SEFRAM 7885

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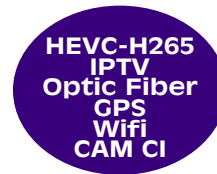
Capabilities

- 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 analog TV programs
- All measurements for **DVB-T/T2, DVB-C/C2 (J83-A and B)**, **DVB-S, DVB-S2, DAB/DAB+, Wifi**
- **IPTV** measurements and decoding
- **Optical input** with optical to RF converter, including Optical Power measurements
- 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
- ASI TS input and output and HDMI interface
- Analogue input and output
- **GPS**
- **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

HEVC-H265
IPTV
Optic Fiber
GPS
Wifi
CAM CI

NEW

2 YEAR
WARRANTY

TV ANALYSER

Sefram

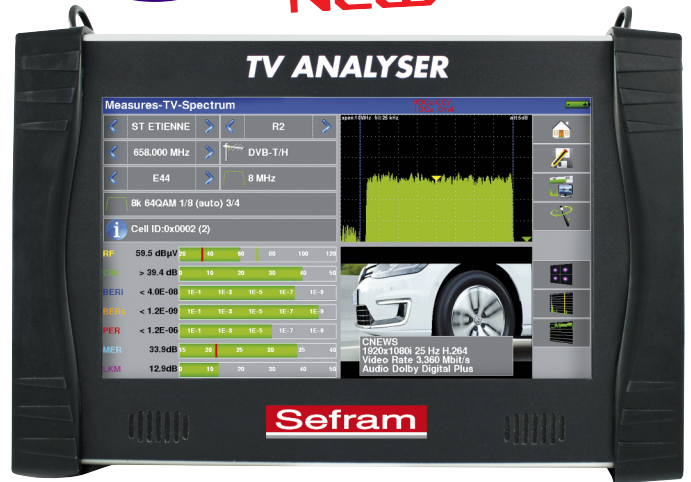## The most complete TV Meter of the market

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, GPS, 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 7885 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	DAB/DAB+	FM-RDS	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	BER (after Reed Solomon BERo)	PS, PI, OTY, ECC, RT	CBER (before Viterbi BERi) VBER (after Viterbi BERo) UNC (lost packets PER) Link margin	LDPC (BERi) BCH (BERo) PER Link margin
Modulation Error Rate (MER)	5 - 35dB	5 - 35dB	20 - 40dB	20 - 40dB	20 - 35dB	0-30dB	-	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	-	1,7MHz	-	-	-
Mode	-	SISO, MISO, PLP simple or multiple	-	PLP simple or multiple, data slice	-	Bande 3, Mode 1	-	-	-
FFT size	2k and 8k, auto and manuel	1k, 2k, 4k, 8k, 16k and 32k + bandwidth extension, auto	-	4k	-	2k	-	-	-
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	DQPSK	-	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 300-401	IEC 62106	ETS 300-421	ETS 302-307

Pre-echoes /Echoes / Impulse response

	DVB-T/H	DVB-T2/T2lite	DVB-C	DVB-C2	J83B			DVB-S, DSS	DVB-S2
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

	Terrestrial	Satellite
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 (*)	yes
MPEG TS analysis	ETR101290 alarms, bit rate analysis

RF input

Input	75 Ohm, F and BNC with adaptor supplied
Max permissive voltage	50 Vrms /50Hz

CE

Sefram

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, A/V jack for analog video input and earphones output	
ASI		
Functions	ASI input and output TS MPEG	
Frequency	270 MHz, 188/204 bytes, useful bit rate 70Mbit/s max	
Connector	BNC 75Ohms	
Optical Input		
Functions	optical power meter, referenced measurement, all measurement after RF conversion	
Wavelengths	1310, 1490, 1550 nm (optical splitter included)	
Connector	FC-APC, monomode fiber	
5GHz input		
Functions	all level and digital measurements	
Connector	SMA 50Ohms	
Remote supply	6,2V, 250mA	
GPS		
Functions	measurement mapping (export to GoogleEarth), sat in view' monitoring	
Connector	SMA 50Ohms	
Antenna	active 3V or 5V	
Wi-Fi		
Functions	Wi-Fi network level measurement, SSID	
Frequency	2,4 and 5GHz	
WiFi antenna input	SMA reverse 50Ohms, antenna	
IPTV		
Functions	Streaming TV, network measurement (IAT,…)	
Connector	RJ45 Ethernet 10/100/1000 Mbps	
Protocol	UDP/RTP protocol	
Transmission	Multicast, IGMP, SMPTE-2022	
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

(*): the display of digital encrypted programs is possible, if user has a valid subscription card and if the encryption type is supported by the TV Meter. Please check with our sales department when ordering. *Dolby is a trade mark of Dolby Laboratories.*

CE

For assistance and ordering