

# TV Meters catalogue

2009

Sefram

New  
DESIGN

Solutions for digital television

Product 

Large 7" screen  
with enhanced resolution



Capabilities 



New pouch  
for accessories



New option for Wi-fi  
networks measurement



BNC :  
easy to use

**Sefram**  
INSTRUMENTS & SYSTEMES

# A new family of TV meters for all your digital measurements



## Spectrum analysis

2 modes for spectrum analysis :  
 - ultra fast mode for satellite dish alignment  
 - expert mode for accurate signal diagnosis

#	Freq (MHz)	Std	Pwr (dBV)	C/N (dB)	CBER	BER	VBER	UNC	WER
4	11836.000	DVB-S	76.8	17.5	<1E-7	<3E-9	<9E-6	15.9	
5	11568.000	DVB-S	78.9	9.7	<1E-7	<3E-9	<9E-6	17.2	
6	11597.000	DVB-S	79.4	13.6	<1E-7	<3E-9	<9E-6	17.2	
7	10822.000	DVB-S	73.1	15.3	<1E-7	<3E-9	<9E-6	15.3	
8	11817.000	DVB-S	77.5	15.3	<1E-7	<3E-9	<9E-6	15.8	
9	11778.000	DVB-S	78.7	16.0	<1E-7	<3E-9	<9E-6	16.6	
10	11958.000	DVB-S	74.8	16.0	<1E-7	<3E-9	<9E-6	14.9	
11	12148.000	DVB-S	78.4	15.3	<1E-7	<3E-9	<9E-6	15.7	
12	11898.000	DVB-S	76.9	14.1	<1E-7	<3E-9	<9E-6	15.9	

## Frequency map:

Display and record of all measurements.



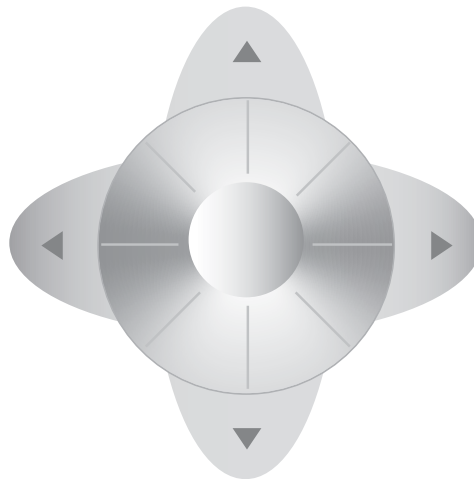
## Autoset mode:

Automatically search available channels for all TV standards.



## Checksat mode:

- Fast alignment of dish antenna
- Works with dual LNB antenna.



## Impulse response:

Allows fast check of echoes for terrestrial TV.



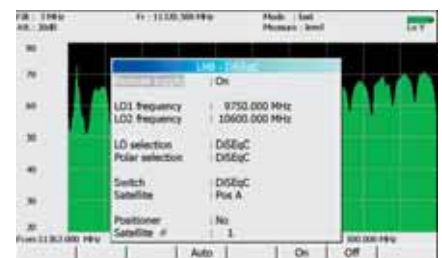
## GPS mode :

Record geographic position and signal characteristics.



## NIT:

Display terrestrial and satellite network name and information.



## DISEqC 1.2 :

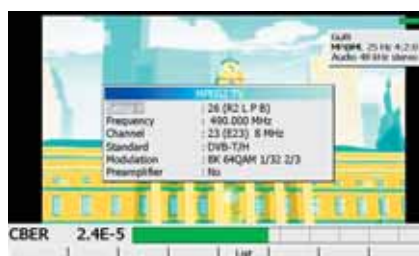
Drive switches and positioners.

**New feature**



## Software update :

Fast and Easy : no need to connect your TV Meter to a computer. A standard USB key is used to update the internal software.



## TV picture :

A new 7 inches LCD coloured screen is used to provide high quality TV pictures, for analogue and digital programs.



## Wifi measurements :

With the new option, you can perform measurement on Wifi networks.

# SEFRAM 7861 and 7862

For all your terrestrial, cable and satellite applications, analog and digital  
Fully compatible DVB-T, DVB-C, DVB-S and DVB-S2

Rugged carrying case

WARRANTY  
**2**  
YEARS

7 inch panoramic colour screen

## Sefram 7861 and 7862 :

- ▶ Frequency range : 45MHz to 2150MHz
- ▶ Full measurements for all modulations : QPSK, 8PSK, C-OFDM, MPEG-2 and MPEG-4
- ▶ Power, BER, MER for digital terrestrial TV, starting at 35dBµV

New feature

## Sefram 7862 :

- ▶ Includes QAM measurements.

