4	42.60/6.40	103.0	43.0	5120
5	36.20/6.40	102.3	42.3	5120
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-

IP REPORT	
CABLE MODEM	10.223.48.68
GATEWAY	10.223.48.1
NETMASK	255.255.255.128
DHCP SERVER	10.222.27.194
TFTP SERVER	10.223.48.1



It continues on next page.

DOCSIS ► DOCSIS ANALYZER



IPTV / VoIP / SPEED

CABLE MODEM → IPTV TEST 13 Oct, 12:24

IP ADDRESS: 218 . 58 . 214 . 183 Node Id: N0 Latency: --
 IP address: Jitter: -- ms
 PLR: --

100 ms
80
60
40
20
0

NO

REGISTERING VoIP SPEED

Enable RTPS

Nominal polling interval

X | Home | Power



CABLE MODEM → VoIP TEST Jan 1, 0:37

IP ADDRESS: 218 . 58 . 214 . 183

PLR: --- % (ms) Latency Jitter
 R Value: --- MIN -- --
 MOS: --- AVG -- --
 MAX -- --

REGISTERING IP TV SPEED

Ping data length

Ping number

Unsolicited grant size

Grants per interval

Nominal grant interval

Tolerated grant jitter

Codec

X | Home | Power



SPEED TEST 27 Feb, 14:40

Orange Espana (62.14.248.123)...
 CSUC (Barcelona) [0.83 km]: 53.63 ms

40.0 50.0 60.0 70.0 80.0 90.0 100.0

27.0 Mbps

DOWN

START

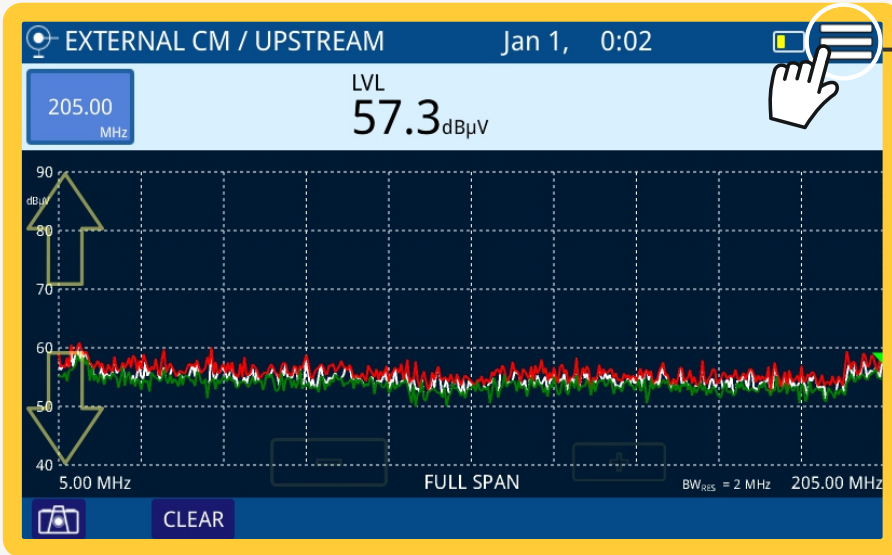
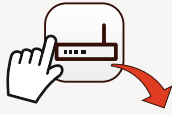
40.0 50.0 60.0 70.0 80.0 90.0 100.0

