

SEFRAM 7861-7862-7861HD-7862HD field strength meters enable seeing the spectrum of the received (terrestrial or satellite) TV signal. This application note provides an explanation for the different options of the TV meter for the terrestrial spectrum analysis.

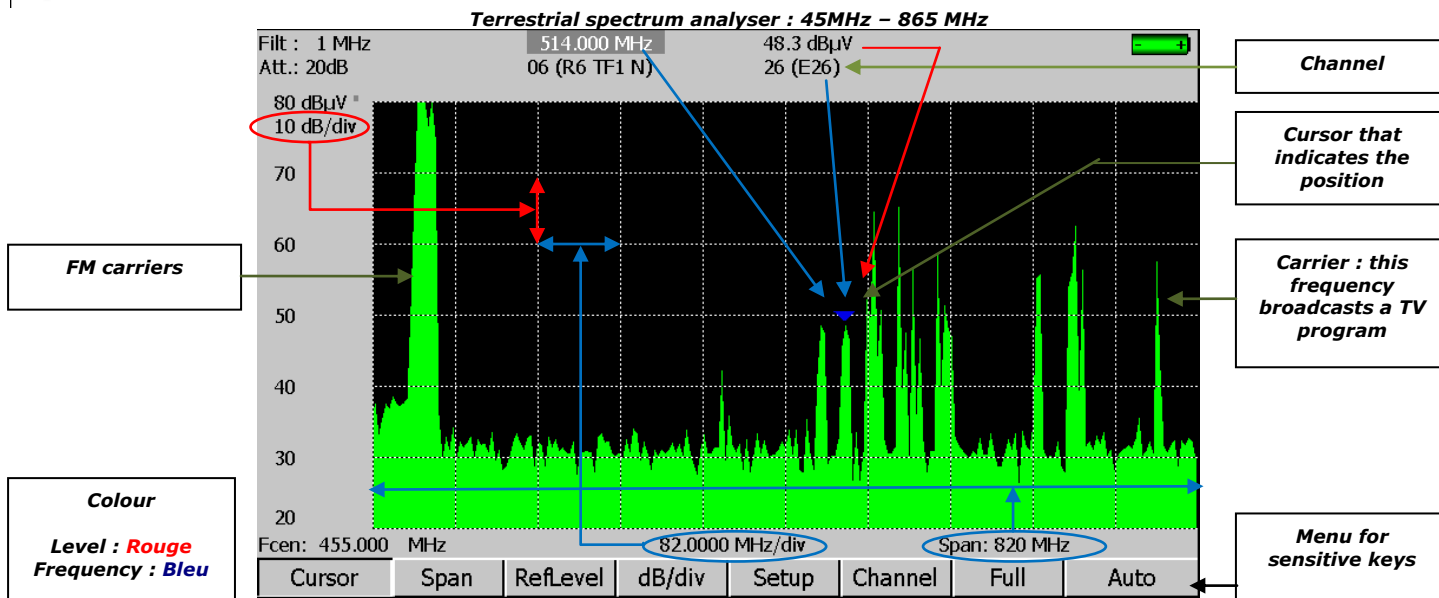
-Select a place in terrestrial frequency band and press the "Spectrum" key :



A window appears, it is the terrestrial spectrum(from 45 MHz up to 865 MHz). The abscissa axis represents the frequencies and the ordinate axis the reception levels (in dBµV).



To work on a spectrum, the antenna has to be pointed at the transmitter and the field strength meter parameters have to be defined correctly (see the application note : Using the TV meter for a terrestrial installation).



Menu for sensitive keys :



