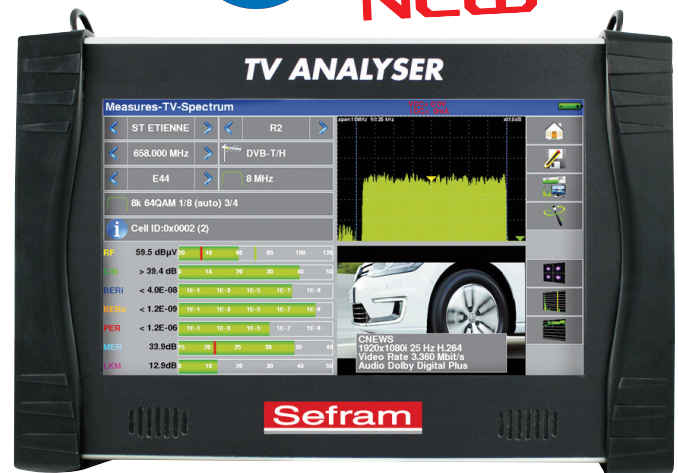


SEFRAM 78854K

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), DAB/DAB+, Wifi
- MER per carrier
- 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
- SFN delay for DVB-T
- T2MI via IP
- PVR
- Analog input and output
- GPS
- 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, 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.

■ 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 78854K 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!



Follow us on :



Ultra Hight Definition TV 4K HDR decoding

Spécifications techniques		Terrestrial band						Satellite band		
Frequency Range	5-1005 MHz						900-2400 MHz			
Resolution	measurement: 50 kHz, display: 1 kHz display: 1 MHz						measurement: 1 MHz,			
Level measurements										
Dynamic range	20-120 dBµV						20-120 dBµV			
Units	dBµV, dBmV, dBm						dBµV, dBmV, dBm			
Accuracy	±2 dB +/- 0.05 dB/°C						±2 dB +/- 0.05 dB/°C			
Résolution	0,1 dB						0,1 dB			
Measurement filters	25 kHz						125 kHz			
Standards	BG, DK, I, L, MN, FM, DAB/DAB+, 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	DAB/DAB+	FM-RDS	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 (BERi) BCH (BERo) FER (frame error PER) Noise margin	BER (before Reed Solomon BERi) UNC (lost packets PER) Noise margin	BER (avant Reed Solomon BERi) UNC (paquets perdus PER) Noise margin	BER (before 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	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	0-31dB	-	0-20dB	-	0-20dB
Sensitivity							47 dBµV			
MER per carrier	yes	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	-	1,7MHz	-	-	-	-
Mode	-	SISO, MISO, PLP simple or multiple	-	PLP simple or multiple data slice	-	Bande 3, Mode 1	-	-	-	-
FFT size	2k et 8k, auto and manual	1k, 2k, 4k, 8k, 16k et 32k + bandwidth extension, auto	-	4k	-	2k	-	-	-	-
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	DQPSK	-	QPSK	QPSK, 8PSK, 16 APSK, 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 et manuel	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 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 300-401	IEC 62106	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	-	-	40 dB ±250µs	-	-	-	-
Units	µs, km, miles	µs, km, miles	-	µs, km, miles	-	-	-	-	-	-
Constellation diagram										
	yes	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			
Sites/Satellites	10 places						30 satellites, with European database loaded			
NIT ccheck	yes						yes			
	ccheck 4 channels per place, can be modified by user						check 4 transponders per satellite, can be modified by user			
Signal Monitoring										
measurements	all, level and digital measurements									
Durée	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.)									

Ultra Hight Definition TV 4K HDR decoding

Spécifications techniques	Terrestrial band	Satellite band
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	According ETR101290 with alarms, bitrate analysis	
PVR complet	Personal Video Recording on intern memory / reading / complete multiplex export (services + DVB tables)	
RF input		
Input	75 Ohm, F and BNC with adapter supplied	
Max permissive voltage	50 Veff. /50 Hz	
Remote supply and control		
Voltage	5 V/13 V/18 V/24 V, 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.
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)	
ASI		
Fonctions	ASI input and output TS MPEG	
Frequency	270 MHz, 188/204 bytes, useful bit rate 70Mbit/s max	
Connector	BNC 75 Ohms	
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 50 Ohms	
Remote supply	6,2 V, 250 mA	
GPS		
Functions	measurement mapping (export to GoogleEarth), 'sat in view' monitoring	
Connector	SMA 50ohms	
Antenna	active 3 V or 5 V	
Wi-Fi		
Fonctions	Mesures de niveau des réseaux WiFi, SSID	
Frequency	2,4GHz	
Wi-Fi antenna input	SMA (50 Ohms)	
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, 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

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SEFRAM 78854K

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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



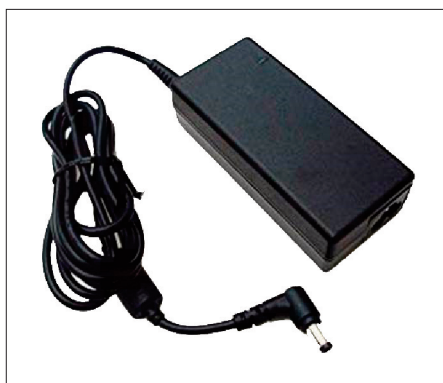
Optical fiber patchcord FC-PC / PC-APC
- P/N: 978754700



Optical fiber patchcord FC-APC / SC-APC
- P/N: 978754710



Car cigar lighter adapter
P/N: 978361000



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

For assistance and ordering



Sefram

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