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SEFRAM 7817

The ideal companion for Digital Cable TV (DVB-C/C2) and Digital Terrestrial TV (DVB-T and DVB-T2/T2Lite)
Display SD* and HD* TV programs

Touch screen, compact, robust and easy to use

With it's 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/T2 Lite and DVB-C/C2

The 7817 provides all measurements in DVB-T, DVB-T2/T2 Lite and DVB-C/C2 For each digital standard, we provide all measurements, including the constellation diagram and echoes analysis.

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

The 7817 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 7817 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 7817 includes a checksat mode for satellite and a special tool to align terrestrial antennas. User will have a graphical information combined with a beeper.
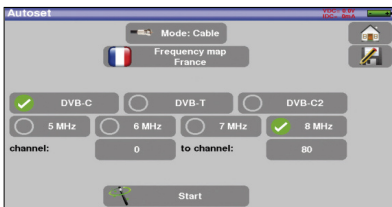
* for free-to-air only

NEW

DVB-T
DVB-T2/T2Lite
DVB-C/C2

TV ANALYSER

ARTE HD
1920x1080i 25 Hz H.264
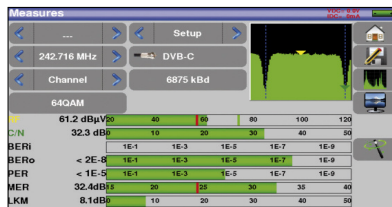Video Rate 10.649 Mbit/s
Audio MPEG Layer II
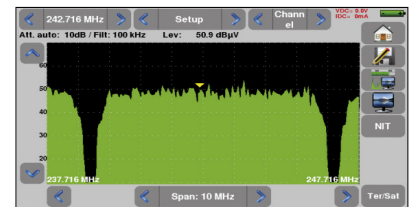
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USB interface

The 7817 includes one USB interface for updating and getting the benefit of free firmware updates. The interface can be used to transfer measurements data, screens shots to a USB memory stick.
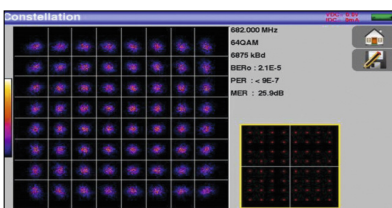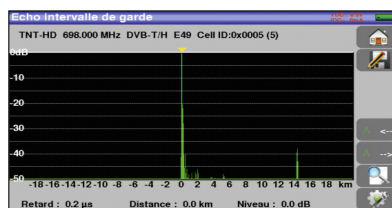

A powerfull Autoset

All measurements and information on a single screen

Spectrum in terrestrial

Constellation diagram

Echoes and pre-echoes

Measurement map

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Specifications — Terrestrial band

Frequency			
Range	5-900 MHz		
Resolution	Measure : 50kHz, display: 1kHz		
Level measurements			
Dynamic range	20-120 dBµV (30-120dBµV for 5 - 45MHz)		
Measurements	level, RF power, C/N		
Noise level	10dBµV (typical)		
Units	dBµV, dBmV, dBm, V		
Accuracy	±2dB ± 0.05dB/°C		
Resolution	0,1dB		
Measurement filters	100kHz, 300kHz, 1MHz		
Standards	B, G, D, K, I, L, M, N, FM, DVB-T/H/T2/T2 Lite, DVB-C/C2		

Digital measurements	**DVB-T/H**	**DVB-T2/T2 Lite**	**DVB-C (J83.A) / C2***
Error rate	BERi (before Viterbi), BERo (afterViterbi), UNC/PER (lost packets), NM (Noise Margin)	Before LDPC BCH (after LDPC) FER (lost packets, after BCH)	BER, UNC, NM, LDPC*, BCH*, FER*
Modulation Error Rate (MER)	5-35dB	5-35dB	DVB-C: 20-40dB, DVB-C2: 5-35dB
Bandwidth	6, 7 or 8 MHz	1.7, 5, 6, 7 or 8 MHz	6MHz, 8MHz
Symbol rate	-	-	DVB-C: 1 to 7,224Ms/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	2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Guard interval	auto, manual	auto	auto
Inverted spectrum	auto	auto	auto
Carriers / FFT	2k / 8k (auto)	1k, 2k, 4k, 8k, 16k, 32k + band extention	-
HP/LP - PLP- Data Slice	HP/LP	PLP	PLP + Slice data*
Multistream	-	-	-
Constellation	QPSK, 16QAM, 64QAM, auto	QPSK, 16QAM, 64QAM, 256QAM, auto	16QAM, 32QAM, 64QAM, 256QAM, 1024QAM*, 4096QAM*, auto
Echoes et pre-echoes	Dynamic: 50dB/ -75kms +75kms (8k)	Dynamic: 50dB/ -75kms+75kms (8k)	Dynamic*: 50dB/ -35kms+35kms (4k)
Standards	EN 300-744	ETS 302-755	

Spectrum analysis			
Sweep rate	350 ms typical, 400 points		
Filters	100kHz, 300kHz, 1MHz		
Attenuator	automatic (0 to 55 dB, 5 dB steps)		
Dynamic (display)	60 dB (10 dB/div)		
Span	5MHz at full span with 1-2-5 sequence		
Pointing mode			
	fast search of transmitter		
	10 transmitters max		
	4 multiplex per transmitter		
Measurement map			
Capacity	scrolling of 50 programs		
Display	texte		
Constellation diagram			
Display	display of constellation diagram		
Memory			
Data	measures, spectrum, constellation diagrams, echoes		
Capacity	1000 files max.		
Input / output			
Interface	USB A, Ethernet 10/100 baseT		
Power supply input	15V / 1A with 5.5mm input jack (male)		
Remote supply			
Voltage	5/13/18/24V, 500 mA max (300mA max. for 24V)		
RF input			
Connector	75 Ohms (F to BNC adaptor supplied)		
Maximum input voltage (DC or AC peak)	70 V DC, 50 Veff./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/BNC adaptor, carrying belt, carrying pouch.

Optional accessories :
Sun protector + rain protector + belt hanger kit : **P/N 978489000**
Carrying bag for accessories : **P/N 978751000**
Car cigar lighter adaptor : **P/N 978361000**
Rain protector : **P/N 978489500**

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FT7817 A00 - Specifications can be updated without notice

For assistance and ordering