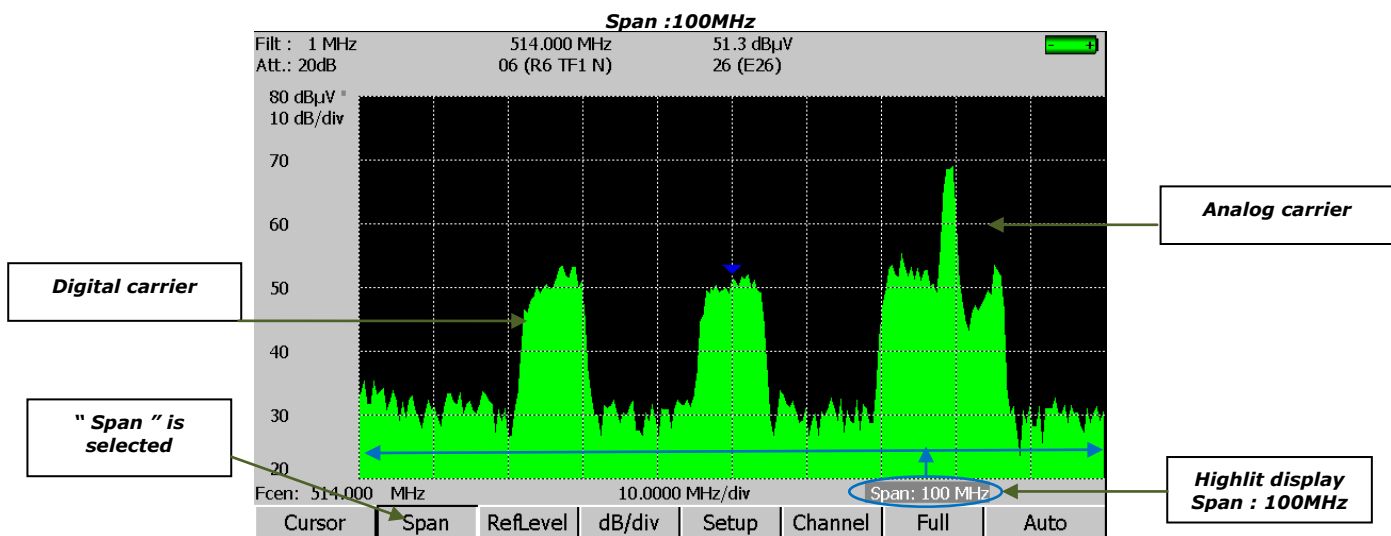
To modify a setting, press the corresponding sensitive key, then scroll through the different values with the sensitive wheel or with the direction keys.

When a setting is selected in the menu, the value that will be modified is highlight on the screen.

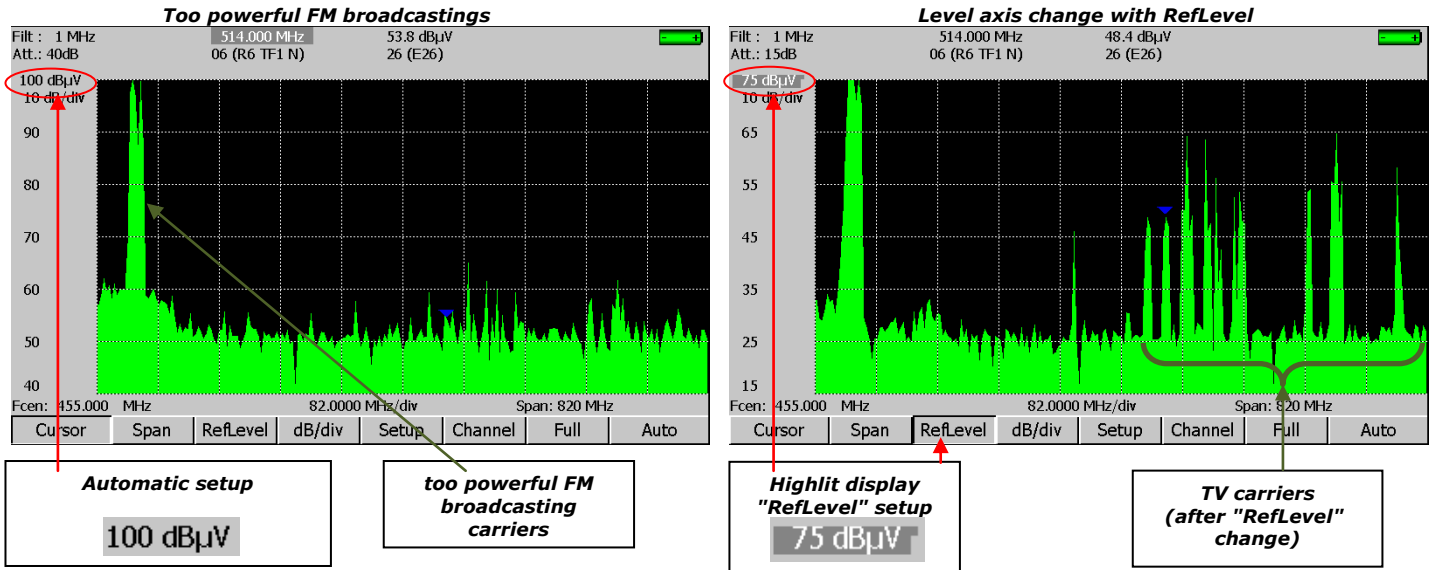
- **Cursor** : turn the sensitive wheel to move the blue cursor on the spectrum

