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SEFRAM 7861HDT2

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 MPEG4-H264
- Full measurements DVB-T2, DVB-T/H, DVB-S and DVB-S2
- Full measurements for MPEG-2 and MPEG-4
- Ultra fast spectrum analysis
- Satcheck mode with NIT (satellite recognition)
- Real time echoes and pre-echoes measurement with zoom
- Constellation diagram with zoom
- 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



SEFRAM 7861HDT2

All digital measurements

The SEFRAM 7861HDT2 provides all necessary measurements for DVB-T2, 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, NIT, Check sat mode, autosect, real time echoes, constellation diagram, impulse response, MER versus carrier (DVB-T and T2), the SEFRAM 7861HDT2 will save your precious time during antenna setup.

Easy to use

Direct access to functions makes the SEFRAM 7861HDT2 intuitive and very easy to use. Getting started with the TV meter is like a game!.

Optimized design for your safety

With only 2,1kg, the SEFRAM 7861HDT2 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 with all digital sounds decoding

The new SEFRAM 7861HDT2 displays high definition TV programs (MPEG4-H264) with the **decoding of all digital sounds in standard**, including Dolby, Dolby Digital, AAC and HE-AAC.

	7861	7861HDT2	7862HDT2	7865HDT2	7866HDT2
Frequency Band	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 5-865MHz Satellite 950-2150MHz	Terrestrial 5-865MHz Satellite 950-2150MHz
DVB-T/H	✓	✓	✓	✓	✓
DVB-S, DVB-S2	✓	✓	✓	✓	✓
DVB-C			✓ (45-865MHz)	✓	✓
TV MPEG2 display	✓	✓	✓	✓	✓
TV MPEG4 - H264 display (HD TV)		✓	✓	✓	✓
Fast spectrum analysis	✓	✓	✓	✓	✓
Check sat mode with NIT	✓	✓	✓	✓	✓
Constellation diagram with zoom			✓	✓	✓
Graphical display of measurements				✓	✓
OSD, Audio & video PID				✓	✓
Wifi measurements *	✓*	✓*	✓*	✓*	✓*
TS-ASI Input/Output				✓	✓
GPS					✓

* with optional adapter





SEFRAM 7861HDT2

Panoramic TV Meter

Specifications	Terrestrial band	Satellite band
Frequency	45-865 MHz	950-2150 MHz
Range	measure 25 kHz, display 1 kHz	measure 25 kHz, display 1 kHz
Resolution		
Level measurements		
Dynamic range	20-120 dBµV	30-110 dBµV
Noise floor level	5dBµV typical	
Units	dBµV, dBmV, dBm, V	dBµV, dBmV, dBm, V
Accuracy	±2dB +/- 0.05dB/°C	±2dB +/- 0.05dB/°C
Resolution	0.1dB	0.1dB
Filters	automatic with selected standard 100 - 300 kHz	1MHz
Standards	B, G, D, K, I, L, M, N, FM, carrier, DVB-C, DVB-T/H, DVB-T2	PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS
Measurements	V, C/N, Noise margin, V/A1, V/A2 according to selected standard	RF, C/N, link margin
Digital measurements		
Bit Error Rate (BER)	DVB-T/H CBER (before Viterbi) VBER (after viterbi) UNC (lost packets)	DVB-T2 LDPC, BCH, FER (frame error)
		DVB-S CBER, VBER, UNC
		DVB-S2 LDPC, BCH, PER
Modulation Error Rate (MER)	5 - 35dB	0-20dB
Symbol rate	-	1 to 45Ms/s
Bandwidth	6MHz, 7 MHz, 8 MHz	
Mode		
FFT size	2k and 8k, auto and manual	
Constellation	QPSK, 16 and 64QAM, auto	QPSK and 8PSK
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (auto)	QPSK DVB-S: 1/2, 2/3, 3/4, 5/6, 6/7, 7/8 (auto) QPSK DVB-S2: 2/5, 1/2, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (auto) 8PSK DVB-S2: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (auto)
Guard interval	Automatic and manual	
Inverted spectrum	Manual	
Standard	ETS 301-701	ETS 302-755
		ETS 300-421 ETS 302-307
Pre-echoes / Echoes / Impulse response		
Dynamic range	30 dB, 75km (in 8k)	50 dB, -75km +75km (in 8k)
Units	µs, km, miles	µs, km, miles
	NICAM	
Frequency	45-865MHz / Level measurement	
Standard	B, G, D, K, I, L	
Fast spectrum analysis		
Ultra fast mode	100 ms typ. (10 times/s)	350 ms typ. (10 times/s)
Filters (automatic with selected span)	100kHz, 300kHz, 1 MHz	1MHz, 3MHz, 10MHz
Attenuator	automatic with selected frequency (0 to 50 dB with 10 dB steps)	automatic (0 to 50 dB with 10 dB steps)
Dynamic (display)	60 dB (10 dB/div)	60 dB (10 dB/div)
Span	5 MHz to full span in 1, 2, 5 steps	5 MHz to full span in 1, 2, 5 steps
Measurement map		
Capacity		scrolling 11 programs
Display		graphical (bargraph)
Check sat mode		
		fast search of satellite, single or double LNC, with NIT 30 satellites typical, with European database loaded 4 transponders per satellite, can be modified by user
Memory		
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)	
TV picture and sounds		
Analogue programs	yes (PAL, SECAM, NTSC)	
Digital programs		SD (standard definition MPEG2) and HD (high definition MPEG4 / H,264)
Sounds		analogue, MPEG-1, MPEG-2, AAC, HE AAC, Dolby® Digital, Dolby® Digital Plus
RF input		
Input	75 Ohm, F and BNC with adaptor supplied	
Max permissive voltage	80 V DC, 80 V rms/50Hz	
Auxiliary inputs and outputs		
Interfaces	2 x USB (A and mini B), 10baseT Ethernet (RJ45)	
Power supply input	jack 5,5 mm, 15 V max, 5 A max	
Audio / Video	Input/Output audio (0dBm) and video (1Vrms)	
Remote supply and control		
Voltage	5V/13V/18 V/24V, 500 mA max (300mA for 24V)	13/18 V, 500 mA max
DiSEqC		DiSEqC 1,2, dish rotor control, committed & uncommitted switches
Mini DiSEqC		22 kHz, ToneBurst
SatCR		DiSEqC protocol extension, control of 8 slots max.
General Specifications		
Display	LCD TFT Couloured 7 inch (178mm) 16/9, backlighted, 800x480 dots (W-VGA)	
Power supply	main adaptor 110/230 VAC, jack 5,5mm, 15 V 5 A	
Battery (non removable)	LiIon battery 70W	
Autonomy	3 hours typical	
Built-in charger	1 hour charging time for 80% capacity	
Operating temperature	-5°C to 45°C	
Storage temperature	-10°C to 60°C	
EMC and safety	EN 55022-A2 / EN 61326-1 / EN 61010-1	
Dimensions	210 x 90 x 297 mm	
Weight	2,1 kg (including battery and pouch)	

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

Optional accessories :
 Wifi adaptor: P/N 978651000
 Pouch for accessories: P/N 978656500
 KitTR7836: kit with TR7836 software (CD-ROM) and USB cable
 Car cigarette lighter power supply: P/N 978361000

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FT7861HDT2A00- Specifications can be updated without notice



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