SEFRAM 7880

State-of-Art specifications for High Definition TV
The feeling of a new way of measurement

Capabilities

- Panoramic LCD touch screen: **10 inches (16:9)**
- Display free to air programs for digital terrestrial, cable and satellite
- Display High Definition TV programs MPEG4-H264 and **HEVC (H265)**
- Display analogue TV programs
- All measurements for **DVB-T/T2, DVB-C/C2 (J83-A and B), DVB-S, DVB-S2**
- Ultra fast spectrum analysis and expert spectrum analysis
- Checksat mode with NIT (satellite recognition)
- LTE function to help the diagnostic of filter
- Real time echoes and pre-echoes measurement with zoom
- Constellation diagram with zoom
- **Three in one display:** measurement, TV picture, mini spectrum
- Graphical display of measurements
- HDMI interface
- **Multistream** capability
- **Shoulder measurement**
- Memorize and export/import data with USB memory stick
- Battery with 1 hour charging time and 4 hours autonomy
- Supplied with **carrying bag and protection pouch**
- Weight: 2,8kg

NEW

2 YEAR WARRANTY

TV ANALYSER

HEVC H265

The most complete TV Meter of the market

Time is money! With its fast and expert spectrum analysis, the checksat mode with NIT, the Cell ID function, real time echoes and pre-echoes, the MER per carrier, the constellation diagram, the fast Autoset, Multistream capability, the LTE function to help the diagnostic of spurious filtering, no doubt that you can setup a TV receiving system in record time.

A new design optimized for your safety

To protect your TV meter, we have design a robust metal housing with a protective pouch. For your safety, we supplied an ingenious system of belts and clip and a light transportation bag for non dedicated situation.

Easy to use

Direct access to function from the touch screen is like a game: dedicated icons, special "home" function to go back to main menu, virtual keyboard to enter your specific data, possibility to export / import file on USB memory stick,… Getting started with the new SEFRAM 7880 is fast and easy.

Panoramic touch screen

With the largest and brightest LCD of the market, using the new TV meter is possible in all conditions of light, including in sunny environment. With the 10.1" touch screen, you will use your new TV meter like a smartphone or a tablet: no need to worry where and which button to push, everything is displayed on the large screen in a clear and easy way. Incredibly user friendly!