- **Span** : it is the frequency band displayed on the screen. It allows zooming horizontally on a precise carrier. For example, once the map reduced, it is possible to distinguish the analog carriers from the digital ones (see the following example).

Minimum value : 10MHz / maximum value : 820MHz.



- **RefLevel** : allows adjusting the maximum value of the level axis (equivalent to a vertical zoom). For example, this function can be used when the FM carriers (FM on the left of the screen) are too powerful and prevent from distinguishing correctly the TV carriers (see the two following windows).



- **dB/div** : changes the value of a division (a square) on the level axis. Two values are possible : 10 dB/div or 5dB/div (equivalent to a vertical zoom).

- **Setup** : if setups are saved in the currently selected place, this button allows moving the cursor on the carrier that corresponds to the program.

- **Channel** : enables moving the blue cursor from channel to channel (according to the current frequency map). It puts the cursor on the exact channel frequency.

- **Full** : adjusts "Span" to its maximum value - 820 MHz, in order to see the terrestrial spectrum fully.

- **Auto** : activates/deactivates the automatic adjustment of the level scale. The indication "Auto" is displayed in the top left-hand corner of the screen if this mode is activated. The "Auto" mode selection cancels the changes made with "RefLevel"; any "RefLevel" modification deactivates the "Auto" mode.

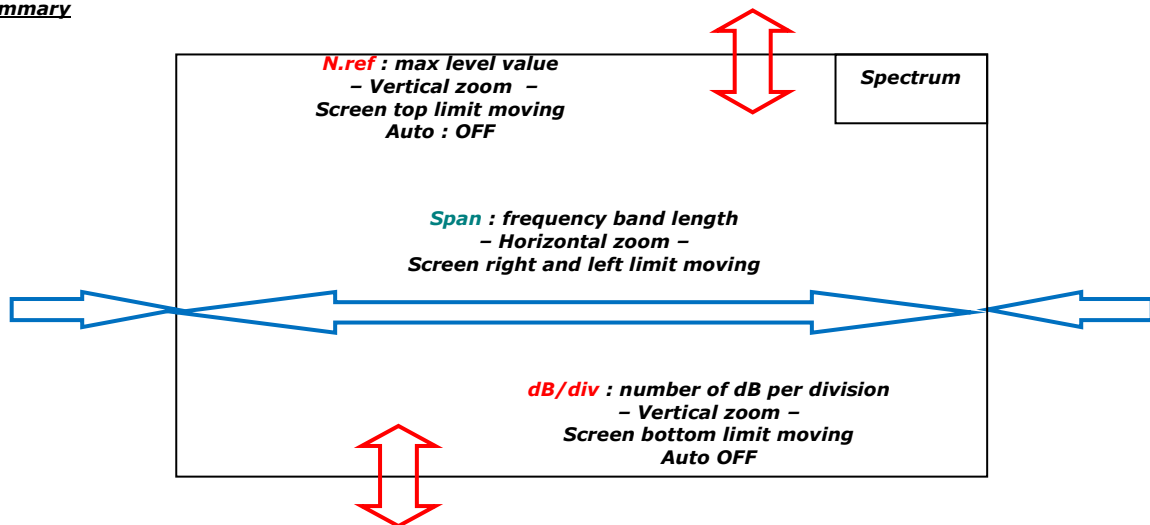
Filt : 1 MHz
Att.: 40dB auto

Indicates that the "Auto" mode is activated .



Note : the blue cursor position in frequency is saved at the menu change.

Scale change summary



Product link : http://www.sefram.com/wwwFR/F_quick_search.asp?st=7861