# Sefram

# SEFRAM 7880-4k

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

**4K ULTRAHD**

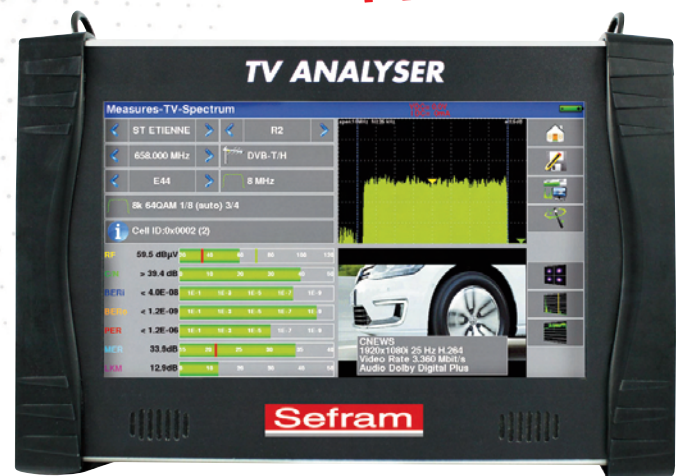**DVB-S2X (Option)**

**Wideband**

**2 YEARS warranty**

**NEW**



## Capabilities

- 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**
- 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 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.

## 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 7880-4k 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!

CE

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# SEFRAM 7880-4k

**Sefram**

## Ultra High Definition TV 4k HDR decoding

| Technical specifications | Terrestrial band | | | | | Satellite band | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency** | | | | | | | | |
| Range | 5-1005 MHz | | | | | 900-2400 MHz | | |
| Resolution | measurement: 50 kHz, display: 1 kHz | | | | | measurement: 1MHz, display: 1MHz | | |
| **Level measurements** | | | | | | | | |
| Dynamic range | 20-120 dBµV | | | | | 20-120 dBµV | | |
| Units | dBµV, dBmV, dBm | | | | | dBµV, dBmV, dBm | | |
| Accuracy | ±2dB +/- 0.05dB/°C | | | | | ±2dB +/- 0.05dB/°C | | |
| Resolution | 0,1 dB | | | | | 0,1 dB | | |
| Measurement filters | 25 kHz | | | | | 125 kHz | | |
| Standards | BG, DK, I, L, MN, FM, carrier, DVB-T/T2/T2lite, DVB-C/C2, J83B | | | | | PAL, SECAM, NTSC, Carrier, DVB-S/S2/S2X, DSS | | |
| Measurements | RF, C/N, V/A | | | | | RF, C/N | | |
| **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 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) Link margin | LDPC (BERi) BCH (BERo) PER Link margin | BERi (before LDPC BERo (before BCH) PER (lost packets) MER LKM (Link Margin) |
| Modulation Error Rate (MER) | 5 - 35 dB | 5 - 35 dB | 20 - 40 dB | 20 - 40 dB | 20 - 35 dB | 0 - 20 dB | 0 - 20 dB | 0 - 20 dB |
| Sensitivity | | | | | | | | 47 dBµV |
| Symbol rate | - | - | 1 to 7.224 Ms/s (J.83A) | | 1 to 5,563 Ms/s | 1 to 45 Ms/s | 1 to 45 Ms/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 and 8k, auto and manual | 1k, 2k, 4k, 8k, 16kk and 32 + 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, 256 QAM | QPSK | QPSK, 8PSK, 32 APSK | QPSK, 8PSK, 8/16/32 APSK-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) | - |
| Roll-off | | | | | | | | 0,05 - 0,35 |
| Guard interval | auto and manual | auto | - | auto | - | - | - | - |
| Inverted spectrum | auto | auto | auto | auto | auto | auto | auto | auto |
| Viterbi | | | | | | | | auto |
| HP/LP | yes | - | - | - | - | - | - | - |
| PLP choice | - | yes | - | yes | - | - | - | - |
| Multistream | - | - | - | - | - | - | PL descrambling | stream selction 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 max | | | | | | | |
| 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 | | | | | fast antenna pointing, single or double LNB | | |
| Sites/Satellites | 10 places | | | | | 30 satellites, with European database loaded | | |
| NIT | yes ckeck 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 permissive voltage | 50 Veff. /50Hz | | | | | | | |

# SEFRAM 7880-4k

## Ultra High Definition TV 4k HDR decoding

| Technical specifications | Terrestrial band | Satellite band |
|---|---|---|
| **Remote supply and control** | | |
| Voltage | 5 V/13 V/18 V/24 V, 500 mA max (300mA for 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 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) | |
| **5GHz input** | | |
| functions | level measurements | |
| Connector | SMA 50 Ohms | |
| Remote supply | 6,2 V, 250 mA | |
| **Wi-Fi** | | |
| functions | Wi-Fi network level measurement, SSID | |
| Frequency | 2,4 and 5 GHz | |
| WiFi antenna input | SMA (50 Ohms) | |
| **General Specifications** | | |
| Display | 10.1 inches color LCD 16/9, backlight 500 cd/m², 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 | 2years | |

**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

# SEFRAM 7880-4k

## Ultra High Definition TV 4k HDR decoding

### ■ Accessories


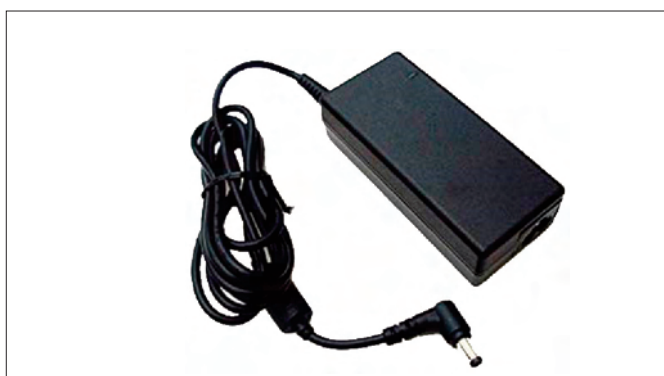Carring bag (provided in standard) - P/N: 978851000


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**

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**For assistance and ordering**

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FT7880-4k A 00 - Specifications can be updated without notice

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