28.1 Mbps

UP

REGISTERING VoIP IP TV

EXTERNAL CM UPSTREAM SPECTRUM



- Units
- Reference line
- Frequency step
- Trace
- Filter

Navigation icons: X, Home, Power

UPSTREAM TEST



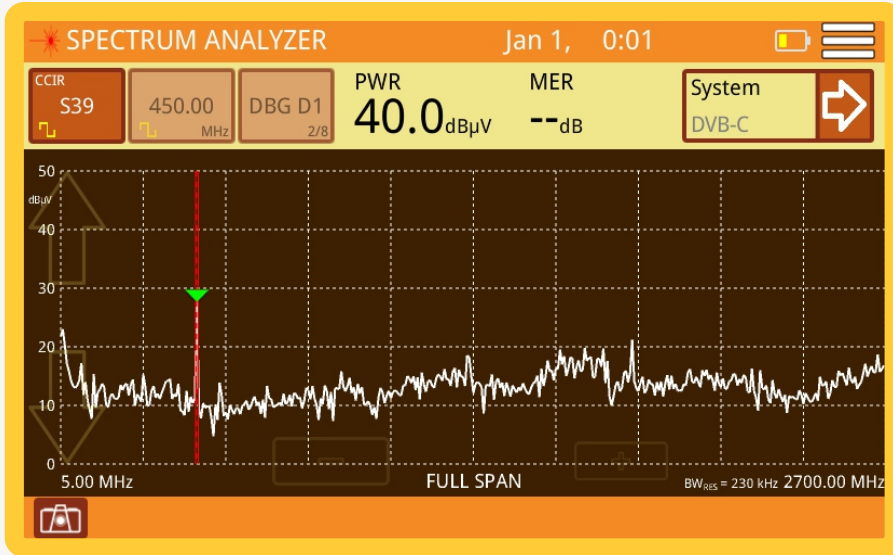
- Units

Navigation icons: X, Home, Power

▶ **RF over Glass**



SPECTRUM ANALYZER

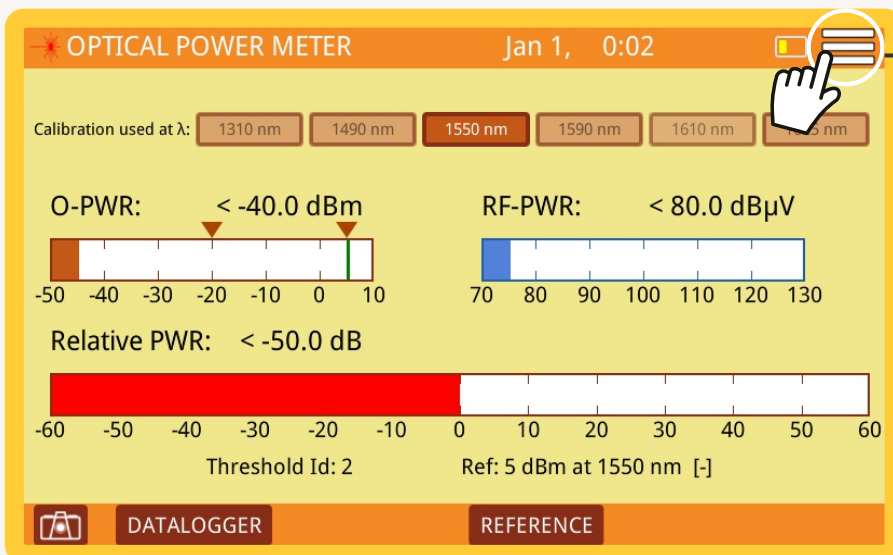


- Edit channel plan
- Units
- Reference line
- Trace
- CTB / CSO
- Filter
- Tuning frequency

