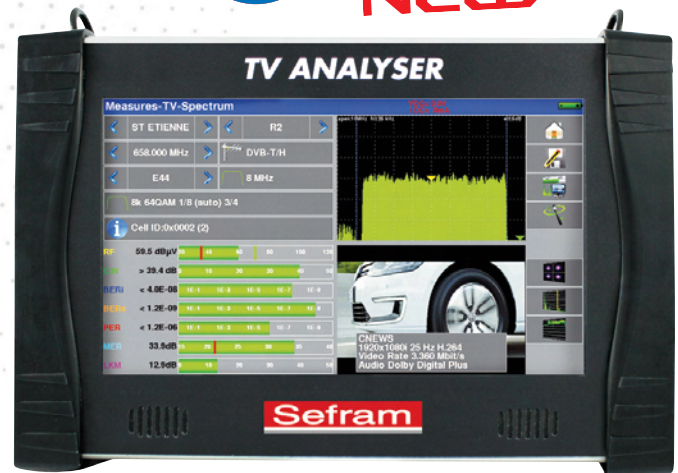


## SEFRAM 7881-4k

State-of-Art specifications  
for Ultra High Definition TV  
4k HDR decoding



**NEW**



### ■ Performances

- Panoramic LCD touch screen: 10.1 inches (16:9)
- Display free to air programs for digital terrestrial, cable and satellite
- Wideband : 5 MHz-2400 MHz
- Display High Definition TV programs MPEG4-H264 and HEVC (H.265 4k HDR)
- Display analog TV programs
- All measurements for DVB-T/T2, DVB-C (J83-A and B), DVB-S, DVB-S2, DVB-S2X (option), Wi-Fi
- MER per carrier
- 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
- Analog input and output
- Multistream capability
- 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

### ■ The most complete TV Meter of the market

Time is money! With its fast and expert spectrum analysis, the checksat mode with electronic compass and NIT, the Cell ID function, real time echoes and pre-echoes, the MER per carrier, the constellation diagram, the fast Auto-set, 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.

### ■ 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 7881-4k is fast and easy.

### ■ 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

### ■ 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!



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## Ultra High Definition TV 4k HDR decoding

