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SEFRAM 7847

The ideal companion for Digital Terrestrial TV (DVB-T and DVB-T2) and Satellite TV (DVB-S and DVB-S2) 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. Using the 7847 is intuitive. The new rugged plastic housing is designed for extensive field use and protects sensitive parts of the instrument.

All digital measurements in DVB-T/T2, DVB-S and DVB-S2

The 7847 provides all measurements in DVB-T/T2, DVB-S and DVB-S2. You will get : BER, MER, lost packets and noise margin/link margin.

SEFRAM 7847 : remote supply from 5V to 24V is included

When the remote supply is needed for external amplifiers and LNB, the 7847 will offer the following voltages 5V, 13V, 18V and 24V. The TV meter provides DiSEqC 1.2 and SatCR compatibility.

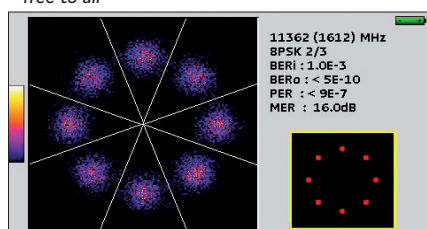
LCD colour display with display of MPEG-2 and MPEG-4 TV programs

The 7847 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 and ease your job

The 7847 includes a spectrum analyser, display the constellation diagram (DVB-S/S2 and DVB-T/T2) and the echoes (guard interval) for DVB-T/T2.

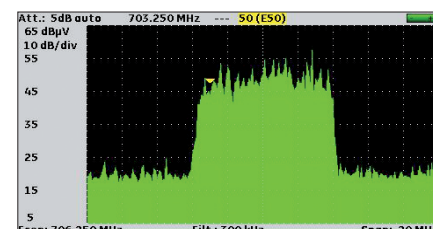
* free to air



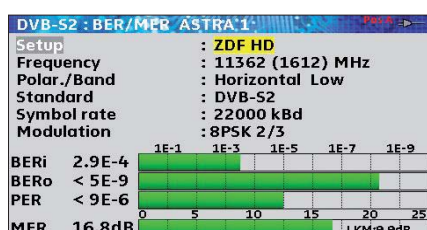
Constellation diagram in DVB-S2

Lists AST+ST-ET				
List #	: 9 AST+ST-ET			
#	name	place	frequency	configuration
363	R1 CH PU	ST-ETIENNE	E50	---
364	R2 L P B	ST-ETIENNE	E23	---
365	R3 CANAL	ST-ETIENNE	E39	---
366	R4 MG AB	ST-ETIENNE	E54	---
367	R5 HD	ST-ETIENNE	E29	---
368	R6 TF1 N	ST-ETIENNE	E26	---
0	DIGITAL+	ASTRA 1	10729 VL	---
1	ARD	ASTRA 1	10743 HL	---
2	SKY D	ASTRA 1	10775 HL	---

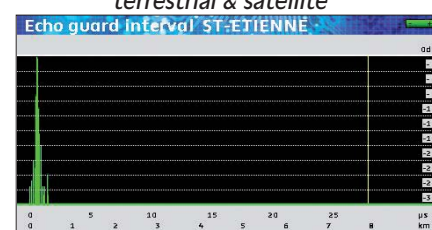
Channels monitoring terrestrial & satellite



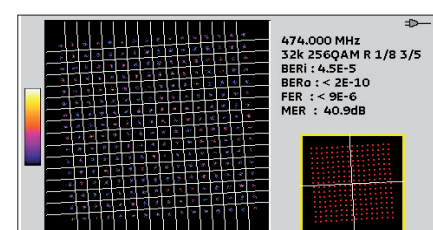
Fast spectrum analysis



All digital measurements



Echoes display with guard interval



Constellation diagram in DVB-T2



DVB-T
DVB-T2
DVB-S
DVB-S2

**SEFRAM
7847**



SEFRAM 7847

Panoramic TV Meter

Specifications

	Terrestrial band	Satellite band
Frequency		
Range	45-865 MHz	950-2150 MHz
Resolution	50kHz	1 MHz
Level measurement		
Dynamic range	20-120 dBuV	40-110 dBuV
Units	dBuV, dBmV, dBm, V	dBuV, dBmV, dBm, V
Accuracy	$\pm 2\text{dB} \pm 0.05\text{dB}/^\circ\text{C}$	$\pm 2\text{dB} \pm 0.05\text{dB}/^\circ\text{C}$
Resolution	0.1dB	0.1dB
Measurement filter	300kHz	1MHz
Standards	B, C, D, K, I, L, M, N, FM, DVB-T/H	PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS
Digital measurements	DVB-T/H	DVB-T2
Error rate measurement	BERi (before Viterbi correction), UNC/PER (lost packets), NM (Noise Margin) BCH (after LDPC)	BERo (after Viterbi correction), "Before LDPC" FER (lost packets, after BCH)
Modulation error rate (MER)	0-35dB	0-35dB
Symbol rate	-	-
Bandwidth	5, 6, 7 or 8 MHz	5, 6, 7 or 8 MHz
Viterbi	1/2, 2/3, 3/4, 5/6, 7/8 (auto)	1/2, 2/3, 3/4, 3/5*, 4/5*, 5/6, 6/7, 7/8, 8/9*, 9/10* (auto)
Guard Interval	1/32, 1/16, 1/8, 1/4 (auto)	-
Carriers	2k / 8k (auto)	1k, 2k, 4k, 8k, 16k, 32k
Constellation diagram	graphical display	graphical display
Standard	EN 301-701	ETS 300-421 / ETS 302 307
Spectrum analysis		
Sweep rate	150 ms typical, 400 points	350 ms typical, 400 points
Filter	300kHz	1 MHz, 3MHz
Attenuator	automatic (0 to 60 dB, with 10 dB steps)	automatic (0 to 60 dB with 10 dB steps)
Dynamic (display)	60 dB (10 dB/div)	60 dB (10 dB/div)
Span	0, 5, 10, 20, 50, 100, 200, 500MHz and full span	0, 50, 100, 200, 500, 1000 MHz and full span
Checksat mode	-	-
	-	-
	-	-
	-	-
Measurement map		
Capacity	scrolling of 50 programs max.	
Display	texte	
Constellation diagram	graphical display, with X1, X2, X3 zoom	
Display	graphical display, with X1, X2, X3 zoom	
Memory		
Data	frequency maps, measures, spectrum, constellation diagrams, echoes	
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)	
DiSEqC	-	-
22 kHz (mini DiSEqC)	-	-
SatCR	-	-
RF input		
Connector	75 Ohms (F type and BNC 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 charges/discharge)	
Autonomy	2 hours 15mn (typical) with HD TV picture and remote supply in terrestrial	
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	
Warranty	2 years	

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

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



FT7847 A01- Specifications can be updated without notice



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