Waterproof front panel

New feature



**Impulse response**  
implemented in SEFRAM 7861 and 7862  
Allows fast and accurate check of echoes for digital terrestrial TV



**New carrying pouch**  
for accessories  
P/N: 978656500  
Option for 7861 and 7862  
Supplied with 7863, 7865 and 7866



### Selection Guide

	SEFRAM 7861	SEFRAM 7862
DVB-T (C-OFDM). Full measurement	✓	✓
DVB-S / DVB-S2 (QPSK/8PSK). Full measurement	✓	✓
DVB-C (QAM)-Full measurement 45-865 MHz	-	✓
Fast spectrum analysis	✓	✓
Video Input and Output	✓	✓
Autoset mode	✓	✓
NIT (Network Identification Table)	✓	✓
Cell ID	✓	✓
Checksat Mode	✓	✓
Display TV programs for DVB-T	✓	✓
Display TV programs for DVB-S and DVB-S2 free TV	✓	✓
DISeqC	✓	✓
Display pay TV programs* for satellite	-	✓
Impulse response	✓	✓
Satellite identification on spectrum	✓	✓
Wi-fi networks measurements	option	option

\* user must have a valid subscription and encryption type must be compatible (check with our sales department).

# SEFRAM 7863, 7865, 7866

## The most complete TV Meters available on the market fully compatible with all standard DVB-T, DVB-S, DVB-S2, DVB-C

Sensitive push-buttons

**WARRANTY**  
**2 YEARS**

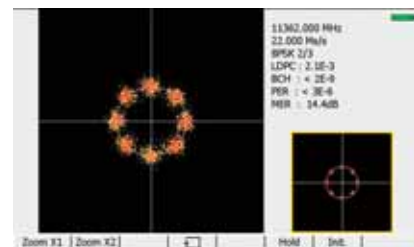
### Sefram 7865 and 7866

- ▶ Frequency range: 5MHz to 2150MHz
- ▶ Full measurements for all modulations: QPSK, 8PSK, C-OFDM, MPEG-2 and MPEG-4
- ▶ Power, BER, MER for digital terrestrial TV, starting at 35dBμV
- ▶ Constellation pattern

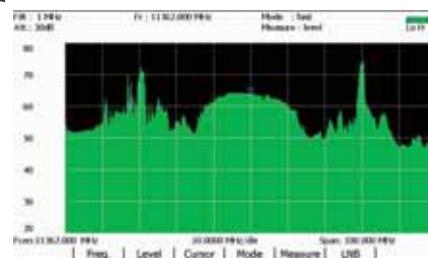
### Sefram 7863

- ▶ Frequency range: 5MHz to 865MHz
- ▶ Full measurements for QAM, J.83A and J.83B standards
- ▶ Display TV programs for DVB-C free TV
- ▶ Constellation pattern for DVB-C

Flat rotary encoder



Constellation pattern in DVB-S2



Spectrum analysis in "expert" mode for adjacent channels investigations.



### GPS function

For 7866, to map your measurements

### Selection Guide

SEFRAM 7863 SEFRAM 7865 SEFRAM 7866

DVB-T (C-OFDM). Full measurement	-	✓	✓
DVB-S / DVB-S2 (QPSK/8PSK). Full measurement	-	✓	✓
DVB-C (QAM)-Full measurement including return path	✓	✓	✓
Fast spectrum analysis. (Basic mode) and expert mode	✓	✓	✓
NIT (Network Identification Table)	-	✓	✓
Cell ID	-	✓	✓
Checksat Mode	-	✓	✓
Display TV programs for DVB-T	-	✓	✓
Display TV programs for DVB-S and DVB-S2 free TV	-	✓	✓
Impulse response	-	✓	✓
Display TV programs for DVB-S and DVB-S2 pay TV*	-	✓	✓
Video Input and Output	✓	✓	✓
OSD TV	✓	✓	✓
Recorder Mode (graphical)	✓	✓	✓
Constellation display	✓	✓	✓
Audio & video PID information	✓	✓	✓
Frequency response	-	✓	✓
DiSeqC for driving switches and dish antennas (full)	-	✓	✓
GPS	-	-	✓
ASI output	-	-	✓
Satellite identification on spectrum	-	✓	✓
Wi-fi networks measurements	-	option	option

\* user must have a valid subscription and encryption type must be compatible (check with our sales department).