CE

Sefram

Technical specifications	Terrestrial band					Satellite band	
Frequency							
Range	5-1005 MHz					900-2200 MHz	
Resolution	measurement: 50 kHz, display: 1 kHz					measurement: 1MHz, display: 1MHz	
Level measurements							
Dynamic range	20-120 dBµV					20-120 dBµV	
Noise floor level	10 dBµV typical					20 dBµV typical	
Units	dBµV, dBmV, dBm					dBµV, dBmV, dBm	
Accuracy	±2dB +/- 0.05dB/°C					±2dB +/- 0.05dB/°C	
Resolution	0,1dB					0,1dB	
Measurement filters	25kHz					125kHz	
Standards	BG, DK, I, L, MN, FM, DAB/DAB+, Porteuse, DVB-T/T2/T2lite, DVB-C/C2, J83B					PAL, SECAM, NTSC, Porteuse, DVB-S/S2, DSS	
Measurements	RF, C/N, V/A					RF, C/N	
Mesures numériques	DVB-T/H	DVB-T2/T2lite	DVB-C	DVB-C2	J83B	DVB-S, DSS	DVB-S2
Bit Error Rate (BER)	CBER (before Viterbi BERi) VBER (after Viterbi BERo) UNC (lost packets PER) Noise margin	LDPC (BERi) BCH (BERo) FER (frame error PER) Noise margin	BER (before Reed Solomon BERi) UNC (lost packets PER) Noise margin	BER (before Reed Solomon BERi) UNC (lost packets PER) Noise margin	BER after Reed Solomon BERo) UNC (lost packets PER) Noise margin	CBER (before Viterbi BERi) VBER (after Viterbi BERo) UNC (lost packets PER)	LDPC (BERi) BCH (BERo) PER Link margin — Link margin
Modulation Error Rate (MER)	5 - 35dB	5 - 35dB	20 - 40dB	20 - 40dB	20 - 35dB	0-20dB	
MER per carrier	yes	yes	-	yes	-		
Symbol rate	-	-	1 to 7.224 Ms/s (J.83A)	-	1 to 5,563 Ms/s	1 to 45Ms/s	1 to 45Ms/s
Bandwidth	5, 6, 7, 8 MHz	1,7, 5, 6, 7, 8 MHz	-	6, 8 MHz	-	-	-
Mode	-	SISO, MISO, PLP simple or multiple	-	PLP simple or multiple, data slice	-	-	-
FFT size	2k and 8k, auto and manuel	1k, 2k, 4k, 8k, 16k and 32k + bandwidth extension, auto	-	4k	-	-	-
Constellation	QPSK, 16 and 64QAM, auto	QPSK, 16, 64 and 256QAM, auto	16, 32, 64, 128 and 256QAM	16, 64, 256, 1024, 4096QAM	64, 256QAM	QPSK	QPSK, 8PSK, 16APSK, 32APSK
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (auto)	1/2, 3/5, 2/3, 3/4, 4/5, 5/6 (auto)	-	2/3, 3/4, 4/5, 5/6, 8/9, 9/10	-	1/2, 2/3, 3/4, 5/6, 6/7, 7/8 (auto)	2/5, 1/2, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (auto)
Guard interval	auto and manuel	auto	-	auto	-	-	-
Inverted spectrum	auto	auto	auto	auto	auto	auto	auto
HP/LP	yes	-	-	-	-	-	-
PLP choice	-	yes	-	yes	-	-	-
Multistream	-	-	-	-	-	-	oui, PL descrambling
Standards	ETS 301-701	ETS 302-755	ITU J83-AppendixA	ETS 302-769	ETS 302-769	ETS 300-421	ETS 302-307
Pre-echoes /Echoes / Impulse response							
Dynamic range	30 dB, 75km (en 8k)	50 dB, -75km +75km (en 8k)		50 dB, -5km +5km		-	-
Units	µs, km, miles	µs, km, miles		µs, km, miles		-	-
Constellation diagram	yes	yes	yes	yes	yes	yes	yes
Spectrum analysis							
Span	1MHz to full span in 1, 2, 5 sequences						
sweep time	100ms mini, 500 ms maxi						
Filters (automatic with selected span)	1,25k, 2,5k, 6,25k, 12,5k, 25k, 62,5k, 125k, 250k, 625kHz, 1,25MHz, 2,5MHz						
Attenuator	automatic ou manuel (0 to 50 dB with 10 dB steps)						
Dynamic (display)	60 dB (10 dB/div)						
With NIT(OSD) and TV picture	yes						
Measurement map							
Capacity	scrolling of 100 programs maximum						
Display	graphical (bargraph), tilt measurement						
Antenna Check mode							
Goal	fast antenna pointing					fast antenna pointing, single or double LNB	
Places/Satellites	30 places typical					30 satellites typical, with European database loaded	
NIT ckeck	yes ckeck 4 channels per place, can be modified by user					yes ckeck 4 channels per place, can be modified by user	
Signal Monitoring							
measurements	all, level and digital measurements						
duration	10mn, 60mn, 8h, 24h, 7d						
Memory							
Saving	internal non volatile memory, or USB memory stick (not supplied)						
Data	places, measure (level, BER/MER, frequency map, spectrums,…)						
Capacity	512 Kb (1000 files or folders max.)						
TV picture and sounds							
Analog programs	PAL, SECAM, NTSC						
Digital programs	MPEG2, MPEG4, HEVC, SD and HD definition						
Sounds	MPEG-1, MPEG-2, AAC, HE AAC, Dolby® Digital, Dolby® Digital Plus						
Encrypted programs	No, only free to air						
RF input							
Input	75 Ohm, F and BNC with adaptor supplied						
Max permissive voltage	50 Vrms /50Hz						

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Technical specifications	Terrestrial band	Satellite band
Remote supply and control		
Voltage	5V/13V/18 V/24V, 500 mA max (300mA pour 24V)	13/18 V, 500 mA max
DiSEqC	-	DiSEqC 1.2, dish rotor control, committed & uncommitted switches
Mini DiSEqC 22kHz)	-	22 kHz, ToneBurst
SatCR	-	DiSEqC protocol extension, control of 8 slots max.
DCSS	-	SatCR protocol extension, control of 32 slots max.
Aux Input/output		
Interfaces	USB A, Ethernet 10baseT (RJ45)	
Power supply input	jack 5.5 mm, 15 V max, 5 A max	
Audio/Video	HDMI output 720p, earphones output	
General specifications		
Display	10.1 inches color LCD 16/9, backlight 500 cd/m², 1280x800 dots, capacitive touch pad	
Power supply	main adaptor 110/230 VAC, jack with 5,5mm diameter, 15 V/5 A	
Battery (non removable)	LiOn battery 100W	
Autonomy	4 hours typical	
Built-in charger	1 hour charging time for 80% capacity	
Operating temperature	-5°C to 45°C	
Storage temperature	-10°C to 60°C	
EMC and safety	NF-EN 61362-1 / NF-EN 61326-3 / NF-EN 61010-1	
Dimensions	310 x 210 x 80 mm	
Weight	2,8 kg (battery and pouch included)	

Supplied with: main adaptor (90-245V with European plug), user's manual on CD ROM, F/F and F/BNC adaptor, carrying protective pouch, belt clip, transportation pouch.

Optional accessories:

Car cigar lighter	P/N 978361000
Transportation hardcase	P/N 978852000
A/V cable	P/N 978852000

978852000
Transportation
handcase

978361000
Car cigar
lighter
adapter

978853000
Audio/video
cable

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CE

FT7880 A00 - Specifications can be updated without notice

For assistance and ordering