✕ | 🏠 | 🔌

10

▶ **OPTICAL POWER METER**



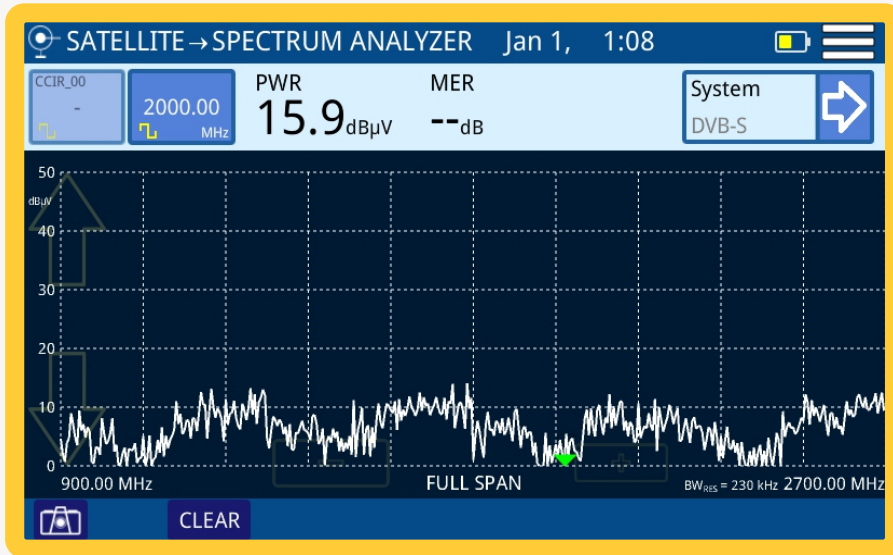
Define optical threshold

✕ | 🏠 | 🔌

10

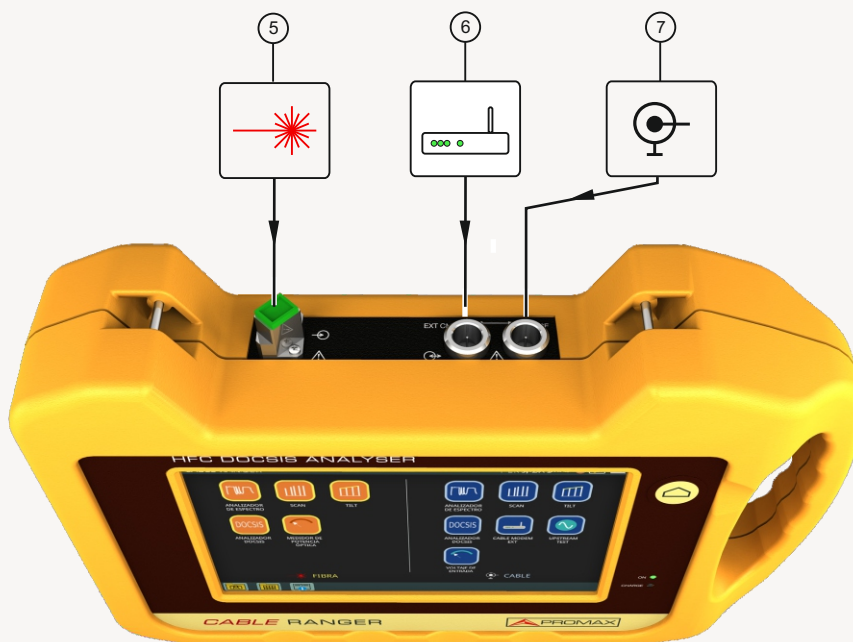


Additional function for satellite band



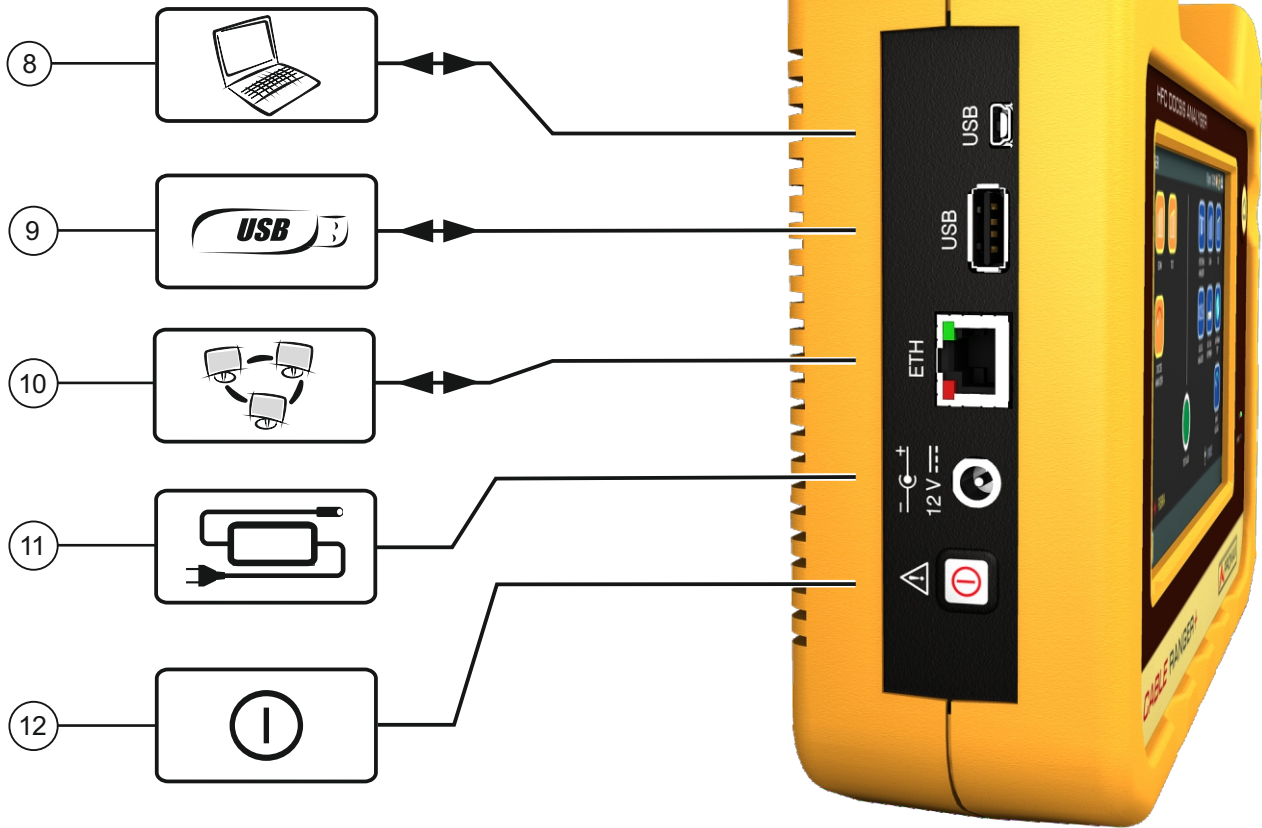
- Edit channel plan
 - Units
 - Reference line
 - Trace
 - Frequency step
 - Tuning frequency
 - LNB
- ✕ | 🏠 | ⏻

TOP VIEW



- ⑤ **SC-APC connector** (fibre optics signal input)
- ⑥ Universal connector for **F/F** or **F/BNC** adapter (external cablemodem input)
- ⑦ Universal connector for **F/F** or **F/BNC** adapter (RF input signal)

SIDE VIEW



- ⑧ **Mini-USB** connector for PC
- ⑨ **USB** connector for flashdrive device
- ⑩ **Ethernet** connector for network (WebControl)
- ⑪ **12 V DC power** input connector
- ⑫ **ON / OFF** button

