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SEFRAM 7861HD

State-of-Art Specifications for High Definition TV

Capabilities

- Panoramic 7 inch LCD coloured screen
- Weight: 2,1kg
- Display free to air programs for digital terrestrial, and satellite
- Display High Definition TV programs (free to air)
- Full measurements DVB-T/H, DVB-S et DVB-S2
- Full measurements for MPEG-2 and MPEG-4
- Ultra fast spectrum analysis
- Checksat mode with NIT (satellite recognition)
- Real time echoes measurement with zoom
- Very high sensitivity in terrestrial band
- Memorise and export/import data with USB memory stick
- Battery with 1 hour charging time and 4 hours autonomy
- Rugged carrying case
- Water proof front panel with sensitive button
- Optional PC software to create reports

All digital measurements

The SEFRAM 7861HD provides all necessary measurements for DVB-T/H, DVB-S and DVB-S2. The panoramic TFT display will show all parameters and measurements for the selected channel.

Specific features to save time

Time is money! With the ultra fast spectrum analysis, Check sat mode, autoset, real time echoes, the SEFRAM 7861HD will save your precious time during antenna setup.

Easy to use

Direct access to functions makes the SEFRAM 7861HD very easy to use. Getting started with the TV meter is like a game!

2 YEARS
warranty

NEW
2010

MPEG4-H264

MPEG2



SEFRAM 7861HD

Optimized design for your safety

With only 2,1kg, the SEFRAM 7861HD will be the ideal companion for all your measurements on the field. Its compact size will provide better safety and makes your work easier.

Panoramic Display

With its panoramic 7 inch LCD screen (16:9), the reading of measurements will be easier than any other product available on the market

HD TV display

The new SEFRAM 7861HD displays **high definition TV programs** (MPEG4-H264 free to air) with the decoding of all digital sounds.

Selection guide

	7861	7861HD	7862	7862HD	7863HD	7865HD	7866HD
Frequency Band	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 5-865MHz	Terrestrial 5-865MHz Satellite 950-2150MHz	Terrestrial 5-865MHz Satellite 950-2150MHz
DVB-T/H	✓	✓	✓	✓		✓	✓
DVB-S, DVB-S2	✓	✓	✓	✓		✓	✓
DVB-C			✓ (45-865MHz)	✓ (45-865MHz)	✓	✓	✓
TV MPEG2 display	✓	✓	✓	✓	✓	✓	✓
TV MPEG4 - H264 display (HD TV)		✓		✓	✓	✓	✓
Fast spectrum analysis	✓	✓	✓	✓	✓	✓	✓
Check sat mode	✓	✓	✓	✓		✓	✓
Constellation diagram with zoom			✓	✓	✓	✓	✓
Graphical display of measurements						✓	✓
Wifi measurements *	✓*	✓*	✓*	✓*		✓*	✓*
GPS							✓
TS-ASI Output						✓	✓

* with optional adapter.





