

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, cable and satellite
- Display High Definition TV programs MPEG4-H264
- Full measurements DVB-T2, DVB-T/H, DVB-C, 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



All digital measurements

The SEFRAM 7862HDT2 provides all necessary measurements for DVB-T2, DVB-T/H, DVB-C, 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, autoset, real time echoes, constellation diagram, impulse response, MER versus carrier (DVB-T and T2) the SEFRAM 7862HDT2 will save your precious time during antenna setup.

Easy to use

Direct access to functions makes the SEFRAM 7862HDT2 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 7862HDT2 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 7862HD displays high definition TV programs (MPEG4-H264) with the **decoding of all digital sounds in standard**, including Dolby, Dolby Digital, AAC and HE-AAC.

	7861HDT2	7862HDT2	7865HDT2	7866HDT2
Frequency Band	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			✓	✓
TS-ASI Input/Output			✓	✓
GPS				✓

* with optional adapter



SEFRAM 7862HDT2

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	
Level measurements		20-120 dBµV		30-110 dBµV	
Dynamic range		5dBµV typical			
Noise floor level		dBµV, dBmV, dBm, V		dBµV, dBmV, dBm, V	
Units		±2dB +/- 0.05dB/°C		±2dB +/- 0.05dB/°C	
Accuracy		0.1dB		0.1dB	
Resolution		automatic with selected standard 100 - 300 kHz		1MHz	
Filters		B, C, D, K, I, L, M, N, FM, carrier, DVB-C, DVB-T/H, DVB-T2		PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS	
Standards		V, C/N, Noise margin, V/A1, V/A2 according to selected standard		RF, C/N, link margin	
Digital measurements		DVB-T/H		DVB-S	
Bit Error Rate (BER)		DVB-T2		DVB-S2	
		CBER (before Viterbi) VBER (after viterbi) UNC (lost packets)	LDPC, BCH, FER (frame error)	CBER, VBER, UNC	LDPC, BCH, PER
Modulation Error Rate (MER)		5 - 35dB	5 - 35dB	20 - 40dB	0-20dB
Symbol rate		-	-	1 to 7.224 Ms/s	1 to 45Ms/s
Bandwidth		6MHz, 7 MHz, 8 MHz	5MHz, 6MHz, 7 MHz, 8 MHz	-	-
Mode		-	SISO, MISO, single and multi PLP	-	-
FFT size		2k and 8k, auto and manual	1k, 2k, 4k, 8k, 16k and 32k + bandwidth extension, auto	-	-
Constellation		QPSK, 16 and 64QAM, auto	QPSK, 16, 64 and 256QAM auto	16, 32, 64, 128 and 256QAM	QPSK and 8PSK
Code rate		1/2, 2/3, 3/4, 5/6, 7/8 (auto)	1/2, 3/5, 2/3, 3/4, 4/5, 5/6 (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	Automatic	-	-
Inverted spectrum		Manual	Automatic	-	-
Standard		ETS 301-701	ETS 302-755	ITU J83-Appendix A and B	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		(free to air) 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			
Digital programs (*)		yes		yes	
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 70Wh			
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 : 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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(*) : the display of digital encrypted programs is possible, if user has a valid subscription card and if the encryption type is supported by the TV Meter. Please check with our sales department when ordering.

FT7862HDT2A01- Specifications can be updated without notice



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For assistance and ordering

