

Sefram
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SEFRAM 7865HD

State-of-Art Specifications for High Definition TV

Capabilities

- Panoramic 7 inch LCD coloured screen
- Weight: 2,1kg
- Display TV programs for digital terrestrial, cable and satellite
- Display High Definition TV programs
- Full measurements DVB-T/H, DVB-C, DVB-S et DVB-S2
- Full measurements for MPEG-2 and MPEG-4
- Ultra fast spectrum analysis and expert spectrum analysis
- Satcheck mode with NIT (satellite recognition)
- Real time echoes measurement with zoom
- Constellation diagram with zoom
- OSD TV, PID audio and video, impulse response
- ASI TS output
- Graphical display of measurements
- Very high sensitivity in terrestrial band
- Memorize, export and 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 7865HD provides all necessary measurements for 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, autotest, real time echoes, constellation diagram with zoom, impulse response, complete OSD the SEFRAM 7865HD will save your precious time during antenna setup.

Easy to use

Direct access to functions makes the SEFRAM 7865HD very easy to use. Getting started with the TV meter is like a game!



SEFRAM 7865HD

Optimized design for your safety

With only 2,1kg, the SEFRAM 7865HD 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 7865HD 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			x (45-865MHz)	x (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.



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

Frequency	Terrestrial Band		Satellite Band	
Range	5-865 MHz		950-2150 MHz	
Resolution	measure 25 kHz, display 1 kHz		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 permissive 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)	
Expert mode	yes, with all measurements information in the spectrum		yes, with all measurements information in the spec	
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 range	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 (bargraph)	
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				
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			
ASI TS output	yes, BNC on the upper panel			
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				
Bit Error Rate (BER)	DVB-T/H CBER (before Viterbi) VBER (after viterbi) UNC (lost packets)	DVB-C BER (before Reed Solomon) UNC (lost packets)	DVB-S CBER, VBER, UNC	DVB-S2 LDPC, BCH, PER
Modulation Error Rate (MER)	5-35dB	20 to 40dB	0-20dB	
Symbol rate	-	5 to 7 Ms/s	DVB-S-1-45Ms/s DVB-S2: 1-36Ms/s 8PSK: 1-31Ms/s	
Bandwidth	5MHz, 6MHz, 7 MHz, 8 MHz	-	-	
Constellation	automatic	16, 32, 64, 128, 256 - zoom	QPSK and 8PSK	
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	ITU J83-Appendix A and B	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 (en 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		-	
Digital programs (*)	yes		yes	

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 70Wh
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
 (*): 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.

FT7865HD A00 - Specifications can be updated without notice



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For assistance and ordering



*Dolby is a trade mark of Dolby Laboratories