Sefram

SEFRAM 7848

The ideal companion for Digital Terrestrial TV (DVB-T, DVB-T2/T2) and Digital Satellite (DVB-S/S2)
Display SD and HD* TV programs

NEW

DVB-T
DVB-T2
DVB-S
DVB-S2

Touch screen, compact, robust and easy to use

With its panoramic 7 inches touch screen, you have full benefit of the touch screen technology: intuitive access to functions, menus and measurements. The new rugged housing with protective bumpers is designed for extensive field use and protection of sensitive parts of the instrument.

All digital measurements in DVB-T, DVB-T2 , DVB-S and DVB-S2

The 7848 provides all measurements in **DVB-T/T2**, **DVB-S/S2**. For each digital standard, we provide all measurements, including BER, MER, lost packets, noise margin and echoes analysis.

Panoramic LCD with display of MPEG-2 and MPEG-4* TV programs

The 7848 offers a bright and panoramic hight quality LCD display for measurements results and free-to-air MPEG-2 / MPEG-4 programs display.

All necessary functions and tools to save time

The 7848 has a very simple and intuitive man-machine interface. Special functions have been added to save time and money.

Checking the alignment of antennas

The 7848 includes a checksat mode for satellite and a special tool to align terrestrial antennas. User will have a graphical information combined with a beeper.
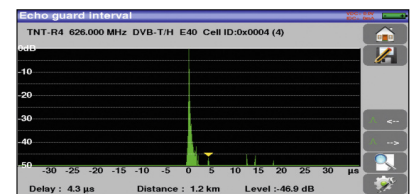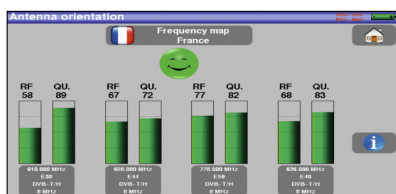
* only for free-to-air

USB interface

The 7848 includes one USB interface for updating and getting the benefit of free firmware update.

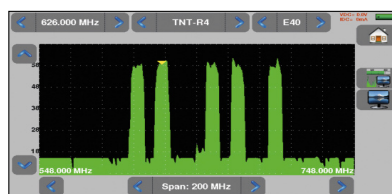*Home page for terrestrial: simple and intuitive*

Home page for satellite

Echoes / guard interval (terrestrial)

Alignment of terrestrial antenna with 4 multiplex

Spectrum in terrestrial mode

All measurements on a single screen

Sefram

Terrestrial & satellite TV Meter

Specifications	Terrestrial band		Satellite band	
Frequency				
Range	45-900 MHz		900-2200 MHz	
Resolution	Measure: 50kHz, display: 1kHz		Measure and display: 1 MHz	
Level measurements				
Dynamic range	20-120 dBµV		30-110 dBµV	
Measurements	level, RF power, C/N		level, RF power, C/N	
Noise level	10dBµV (typical)		20dBµV (typical)	
Units	dBµV		dBµV	
Accuracy	±2dB ± 0.05dB/°C		±2dB ± 0.05dB/°C	
Resolution	0,1dB		0,1dB	
Measurement filters	100kHz, 300kHz, 1MHz		1MHz, 3MHz, 10MHz	
Standards	B, G, D, K, I, L, M, N, FM, DVB-T/H/T2/T2Lite, DVB-C/C2 (level measurements only)		PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS	
Digital measurements	DVB-T/H	DVB-T2	DVB-S / DSS	DVB-S2
Error rate	BERi (before Viterbi), BERo (after Viterbi) UNC/PER (lost packets), NM (Noise Margin)	Before LDPC BCH (after LDPC) FER (lost packets, after BCH)	CBER, BERi, BERo, UNC, PER, Link margin	LDPC (BERi), BCH (BERo), Link Margin
Modulation Error Rate (MER)	5-35dB	5-35dB	0-20dB	0-20dB
Bandwidth	6, 7 or 8 MHz	1.7, 5, 6, 7 or 8 MHz	-	-
Symbol rate	-	-	1-45Ms/s	1-45Ms/s
Viterbi	1/2, 2/3, 3/4, 5/6, 7/8 (auto)	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 1/3, 2/5, auto	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, manual	auto	auto	auto
Inverted spectrum	auto	auto	auto	auto
Carriers / FFT	2k / 8k (auto)	1k, 2k, 4k, 8k, 16k, 32k + band extention	-	
HP/LP - PLP- Data Slice	HP/LP	PLP	-	-
Standards	EN 300-744	ETS 302-755	ETS 300-421	ETS 302 307
Spectrum analysis				
Sweep rate	350 ms typical, 400 points			
Filters	100kHz, 300kHz, 1MHz		1MHz, 3MHz, 10MHz	
Attenuator	automatic (0 to 55 dB, with 5 dB steps)			
Dynamic (display)	60 dB (10 dB/div)		60 dB (10 dB/div)	
Span	5MHz to full span in 1-2-5 sequence			
Pointing mode				
	fast search of transmitter 10 transmitters max 4 multiplex per transmitter		fast search of satellite 30 satellites max 4 transponders per satellite, with NIT	
Input / output				
Interface	USB A, Ethernet 10/100 baseT			
Power supply	15V / 1A with 5.5mm jack			
Remote supply				
Voltage	5V/13/18V/24, 500mA max		13V/18V, 500mA max	
DiSEqC	-		DiSEqC 1.2: dishes, committed and uncommitted switches	
22 kHz (mini DiSEqC)	-		22 kHz / 0,6V cc	
SatCR and DCSS	-		DiSEqC protocol extention, 8 slots maximum	
RF input				
Connector	75 Ohms (F/BNC adapter supplied)			
Maximum input voltage (DC or AC peak)	70 V DC, 50 Vrms/50Hz max			
Audio and video decoding				
Audio	MPEG-1, MPEG-2, AAC, HE AAC, Dolby® Digital, Dolby® Digital Plus			
Service table	SDT, LCN			
Video	MPEG-2 SD and MPEG4 HD (high definition H264)			
General specifications				
Display	7 inches (16:9), LCD TFT, backlight (500 cd/m2), resolution: 800 x 480			
Power supply	main adaptor 100-240V, output: 15V DC / 1A			
Battery (factory installed)	Lithium Ion (25W)			
Autonomy	2 hours (typical)			
Charging time	80% charging in 1H15			
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	250 x 165 x 65 mm			
Weight	1,35kg			
Warranty	1 year			

Supplied with : main wall plug adapter, user's manual (CD-ROM), F adaptor, carrying belt, carrying pouch.
Optional accessories :
• Sun protector + rain protector + belt hanger kit : 978489000
• Car cigar lighter adapter : 978361000
• Rain protector : 978489500

CE

FT7848 A01 - Specifications can be updated without notice

For assistance and ordering