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# SEFRAM 7807

## The ideal companion for Digital Cable TV Display SD\* and HD\* TV programs

### Robust and easy to use

With only 5 keys on the front panel, you access directly to all measurements. We add a quick guide in the top cover to remind all functions and menus. The new rugged plastic housing is designed for extensive field use and protects sensitive parts of the instrument.

### All DVB-C and MCNS measurements

The 7807 provides all measurements in DVB-C/MCNS (J.83A and J.83B) You will have : BER, MER and lost packets.

### LCD colour display with display of MPEG-2 and MPEG-4 TV programs

The 7807 offers a bright LCD TFT display for measurements results and for free-to-air TV programs (MPEG-2 and MPEG-4).

### All necessary functions available to analyse signals

The 7807 includes a spectrum analyser, display the constellation diagram in QAM.

**J.83A and J.83B**

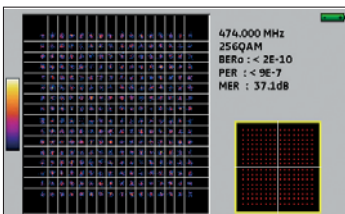
**NEW 2010**



**SEFRAM 7807**

### USB interface

The 7807 includes two USB interfaces for updating and getting the benefit of free firmware updates. They can be used to transfer data to a computer to create reports when you measurements campaigns are done.

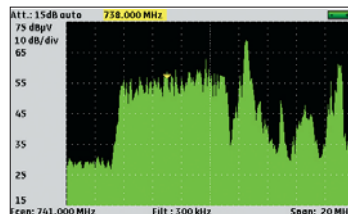


Constellation diagram

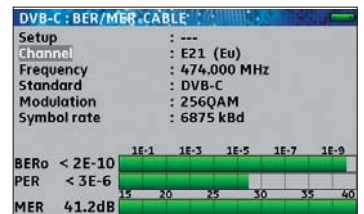
Measurement mjbp CABLE

freq.	std	RF	C/N	BER1	BER0	PER	MER
139.125	DVB-C	65.0	29.9	<1E-9	<9E-6	34.4	
195.125	DVB-C	64.5	39.8	<1E-9	<9E-6	35.2	
267.125	DVB-C	62.8	30.2	<1E-9	<9E-6	36.2	
775.125	DVB-C	64.3	32.5	<1E-9	<9E-6	34.1	
518	DVB-C	64.1	33.7	<1E-9	<9E-6	34.5	
515.125	DVB-C	63.4	32.5	<1E-9	<9E-6	34.4	
525.125	DVB-C	61.9	31.1	<1E-9	<9E-6	33.8	
547.125	DVB-C	61.8	29.7	<1E-9	<9E-6	34.8	

Channels monitoring



Fast spectrum analysis



BER - MER in QAM

## Specifications

## SEFRAM 7807

<b>Frequency</b>	
Range	5-865 MHz
Resolution	50kHz
<b>Level measurement</b>	
Dynamic range	20-120 dB $\mu$ V
Units	dB $\mu$ V, dBmV, dBm, V
Accuracy	$\pm 2\text{dB} \pm 0.05\text{dB}/^\circ\text{C}$
Resolution	0,1dB
Measurement filter	300kHz
Standards	B, G, D, K, I, L, M, N, FM, DVB-T/H
<b>Digital measurements</b>	
Error rate measurement	DVB-C and MCNS CBER (before correction), UNC/PER (lost packets)
Modulation error rate (MER)	20-40dB
Symbol rate	DVB-C: 1 to 7.224Ms/s MCNS: 1 to 5.563Ms/s
Standard	UIT-J.83 annexe A et annexe B
<b>Spectrum analysis</b>	
Sweep rate	150 ms typical, 400 points
Filter	1 MHz
Attenuator	automatic (0 to 60 dB, with 10 dB steps)
Dynamic (display)	60 dB (10 dB/div)
Span	0, 5, 10, 20, 50, 100, 200, 500MHz and full span
<b>Measurement map</b>	
Capacity	scrolling of 50 programs max.
Display	texte
<b>Constellation diagram</b>	
Display	graphical display, 16-32-64-128-256 in DVB-C and 64-256 in MCNS
<b>Memory</b>	
Data	frequency maps, measures, spectrum, constellation diagrams
Capacity	1000 files max.
<b>Input / Output</b>	
Interface	USB A and USB mini B
Power supply input	15V / 1A with 5.5mm jack
<b>Remote supply</b>	
Voltage	5/13/18/24V, 500 mA max (300mA max. for 24V)
<b>RF input</b>	
Connector	75 Ohms (F type or BNC type with adaptors supplied)
Maximum input voltage	80 V DC, 80 Vrms./50Hz
<b>Audio and video decoding</b>	
Audio	digital TV sound: AAC, HE-AAC, Dolby Digital, Dolby Digital Plus
Video	digital TV programs: MPEG2, MPEG4 576i, 720p, 1080i free to air
<b>General Specifications</b>	
Display	TFT coloured LCD, 4.3 inches (16:9), with backlight
Power supply	main adaptor 100-240V, 15V DC / 1A output
Battery (non removable)	Lithium Ion, 10.8V/2.25Ah (life time 200 charge/discharge)
Autonomy	2 hours 15mn (typical) with HD TV picture and remote supply
Charging time	full charge of the battery in 2H15 (instrument switched-off)
Operating temperature	-5°C to 45°C
Storage temperature	-10°C to 60°C
EMC and safety	EN-61010-1, EN61326-A1 and A2, EN55022 (B)
Dimensions	200 x 190 x 100 mm
Weight	1,5kg

**Supplied** : main charger/adaptor, user manual on CD-ROM, F/BNC and F/F adaptor, carrying belt.

**Optional accessories** : USB cable (A to mini B): P/N. 978551100  
Car cigare lighter adaptor: P/N 978361000  
F/F adaptor : P/N 213200015

*Dolby Digital and Dolby Digital Plus are trade mark of Dolby Laboratories*



FT7807 A00 - Specifications can be updated without notice



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## For assistance and ordering

