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Sefram
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SEFRAM 7863

State-of-art specifications with unique design

Capabilities

- Panoramic 7 inch LCD coloured screen
- Weight: 2,1kg only
- Display free to air programs for cable TV
- Full measurements DVB-C including return path
- Constellation pattern
- Ultra fast spectrum analysis
- Autoset mode
- Battery with 1 hour charging time
- Rugged carrying bag
- Water proof front panel with sensitive button

All digital measurements

The SEFRAM 7863 provides all necessary measurements for DVB-C (QAM) J83-A and J83-B standards. The panoramic display will show all parameters for the selected channel

Easy to use

Direct access to functions makes the SEFRAM 7863 very easy to use. Getting started with this TV Meter will be like a game!

Optimized design for your safety

With only 2,1kg, the SEFRAM 7863 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.



SEFRAM 7863

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

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Technical Specifications		Terrestrial and cable Band	
Frequency			
Range	5-865 MHz		
Resolution	measure 25 kHz, display 1 kHz		
Level measurements			
Dynamic range	20-120 dB μ V		
Noise floor level	5dB μ V typical		
Units	dB μ V, dBmV, dBm, V		
Accuracy	± 2 dB ± 0.05 dB/ $^{\circ}$ C		
Resolution	0,1dB		
Filters	automatic with selected standard 100 - 300 kHz		
Input	BNC 75 Ohm		
Max. permissible voltage	80 V DC, 80 Vrms/50Hz		
Standards	B, G, D, K, I, L, M, N, FM, carrier, QAM		
Measurements	V, C/N, V/A1, V/A2 according to selected standard		
Ultra fast spectrum analysis			
Sweep time	100 ms typ. (10 times/s)		
Filters	automatic with selected span (100, 300, 1000 kHz)		
Attenuator	automatic with selected frequency(0 to 60 dB, 5 dB steps)		
Dynamic	60 dB (10 dB/div), 30 dB (5dB/div)		
Span	10 MHz to full span with 1, 2, 5 steps		
Measurement map			
Capacity	scrolling of 12 programs		
Display	graphical or text		
Memory			
Saving	internal, non volatile memory		
Data	places, measure (level, BER/MER, Frequency map, Spectrum,...)		
Capacity	512 Ko (max 1000 files or folders)		
Auxiliary Inputs and Outputs			
USB interface	mini USB connector		
Power supply	jack 5,5 mm, 15 Vmax. 5A max		
Remote supply and control			
Voltage	5/13/18 V, 500 mA max		
Digital measurements			
QAM			
Bit Error Ratio	BER (before Reed Solomon) UNC (lost packets)		
Modulation Error Ratio (MER)	20 to 40dB		
Symbol rate	5 to 7 Ms/s		
Constellation	automatic		
Standards	ITU J83-Appendix A and B		
NICAM			
Frequency	45-865MHz		
Standard	B, G, D, K, I, L		
Error measurement	BER (parity)		
Symbol rate	728 kbits/s		
Standards	EN 300-163		
TV picture display			
Analogue programs	yes		
Digital programs (free to air)	yes, QAM		
General specifications			
Display	LCD TFT Coloured 7 inch 16/9, backlighted, 800x480 dots (wide VGA)		
Interface	2x USB (A and mini B) and ethernet		
Power supply	main adaptor 110/230 VAC, jack 5,5mm, 15 V 4,5A		
Battery	LiOn battery 70W		
Autonomy	3 hours typical		
Built-in charger	1 hour for 80% capacity		
Operating emperature	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), a rugged carrying pouch, a pouch for accessories, F/BNC adaptor, a user manual

Optional accessories : Pouch for accessories: P/N 978656500
 KitTR7836: USB cable + TR7836 software (CD-ROM) for Windows®
 Car cigarette lighter power supply (P/N 978361000)
 F/BNC adaptor: P/N 213200011
 BNC / TV adaptor: P/N 213200010
 TR7836 software is comun 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 - - FT7863 A00

For assistance and ordering