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Sefram

Make sure to visit our Website
http://www.sefram.fr

SEFRAM 7846

The ideal companion for Digital Terrestrial TV (DVB-T) 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 7846 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, DVB-S and DVB-S2

The 7846 provides all measurements in **DVB-T, DVB-S and DVB-S2.** You will get : BER, MER, lost packets and noise margin/link margin.

SEFRAM 7846 : remote supply from 5V to 24V is included

When the remote supply is needed for external amplifiers and LNB, the 7846 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 7846 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 7846 includes a spectrum analyser, display the constellation diagram (DVB-S/S2 and DVB-T) and the echoes (guard interval) for DVB-T.

** free to air*

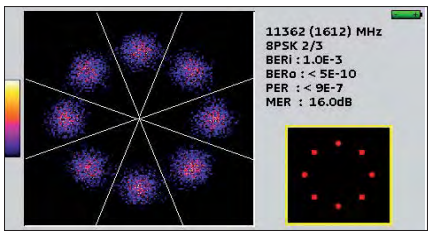


Fast checksat mode : save you time for dish alignment

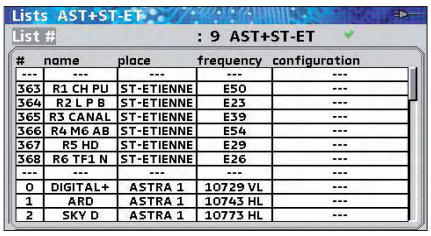
The 7846 includes a very fast checksat mode for dish alignment. User will have a graphical information combined with a beeper.

USB interface

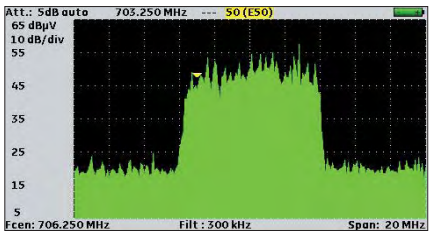
The 7846 includes two USB interfaces for updating and getting the benefit of free firmware updates. They can be used to transfer data to a computer to create reports when you measurements campains are done.



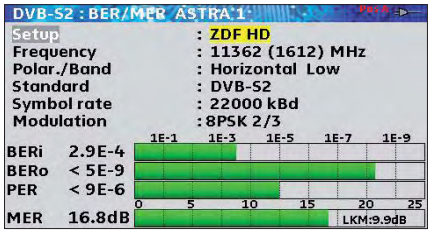
Constellation diagram



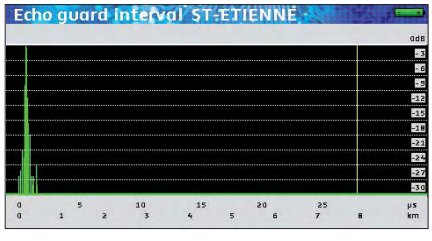
Channels monitoring terrestrial & satellite



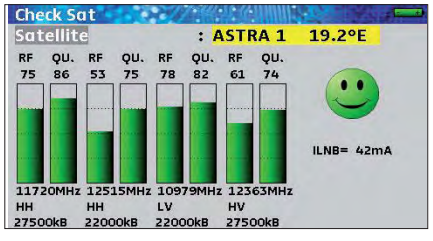
Fast spectrum analysis



All digital measurements



Echoes display with guard interval



Fast checksat mode for dish alignment

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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 dBµV	40-110 dBµV
Units	dBµV, dBmV, dBm, V	dBµV, dBmV, dBm, V
Accuracy	±2dB ± 0.05dB/°C	±2dB ± 0.05dB/°C
Resolution	0,1dB	0,1dB
Measurement filter	300kHz	1MHz
Standards	B, G, D, K, I, L, M, N, FM, DVB-T/H	PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS
Digital measurements	**DVB-T/H**	**DVB-S / DVB-S2* / DSS**
Error rate measurement	BERi (before Viterbi correction), BERo (after Viterbi correction), UNC/PER (lost packets), NM (Noise Margin)	BERi, BERo, UNC, PER, LKM
Modulation error rate (MER)	0-35dB	0-20dB
Symbol rate	-	1-45Ms/s
Bandwidth	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)	-
Constellation diagram	graphical display, with zoom	graphical display, with zoom
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	300 kHz	1 MHz
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, 5, 10, 20, 50, 100, 200, 500, 1000 MHz and full span
Checksat mode		
	-	fast satellite search
	-	30 satellites max
	-	4 transponders per satellite, with NIT
Measurement map		
Capacity	scrolling of 50 programs max.	
Display	texte	
Constellation diagram		
Display	graphical display, with X1, X2 zoom	
Memory		
Data	frequency maps, measures, spectrum, constellation diagrams, echoes	
Capacity	1000 files max.	
Input / Ouput		
IInterface	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) 13/18 V for satellite	
DiSEqC	-	DiSEqC 1.2: dishes, committed and uncommitted switches
22 kHz (mini DiSEqC)	-	22 kHz / 0,6V cc
SatCR	-	DiSEqC protocole extension, 8 slots maximum
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 charge/discharge)	
Autonomy	2 hours 15mn (typical) with 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	
Warranty	1 year	

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**

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FT 7846A00 - Specifications can be updated without notice

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