Technical specifications		Terrestrial band				Satellite band			
Fréquence	5-1005 MHz							900-2400 MHz	
Range	measurement: 50 kHz, display: 1 kHz							measurement: 1MHz, display: 1MHz	
Resolution	20-120 dBµV							20-120 dBµV	
Level measurements	dBµV, dBmV, dBm							dBµV, dBmV, dBm	
Dynamic range	±2dB +/- 0.05dB/°C							±2dB +/- 0.05dB/°C	
Units	0,1 dB							0,1 dB	
Accuracy	25kHz							125kHz	
Resolution	BG, DK, I, L, MN, Carrier,							PAL, SECAM, NTSC,	
Measurement filters	DVB-T/T2/T2lite, DVB-C/C2, J83B							Carrier, DVB-S/S2/S2X, DSS	
Standards	RF, C/N, V/A							RF, C/N	
Measurements									
Digital measurement	DVB-T/H	DVB-T2/T2lite	DVB-C	DVB-C2	J83B	DVB-S, DSS	DVB-S2	DVB-S2X	
Bit Error Rate (BER)	CBER (before Viterbi BER) VBER (after Viterbi BER) UNC (lost packets PER) Noise margin	LDPC (BER) BCH (BER) FER (frame error PER) Noise margin	BER (before Reed Solomon BER) UNC (lost packets PER) Noise margin	BER (before Reed Solomon BER) UNC (lost packets PER) Noise margin	BER (after Reed Solomon BER) UNC (lost packets PER) Noise margin	CBER (before Viterbi BER) VBER (after Viterbi BER) UNC (lost packets PER) Link margin	LDPC (BER) BCH (BER) PER Link margin	BERi (before LDPC BERo (before BCH) PER (lost packets) MER LKM (Link Margin)	
Modulation Error Rate (MER)	5 - 35dB	5 - 35dB	20 - 40dB	20 - 40dB	20 - 35dB	0 - 20dB	0 - 20dB	0 - 20 dB	
Sensitivity								47 dBµV	
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	1 to 50 Ms/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 et 8k, auto and manual	1k, 2k, 4k, 8k, 16k et 32k + bandwidth extension, auto	-	4k	-	-	-	-	
Constellation	QPSK, 16 and 64 QAM, auto	QPSK, 16, 64 and 256 QAM auto	16, 32, 64, 128 and 256 QAM	16, 64, 256, 1024, 4096 QAM	64, 256QAM	QPSK	QPSK, 8PSK, 32APSK	QPSK, 8PSK, 8/16/32APSK-L	
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 manual	auto	-	auto	-	-	-	-	
Roll-off	-	-	-	-	-	-	-	0,05 - 0,35	
Inverted spectrum	auto	auto	auto	auto	auto	auto	auto	auto	
Viterbi	-	-	-	-	-	-	-	auto	
HP/LP	yes	-	-	-	-	-	-	-	
PLP choice	-	yes	-	yes	-	-	-	-	
Multistream	-	-	-	-	-	-	PL descrambling	stream selection 0 - 255 (ISI) PLS descrambling (Gold code)	
Standards	ETS 301-701	ETS 302-755	ITU J83-AppendixA	ETS 302-769	ETS 302-769	ETS 300-421	ETS 302-307	ETS 302 307 part 2	
Pre-echoes / Echoes / Impulse response									
Dynamic range	30 dB, 75km (in 8k)	50 dB, -75km +75km (in 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)	1,25 kHz, 2,5 kHz, 6,25 kHz, 12,5 kHz, 25 kHz, 62,5 kHz, 125 kHz, 250 kHz, 625 kHz, 1,25 MHz, 2,5 MHz								
Attenuator	automatic or manual (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 avec LNB simple ou double				fast antenna pointing, single or double LNB				
Sites/Satellites	10 places				30 satellites, with European database loaded				
NIT	yes check 4 channels per place, can be modified by user				yes check 4 transponders per satellite, 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								
RF input									
Input	75 Ohm, F and BNC with adapter supplied								
Max permissible voltage	50 Veff. /50Hz								

## Ultra High Definition TV 4k HDR decoding

Technical specifications	Terrestrial band	Satellite band
<b>Remote supply and control</b>		
Voltage	5 V/13 V/18 V/24V, 500 mA max (300mA for 24 V)	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.
<b>Aux Input/output</b>		
Interfaces	USB A, Ethernet 10/100baseT (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	
CAM DVB-CI module	1 slot for CAM DVB-CI module (contact us for compatibility)	
<b>ASI</b>		
Functions	ASI input and output TS MPEG	
Frequency	270 MHz, 188/204 bytes, useful bit rate 70Mbit/s max	
Connector	BNC 75Ohms	
<b>5GHz input</b>		
Functions	all level and digital measurements	
Connector	SMA 50 Ohms	
Remote supply	6,2 V, 250mA	
<b>Wi-Fi</b>		
Functions	Wi-Fi network level measurement, SSID	
Frequency	2,4 et 5GHz	
WiFi antenna input	SMA reverse 500hms, antenna	
<b>General Specifications</b>		
Display	10.1 inches color LCD 16/9, backlight 500 cd/m <sup>2</sup> , 1024x600 dots, capacitive touch pad	
Power supply	main adapter 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)	
Warranty	2 years	

(\*): 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.

**Supplied with:** main adapter (90-245V with European plug), F/F and F/BNC adapter, carrying protective pouch, belt clip, transportation pouch. The instruction manual is available directly on our website [www.sefram.com](http://www.sefram.com)

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Ultra High Definition TV 4k HDR decoding

## ■ Accessories



Carrying bag (provided in standard) - P/N: 978851000



Carrying case - P/N: 978852000



A/V external video cable - P/N: 978853000



Car cigar lighter adapter: - P/N: 978361000



Main power supply adapter (provided in standard):  
P/N: 978553000

For assistance and ordering



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FT7881-4k A 00 - Specifications can be updated without notice



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