



NOTE: the special functions depend on the active operating mode: TV SAT or CATV

RIFLECTOMETER

The instrument, equipped with "SW RIFLECTOMETER App", allows you to check the correct impedance matching of a 75Ω distribution installation.

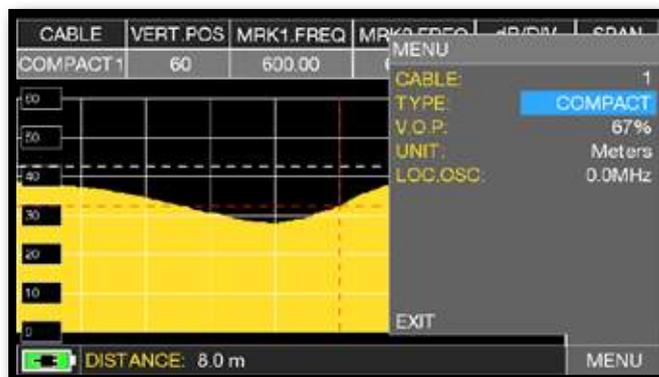
Through the use of calibrated noise generator (for Example ROVER mod. CNG 90 STC/CNG 70 USB), if in a distribution installation there was an impedance mismatch, such as a cable short-circuit, a cable cut or a not properly terminated cable to a 75 ohm dummy load, it will create a standing wave pattern that can be seen on the spectrum of the instrument as shown in the figures below.



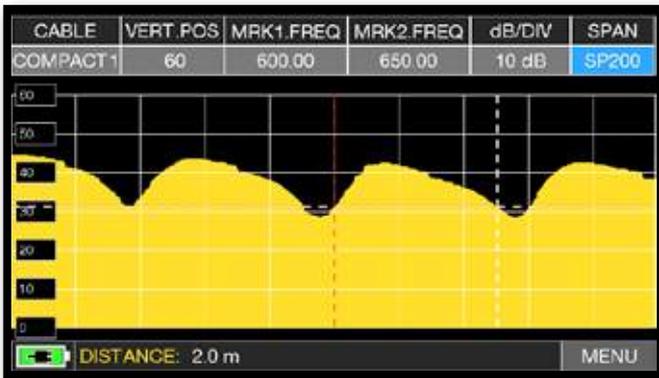
In TV mode press the "HOME" key.



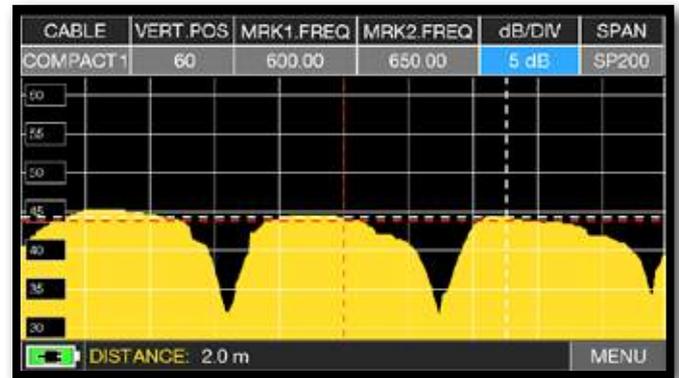
Touch "SPECIAL FUNCT" and then "REFLECTOMETER".



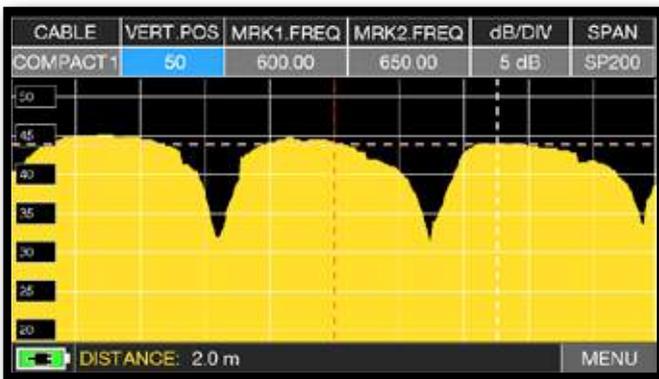
Touch "MENU" and set the features of the coaxial cable you need to analyze (see next page), at the end touch "EXIT".



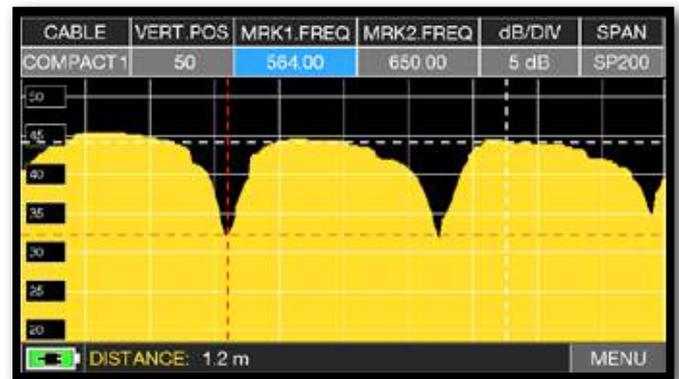
Touch "SPAN" and select the correct visualization value.



Touch "dB DIV" and select the correct visualization value.



Touch "VERT.POS" and select the correct visualization value.



Touch "MRK1.freq" then "MRK2.freq" and set the marker frequencies in correspondence with the first and second minimum points.

Example 1:



In the DISTANCE window, read the cable's mismatching value: example 1.5 m.

Example 2:



In the DISTANCE window, read the cable's mismatching value: example 1.5 m.

CONFIGURATION OF COAXIAL CABLES

Cable: from 1 to 5.

- Default coaxial cable configurations (adjustable).

TYPE: Type of cable to be tested.

- AIRSPACE: coaxial cable with dielectric in the air.
- COMPACT: coaxial cable with compact dielectric.
- FOAM: coaxial cable with foam dielectric.

V.O.P.: Propagation speed.

- Set the value provided by the cable manufacturer.

UNIT: Measurement unit.

- Set the value in meters or feet.

PICTURE: Spectrum graphics.

- Set the spectrum graphics mode to FULL or CONTOURS.

LOC.OSC.: LOCAL TV OSCILLATOR.

- Leave the value set by the manufacturer: 0 MHz.

CONNECTION DIAGRAM



NOTE: for more information about the "APP"s, contact your distributor or send an e-mail to: wecare@roverinstruments.com