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# SEFRAM 7862

**Sefram**  
Sefram

## State-of-art specifications with unique design

### Capabilities

- Panoramic 7 inch LCD coloured screen
- Weight: 2,1kg only
- Display free to air programs for digital terrestrial and satellite
- Full measurements DVB-T, DVB-S and DVB-S2, DVB-C (QAM)
- Ultra fast spectrum analysis
- Convenient checksat mode
- Battery with 1 hour charging time
- Rugged carrying bag
- Water proof front panel with sensitive buttons
- Wi-fi networks measurements\*
- Simplified procedure to update internal software:  
USB memory stick

### All digital measurements

The SEFRAM 7862 provides all necessary measurements for DVB-T (COFDM), DVB-S and DVB-S2 (QPSK/8PSK), DVB-C (QAM). The panoramic display will show all parameters for the selected channel

### Specific features to save time

With its ultra fast spectrum, NIT, Cell-ID, impulse response, check-sat mode and autose, the SEFRAM 7862 will save your precious time during antennas setup.

### Easy to use

Direct access to functions makes the SEFRAM 7862 very easy to use. Getting started with this TV Meter will be like a game!



SEFRAM 7862

### Optimized design for your safety

With only 2,1kg, the SEFRAM 7862 will be your 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.

### PC software: common for all SEFRAM TV meters

All SEFRAM TV Meters use the same PC software: TR7836 KITR7836 (P/N 978551000) includes the USB cable and the software CD-ROM. To get the best from your instrument, we recommend to order this kit with your TV Meter.

### Selection guide

	SEFRAM 7861	SEFRAM 7862	SEFRAM 7863	SEFRAM 7865	SEFRAM 7856
Frequency range	Terrestrial 45-865MHz Satellite 950-2150MHz	Terrestrial 45-865MHz Satellite 950-2150MHz	Cable/Terrestrial 5-865MHz	Terrestrial 5-865MHz Satellite 950-2150MHz	Terrestrial 5-865MHz Satellite 950-2150MHz
DVB-T / COFDM	✓	✓		✓	✓
DVB-S, DVB-S2 / 8PSK-QPSK	✓	✓		✓	✓
DVB-C / QAM		✓, (45-865 MHz)	✓	✓	✓
DVB-C / QAM with return path			✓		
TV pictures MPEG-2	✓	✓	✓	✓	✓
Fast spectrum analysis	✓	✓	✓	✓	✓
Check sat mode	✓	✓		✓	✓
Constellation pattern, audio/video PID				✓	✓
Graphical display of measurements				✓	✓
DiSEqC 1.2	✓	✓		✓, full	✓, full
GPS and ASI output					✓
Wi-fi measurements	✓*	✓*		✓*	✓*

**metrix**  
electronics

### Metrix Electronics Limited

Precision Enterprise House, Rankine Road, Daneshill, BASINGSTOKE, RG24 8PP, U.K.

Tel: +44 (0)1256 864150, Fax: +44 (0)1256 864154

E-mail: [sales@metrix-electronics.com](mailto:sales@metrix-electronics.com), Web: [www.metrix-electronics.com](http://www.metrix-electronics.com)