# New optional feature for all models (Sefram 7861 to 7866)

## Measurements of Wifi signals

➤ The new family of TV Meters makes possible measurements of Wifi signals.

### User will get all necessary information:

- channel information
- SSID
- frequency
- symbol rates available
- power measurement (in dBm)

➤ The Wifi kit includes the USB Wifi adaptor and the specific software for the TV Meter.

**Note: Wifi measurements are possible only with the adaptor supplied by SEFRAM.**  
P/N : 978651000



## Robust, Easy to use and accurate for all your digital applications

### Capabilities :

- New shockproof housing for extensive field use
- Easy-to-use with direct access to functions
- Record of measurements, frequency maps and programs
- Supplied with: 8 NiMH batteries, mains adaptor and BNC/F adaptor
- USB interface



### Dedicated to terrestrial TV/DVB-T :

SELECTION GUIDE	SEFRAM 7803B
Frequency band	45 MHz to 865 MHz
Dynamic range	20dBµV to 120 dBµV
C-BER / V-BER	yes
MER	yes
Spectrum	yes
Constellation	yes
Autonomy	3 hours
Remote supply	order 7803BT

- Analog and digital terrestrial TV measurements
- MPEG-2 and MPEG-4 stream measurements
- Spectrum analysis and constellation pattern
- USB interface

### Dedicated to cable : TV/DVB-C and internet application J83-A and J83-B standard

SELECTION GUIDE	SEFRAM 7804B
Frequency band	5 MHz to 865 MHz
Dynamic range	20dBµV to 120 dBµV
C/N measurement	yes
BER, MER	yes
Spectrum	yes
Constellation	yes
Autonomy	3 hours
Remote supply	order 7804BT

- Analog and digital TV measurements for QAM & COFDM
- Fully compatible with J83-A and J83-B standard
- Spectrum analysis and constellation pattern
- USB interface

# ROBUST, EASY TO USE AND ACCURATE

## For all your digital applications

Dedicated to satellite  
TV/DVB-S :

CARACTERISTIQUES TECHNIQUES	SEFRAM 7805B
Frequency band	900 MHz to 2150 MHz
Dynamic range	30dB $\mu$ V to 110 dB $\mu$ V
C/N measurement	yes
BER, MER	yes
Spectrum	yes
Checksat mode	yes
Autonomy	3 hours
Remote supply	yes

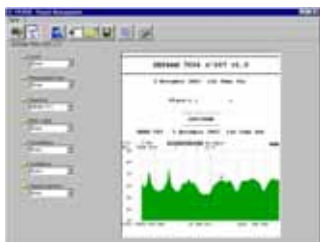


**Sefram 7805B :**

- Fully compatible with DVB-S and DVB-S2
- BER, MER measurement in QPSK and 8PSK
- Spectrum analysis
- USB interface
- DISEqC 1.2

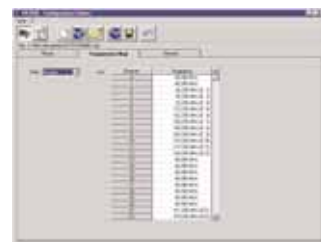
## KIT TR7836

### Software compatible with all SEFRAM TV Meters



**TR7836 software allows to :**

- ▶ Create and upload frequency maps and programs
- ▶ Download measurements saved in your TV Meter
- ▶ Generate measurements report with Excel®



## Best value accessories for your TV Meters



Car cigarette  
lighter adaptor  
P/N: 978366100



Luxury  
carrying pouch  
P/N: 978360000



Carrying pouch  
for accessories  
P/N: 978656500

SEFRAM TV Meters are designed and manufactured in our plant of Saint-Etienne (France)  
**Any question? Please do not hesitate to call our technical support +33 (0)4 77 59 36 97**

Specifications subject to change without notice - FTMESUR2009A



32, rue Edouard Martel  
B.P. 55 - 42009 St Etienne Cedex - France  
+33 (0).4.77.59.36.81 - Fax. +33. (0).4.77.57.23.23  
Web : [www.sefram.fr](http://www.sefram.fr) • e-mail : [sales@sefram.fr](mailto:sales@sefram.fr)



For assistance and ordering