SEFRAM 7861HD

Panoramic TV Meter

Technical Specifications **Terrestrial Band** **Satellite Band**

Frequency		
Range	45-865 MHz	950-2150 MHz
Resolution	measure 25 kHz, display 1kHz	measure 25 kHz, display 1 kHz
Level measurements		
Dynamic range	20-120 dB μ V	30-110 dB μ V
Noise floor level	5dB μ V typical	
Units	dB μ V, dBmV, dBm, V	dB μ V, dBmV, dBm, V
Accuracy	\pm 2dB +/- 0.05dB/ $^{\circ}$ C	\pm 3dB +/- 0.05dB/ $^{\circ}$ C
Resolution	0,1dB	0,1dB
Filters	automatic with selected standard 100 - 300 kHz	
Input	F or BNC 75 Ohms	F or BNC 75 Ohms
Max permissible voltage	80 V DC, 80 V rms/50Hz	80 V DC, 80 V rms/50Hz
Standards	B, G, D, K, I, L, M, N, FM, carrier, QAM, C-OFDM	PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS
Measurements	V, C/N, V/A1, V/A2 according to selected standard	RF, C/N
Fast spectrum analysis		
Ultra fast mode	100 ms typ. (10 times/s)	100 ms typ. (10 times/s)
Filters	automatic with selected span (100, 300, 1000 kHz)	1MHz
Attenuator	automatic with selected frequency (0 to 60 dB with 5 dB steps)	automatic (0 to 60 dB with 5 dB steps)
Dynamic (display)	60 dB (10 dB/div), 30 dB (5dB/div)	60 dB (10 dB/div), 30 dB (5dB/div)
Span	10 MHz to full span in 1, 2, 5 steps	10 MHz to full span in 1, 2, 5 steps
Measurement map		
Capacity		scrolling 12 programs
Display		graphical or text
Check sat mode		
	-	fast search of satellite, simple or double LNC
	-	30 satellites typical, with European database loaded
	-	4 transponders per satellite, can be modified by user
Memory		
Sauvegarde Saving	internal, non volatile memory, USB stick (not supplied with)	
Data	places, measure (level, BER/MER, frequency map, Spectre,...)	
Capacity	320 ko (1000 files max or folders)	
Auxiliary inputs and outputs		
Interfaces	2 x USB (A and mini B), Ethernet 10baseT	
Power supply input	jack 3,5 mm, 15 V max, 6 A max	
Audio / Video	Input/Output audio and video	
Remote supply and control		
Voltage	5/13/18 V, 500 mA max	13/18 V, 500 mA max
DiSEqC	-	DiSEqC 1.2
22 kHz	-	22 kHz, MiniDiSEqC, ToneBurst
Digital measurements	DVB-T/H	DVB-S DVB-S2
Bit Error Rate (BER)	CBER (before Viterbi) VBBER (after viterbi) UNC (lost packets)	CBER, VBBER, UNC LDPC, BCH, PER
Modulation Error Rate (MER)	5-35dB	0-20dB
Symbol rate	-	DVB-S-1:45Ms/s DVB-S2: 1-36Ms/s 8PSK: 1-31Ms/s
Bandwidth	5MHz, 6MHz, 7 MHz, 8 MHz	-
Viterbi rate	-	1/2, 2/3, 3/4, 5/6, 7/8, 8/9, 9/10 (auto)
Guard interval	Automatic and manual	-
Inverted spectrum	Manual	-
Standard	EN 300-744	EN 300-421 EN302 307
	NICAM	
Frequency	45-865MHz	-
Standard	B, G, D, K, I, L	-
Level measurements	yes	-
Echoes / Impulse response		
Dynamic range	30 dB, 67km (8k)	-
Units	μ s, km, miles	-
TV picture and sounds		
Analogue programs	yes	-
Digital programs (free to air)	SD (standard definition) and HD (high definition)	SD (standard definition) and HD (high definition)
Sounds	analogue, MPEG-1, MPEG-2, AAC, HE AAC, Dolby® Digital, Dolby® Digital Plus	

General Specifications

Display	LCD TFT Couloured 7 inch 16/9, backlighted, 800x480 dot (W-VGA)
Power supply	main adaptor 110/230 VAC, jack 3,5mm, 15 V 6 A
Battery	LiOn battery 70W
Autonomy	4 hours typical
Built-in charger	1 hour charging time for 80% capacity
Operating temperature	0 $^{\circ}$ C to 40 $^{\circ}$ C
Storage temperature	-10 $^{\circ}$ C to 60 $^{\circ}$ C
EMC and safety	NF-EN 61362-1 / NF-EN 61326-3 / NF-EN 61010-1
Dimensions	205 x 90 x 290 mm
Weight	2,1 kg (including battery and pouch)

Supplied with : main adaptor (90-245V with European plug), user's manual, F/F or F/BNC adaptor

Optional accessories : Wifi adaptor : **P/N 978651000**
 Pouch for accessories : **P/N 978656500**
 Kit TR7836 : **kit with TR7836 software (CD-ROM) and USB cable**
 Car cigarette lighter power supply : **P/N 978361000**
 BNC/TV adaptor : **P/N 213200010**

TR7836 software is common for all SEFRAM TV Meters

*Dolby is a trade mark of Dolby Laboratories

FT7861HD A00 - Specifications can be updated without notice



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