Technical Specifications	Terrestrial Band		Satellite Band	
<b>Frequency</b>	45-865 MHz		950-2150 MHz	
Range	measure 25 kHz, display 1 kHz		measure 25 kHz, display 1 kHz	
Resolution				
<b>Level measurements</b>	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		±3dB ±0.05dB/°C	
Accuracy	0,1dB		0,1dB	
Resolution	automatic with selected standard 100 - 300 kHz			
Filters	BNC 75 Ohm		BNC 75 Ohm	
Input	80 V DC, 80 Vrms/50Hz		80 V DC, 80 Vrms/50Hz	
Max. permissible voltage	B, G, D, K, I, L, M, N, FM, carrier, C-OFDM, QAM		PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS	
Standards	V, C/N, V/A1, V/A2 according to selected standard		RF, C/N	
Measurements				
<b>Ultra fast spectrum analysis</b>	100 ms typ. (10 times/s)		100 ms typ. (10 times/s)	
Sweep time	automatic with selected span (100, 300, 1000 kHz)		1MHz	
Filters	automatic with selected frequency(0 to 60 dB, 5 dB steps)		automatic (0 to 60 dB, 5 dB steps)	
Attenuator	60 dB (10 dB/div), 30 dB (5dB/div)		60 dB (10 dB/div), 30 dB (5dB/div)	
Dynamic	10 MHz to full span with 1, 2, 5 steps		10 MHz to full span with 1, 2, 5 steps	
Span				
<b>Measurement map</b>	scrolling of 12 programs			
Capacity	graphical or text			
Display				
<b>Checksat mode</b>	-		fast search of satellite, simple or double LNC	
	-		30 satellites typical, with European database loaded	
	-		4 transponders per satellite, can be modified by user	
<b>Memory</b>	internal, non volatile memory			
Saving	places, measure (level, BER/MER, Frequency map, Spectrum,...)			
Data	512 Ko (max 1000 files or folders)			
Capacity				
<b>Auxiliary Inputs and Outputs</b>	mini USB connector			
USB interface	jack 5,5 mm, 15 Vmax. 5A max			
Power supply				
<b>Remote supply and control</b>	5/13/18 V, 500 mA max		13/18 V, 500 mA max	
Voltage	-		DiSEqC 1.2	
DiSEqC	-		22 kHz, MiniDiSEqC, ToneBurst	
22 kHz				
<b>Digital measurements</b>	<b>C-OFDM</b>	<b>QAM</b>	<b>DVB-S</b>	<b>DVB-S2</b>
Bit Error Ratio	CBER (before Viterbi) VBBER (after viterbi) UNC (lost packets)	BER (before Reed Solomon) UNC (lost packets)	CBER, VBBER, UNC	LDPC, BCH, PER
Modulation Error Ratio (MER)	5-35dB	20 to 40dB	0-20dB	
Symbol rate	-	5 to 7 Ms/s	1-45Ms/s	
Bandwidth	6MHz, 7 MHz, 8 MHz		-	
Constellation	automatic	automatic	QPSK and 8PSK	
Viterbi rate			1/2, 2/3, 3/4, 5/6, 7/8, 8/9, 9/10 (auto)	
Standards	EN 300-744	ITU J83-Appendix A and B	EN 300-421	EN302 307
<b>NICAM</b>				
Frequency	45-865MHz		-	
Standard	B, G, D, K, I, L		-	
Error measurement	BER (parity)		-	
Symbol rate	728 kbits/s		-	
Standards	EN 300-163		-	
<b>Impulse response</b>				
Dynamic	20 dB		-	
Units	µs, km, miles		-	
<b>TV picture display</b>				
Analogue programs	yes		-	
Digital programs (free to air)	yes, C-OFDM		yes	
Digital programs (*)	-		yes	
<b>General specifications</b>	LCD TFT Coloured 7 inch 16/9, backlighted, 800x480 dots ( wide VGA)			
Display	2x USB (A and mini B) and ethernet			
Interface	main adaptor 110/230 VAC, jack 3,5mm, 15 V 6 A			
Power supply	LiOn battery 70W			
Battery	3 hours typical			
Autonomy	1 hour for 80% capacity			
Built-in charger	0°C to 40°C			
Operating temperature	-10°C to 60°C			
Storage temperature	NF-EN 61362-1 / NF-EN 61326-3 / NF-EN 61010-1			
EMC and Safety	205 x 90 x 290 mm			
Dimensions	2,1 kg (including battery and pouch)			
Weight				
(*) the display of digital programs (encrypted) is possible if user has a valid user card and if the encryption type supported by the TV Meter - Please check with our sales department when ordering				
<b>Supplied with :</b> main adaptor (90-245V), a rugged carrying pouch, F/BNC adaptor, a user manual				
<b>Optional accessories :</b>	Pouch for accessories: P/N 978656500			
	Wi-fi adaptor: P/N 978651000			
	Kit TR7836: USB cable + TR7836 software (CD-ROM) for Windows ®			
	Car cigarette lighter power supply (P/N 978361000)			
	F/BNC adaptor: P/N 213200002 - BNC / TV adaptor: P/N 213200010			
	TR7836 software is common for all SEFRAM TV Meters			

SEFRAM TV Meters are designed and manufactured in our plant of Saint-Etienne (France)

Specifications subject to change without notice- - FT7862 A00

**For assistance and ordering**