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Sefram
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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

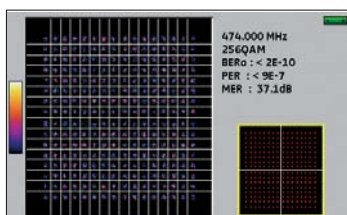
NEW
2010



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USB interface

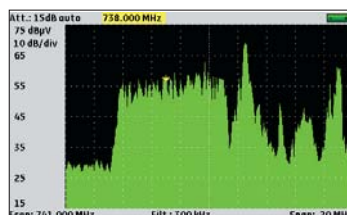
The 7807 includes two USB interfaces for updating and getting the benefit of free firmware updates. They can be used to transfer data to a computer to create reports when you measurements campaigns are done.



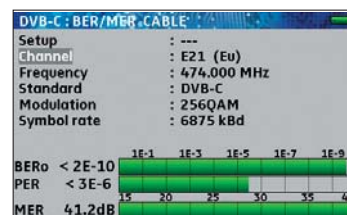
Constellation diagram

Measurement mjbp CABLE							
freq.	std	RF	C/N	BERi	BERo	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



* free to air





SEFRAM 7807

Specifications

SEFRAM 7807

Frequency	
Range	5-865 MHz
Resolution	50kHz
Level measurement	
Dynamic range	20-120 dB μ V
Units	dB μ V, dBmV, dBm, V
Accuracy	± 2 dB \pm 0.05dB/ $^{\circ}$ C
Resolution	0,1dB
Measurement filter	300kHz
Standards	B, G, D, K, I, L, M, N, FM, DVB-T/H
Digital measurements	
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
Spectrum analysis	
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
Measurement map	
Capacity	scrolling of 50 programs max.
Display	texte
Constellation diagram	
Display	graphical display, 16-32-64-128-256 in DVB-C and 64-256 in MCNS
Memory	
Data	frequency maps, measures, spectrum, constellation diagrams
Capacity	1000 files max.
Input / Output	
Interface	USB A and USB mini B
Power supply input	15V / 1A with 5.5mm jack
Remote supply	
Voltage	5/13/18/24V, 500 mA max (300mA max. for 24V)
RF input	
Connector	75 Ohms (F type or BNC type with adaptors supplied)
Maximum input voltage	80 V DC, 80 Vrms./50Hz
Audio and video decoding	
Audio	digital TV sound: AAC, HE-AAC, Dolby Digital, Dolby Digital Plus
Video	digital TV programs: MPEG2, MPEG4 576i, 720p, 1080i free to air
General Specifications	
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 $^{\circ}$ C to 45 $^{\circ}$ C
Storage temperature	-10 $^{\circ}$ C to 60 $^{\circ}$ 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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