Sefram

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 and audio/video PID
- Ultra fast spectrum analysis
- Autoset mode
- Battery with 1 hour charging time
- Rugged carrying bag
- Water proof front panel with sensitive button

SEFRAM 7863

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.
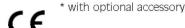
Panoramic display

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 KITTR7836 (P/N 978551000) includes the USB cable and the software CD-ROM. To get the best from your instrument, we recommand 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	✔*	✔*		✔*	✔*

* with optional accessory

Sefram
INSTRUMENTS & SYSTEMES

Technical Specifications — Terrestrial and cable Band

Frequency

Range	5-865 MHz
Resolution	measure 25 kHz, display 1 kHz

Level measurements

Dynamic range	20-120 dBµV
Noise floor level	5dBµV typical
Units	dBµV, dBmV, dBm, V
Accuracy	±2dB ±0.05dB/°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
Video input	yes, with RCA connector
Audio/video output	yes, with RCA connector

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
Audio and video PID	yes
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°C to 40°C
Storage temperature	-10°C to 60°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 commun for all SEFRAM TV Meters