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SEFRAM 7806

The ideal companion for Digital Terrestrial TV Display SD* and HD* TV programs

Robust and easy to use

With only 5 keys on the front panel, you access directly to all measurements. We add a quick guide in the top cover to remind all functions and menus. The new rugged plastic housing is designed for extensive field use and protects sensitive parts of the instrument.

All DVB-T measurements

The 7806 provides all measurements in DVB-T (COFDM modulation). You will have :BER, MER and lost packets.

SEFRAM 7806: remote supply from 5V to 24V is included

When the remote supply is needed for external amplifiers the 7806 will offer the following voltages 5V, 13V, 18V and 24V.

LCD colour display with display of MPEG-2 and MPEG-4 TV programs

The 7806 offers a bright LCD TFT display for measurements results and for free-to-air TV programs (MPEG-2 and MPEG-4).

All necessary functions available to analyse signals

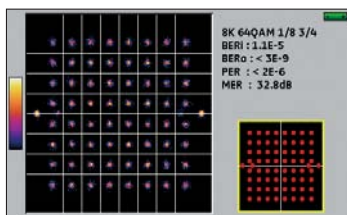
The 7806 includes a spectrum analyser, display the constellation diagram in COFDM and the echoes (guard interval).



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USB interface

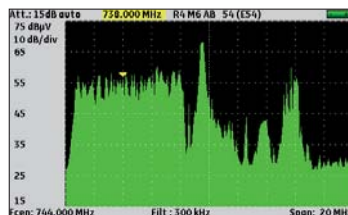
The 7806 includes two USB interfaces for updating and getting the benefit of free firmware updates. They can be used to transfer data to a computer to create reports when you measurements campaigns are done.



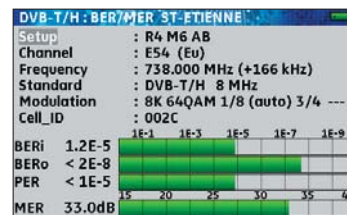
Constellation diagram

| # | name | place | frequency | configuration |
|----|----------|------------|-----------|---------------|
| 51 | R1 CH PU | ST-ETIENNE | E50 | --- |
| 52 | R2 L P B | ST-ETIENNE | E23 | --- |
| 53 | R3 CANAL | ST-ETIENNE | E39 | --- |
| 54 | R4 M6 AB | ST-ETIENNE | E54 | --- |
| 55 | TS HD | ST-ETIENNE | E29 | --- |
| 56 | R6 TP1 N | ST-ETIENNE | E26 | --- |
| 58 | TF 1 | ST-ETIENNE | E35 | --- |
| 59 | FR 2 | ST-ETIENNE | E30 | --- |
| 60 | FR 3 | ST-ETIENNE | E33 | --- |

Channels monitoring



Fast spectrum analysis



BER - MER in COFDM



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Specifications **SEFRAM 7806**

| | |
|---------------------------------|---|
| Frequency | |
| Range | 45-865 MHz |
| Resolution | 50kHz |
| Level measurement | |
| Dynamic range | 20-120 dB μ V |
| Units | dB μ V, dBmV, dBm, V |
| Accuracy | ± 2 dB \pm 0.05dB/ $^{\circ}$ C |
| Resolution | 0,1dB |
| Measurement filter | 300kHz |
| Standards | B, G, D, K, I, L, M, N, FM, DVB-T/H |
| Digital measurements | |
| Error rate measurement | CBER (before correction), VBER (after correction), UNC/PER (lost packets) |
| Modulation error rate (MER) | 0-35dB |
| Bandwidth | 5, 6, 7 or 8 MHz |
| Viterbi | 1/2, 2/3, 3/4, 5/6, 7/8 (auto) |
| Guard Interval | 1/32, 1/16, 1/8, 1/4 (auto) |
| Carriers | 2k / 8k (auto) |
| Standard | EN 301-701 |
| Spectrum analysis | |
| Sweep rate | 150 ms typical, 400 points |
| Filter | 1 MHz |
| Attenuator | automatic (0 to 60 dB, with 10 dB steps) |
| Dynamic (display) | 60 dB (10 dB/div) |
| Span | 0, 5, 10, 20, 50, 100, 200, 500MHz and full span |
| Measurement map | |
| Capacity | scrolling of 50 programs max. |
| Display | texte |
| Constellation diagram | |
| Display | graphical display, 16QAM/64QAM/QPSK |
| Memory | |
| Data | frequency maps, measures, spectrum, constellation diagrams, echoes |
| Capacity | 1000 files max. |
| Input / Output | |
| Interface | USB A and USB mini B |
| Power supply input | 15V / 1A with 5.5mm jack |
| Remote supply | |
| Voltage | 5/13/18/24V, 500 mA max (300mA max. for 24V) |
| RF input | |
| Connector | 75 Ohms (F type or BNC type with adaptors supplied) |
| Maximum input voltage | 80 V DC, 80 Vrms./50Hz |
| Audio and video decoding | |
| Audio | digital TV sound: AAC, HE-AAC, Dolby Digital, Dolby Digital Plus |
| Video | digital TV programs: MPEG2, MPEG4 576i, 720p, 1080i free to air |
| General Specifications | |
| Display | TFT coloured LCD, 4.3 inches (16:9), with backlight |
| Power supply | main adaptor 100-240V, 15V DC / 1A output |
| Battery (non removable) | Lithium Ion, 10.8V/2.25Ah (life time 200 charge/discharge) |
| Autonomy | 2 hours 15mn (typical) with HD TV picture and remote supply |
| Charging time | full charge of the battery in 2H15 (instrument switched-off) |
| Operating temperature | -5 $^{\circ}$ C to 45 $^{\circ}$ C |
| Storage temperature | -10 $^{\circ}$ C to 60 $^{\circ}$ C |
| EMC and safety | EN-61010-1, EN61326-A1 and A2, EN55022 (B) |
| Dimensions | 200 x 190 x 100 mm |
| Weight | 1,5kg |

Supplied: main charger/adaptor, user manual on CD-ROM, F/BNC and F/F adaptor, carrying belt.

Optional accessories : USB cable (A to mini B): P/N. 978551100
Car cigare lighter adaptor: P/N 978361000
F/F adaptor : P/N 213200015

Dolby Digital and Dolby Digital Plus are trade mark of Dolby Laboratories



FT 7806 A00- Specifications can be updated without notice



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