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# SEFRAM 7863HD

## 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 cable TV
- Display free to air **High Definition TV programs**
- Full measurements DVB-C (J83-A and J83-B)
- Full measurements for MPEG-2 and MPEG-4
- Ultra fast spectrum analysis and expert spectrum analysis
- Constellation diagram with zoom
- OSD TV, PID audio and video
- Graphical display of measurements
- 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

### Dedicated to cable

The SEFRAM 7863HD provides all necessary measurements for the digital cable DVB-C (J83-A and J83-B). 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, the expert spectrum, autoset, constellation diagram with zoom, complete OSD the SEFRAM 7863HD will save your precious time during installation setup.

### Easy to use

Direct access to functions makes the SEFRAM 7863HD very easy to use. Getting started with the TV meter is like a game!



**SEFRAM 7863HD**

### Optimized design for your safety

With only 2,1kg, the SEFRAM 7863HD 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 7863HD displays **high definition TV programs** free to air (MPEG4-H264) 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 accessory.



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INSTRUMENTS & SYSTEMES

**Technical Specifications**
**Terrestrial / Cable Band**

<b>Frequency</b>	
Range	5-865 MHz
Resolution	measure 25 kHz, display 1 kHz
<b>Level measurements</b>	
Dynamic range	20-120 dB $\mu$ V
Noise floor level	5dB $\mu$ V typical
Units	dB $\mu$ V, dBmV, dBm, V
Accuracy	$\pm$ 2dB $\pm$ 0.05dB/ $^{\circ}$ C
Resolution	0,1dB
Filters	automatic with selected standard 100 - 300 kHz
Input	F or BNC 75 Ohms
Max permissible voltage	80 V DC, 80 V rms/50Hz
Standards	B, G, D, K, I, L, M, N, FM, carrier, QAM, C-OFDM
Measurements	V, C/N, V/A1, V/A2 according to selected standard
<b>Fast spectrum analysis</b>	
Ultra fast mode	100 ms typ. (10 times/s)
Expert mode	yes, with all measurements information in the spectrum
Filters	automatic with selected span (100, 300, 1000 kHz)
Attenuator	automatic with selected frequency (0 to 60 dB with 5 dB steps)
Dynamic (display)	60 dB (10 dB/div), 30 dB (5dB/div)
Span	10 MHz to full span in 1, 2, 5 steps
<b>Measurement map</b>	
Capacity	scrolling 12 programs
Display	graphical (bargraph)
<b>Memory</b>	
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)
<b>Auxiliary inputs and outputs</b>	
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
<b>Remote supply and control</b>	
Voltage	5/13/18 V, 500 mA max
Digital measurements	DVB-C
Bit Error Rate (BER)	BER (before Reed Solomon) UNC (lost packets)
Modulation Error Rate (MER)	20 to 40dB
Symbol rate	5 to 7 Ms/s
Constellation	16, 32, 64, 128, 256 - zoom
Standard	ITU J83-Appendix A and B
	<b>NICAM</b>
Frequency	45-865MHz
Standard	B, G, D, K, I, L
Level measurements	yes
<b>TV picture and sounds</b>	
Analogue programs	yes
Digital programs (free to air)	SD (standard definition) and HD (high definition)
Sounds	analogue, MPEG-1, MPEG-2, AAC, HE AAC, Dolby $\circledR$ Digital, Dolby $\circledR$ Digital Plus
<b>General Specifications</b>	
Display	LCD TFT Coloured 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

FT7863HD A00 - Specifications can be updated without notice



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**For assistance and ordering**
