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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 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/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 high 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

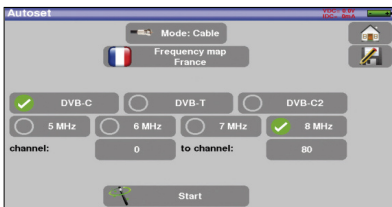
DVB-T  
DVB-T2/T2Lite  
DVB-C/C2

NEW

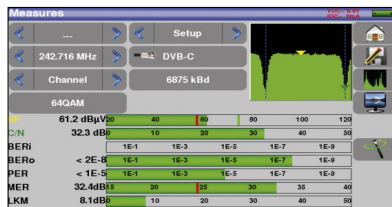


### USB interface

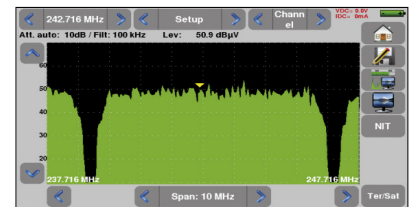
The 7817 includes one USB interface for updating and getting the benefit of free firmware updates. The interface can be used to transfer measurements data, screens shots to a USB memory stick.



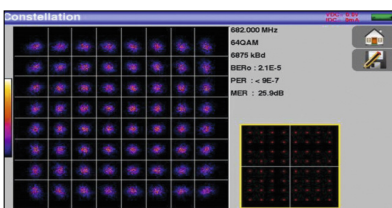
A powerfull Autoset



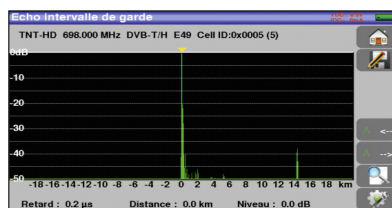
All measurements and information on a single screen



Spectrum in terrestrial



Constellation diagram



Echoes and pre-echoes

freq	std	RF	C/N	BERi	BERo	PER	MER
E 5	DVB-C	58.2	31.0	1.1E-6	<2E-5	29.9	
E12	DVB-C	62.8	34.8	<2E-8	<1E-5	32.6	
S18	DVB-C	61.3	32.7	<2E-8	<1E-5	32.4	
S34	DVB-C	68.0	42.4	7.3E-5	<1E-5	33.9	
S35	DVB-C	67.3	31.4	9.3E-5	<1E-5	33.5	
S36	DVB-C	67.1	31.4	1.0E-4	<1E-5	33.3	
S37	DVB-C	67.6	31.9	1.1E-4	<1E-5	33.1	
S38	DVB-C	66.6	31.6	1.2E-4	<1E-5	33.1	

Measurement map



Specifications		Terrestrial band		
<b>Frequency</b>	5-900 MHz			
Range	Measure : 50kHz, display: 1kHz			
<b>Level measurements</b>	20-120 dBµV (30-120dBµV for 5 - 45MHz)			
Dynamic range	level, RF power, C/N			
Measurements	10dBµV (typical)			
Noise level	dBµV			
Units	±2dB ± 0.05dB/°C			
Accuracy	0,1dB			
Resolution	100kHz, 300kHz, 1MHz			
Measurement filters	B, G, D, K, I, L, M, N, FM, DVB-T/H/T2/T2 Lite, DVB-C/C2			
<b>Digital measurements</b>	<b>DVB-T/H</b>			<b>DVB-T2/T2 Lite</b>
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)	DVB-C (J83.A) / C2* BER, UNC, NM, LDPC*, BCH*, FER*	
Modulation	5-35dB			DVB-C: 20-40dB, DVB-C2: 5-35dB
Error Rate (MER)	5-35dB			6MHz, 8MHz
Bandwidth	6, 7 or 8 MHz			DVB-C: 1 to 7,224Ms/s
Symbol rate	-			2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Viterbi	1/2, 2/3, 3/4, 5/6, 7/8 (auto)			auto
Guard interval	auto, manual			auto
Inverted spectrum	auto			auto
Carriers / FFT	2k / 8k (auto)			-
HP/LP - PLP- Data Slice	HP/LP			PLP + Slice data*
Multistream	-			-
Constellation	QPSK, 16QAM, 64QAM, auto			16QAM, 32QAM, 64QAM, 256QAM, 1024QAM*, 4096QAM*, auto
Echoes et pre-echoes	Dynamic: 50dB/-75kms +75kms (8k) EN 300-744			Dynamic*: 50dB/-35kms+35kms (4k)
<b>Spectrum analysis</b>	350 ms typical, 400 points			
Sweep rate	100kHz, 300kHz, 1MHz			
Filters	automatic (0 to 55 dB, 5 dB steps)			
Attenuator	60 dB (10 dB/div)			
Dynamic (display)	5MHz at full span with 1-2-5 sequence			
Span	fast search of transmitter			
<b>Pointing mode</b>	10 transmitters max			
	4 multiplex per transmitter			
<b>Measurement map</b>	scrolling of 50 programs			
Capacity	texte			
Display	display of constellation diagram			
<b>Constellation diagram</b>	measures, spectrum, constellation diagrams, echoes			
Display	1000 files max.			
<b>Memory</b>	USB A, Ethernet 10/100 baseT			
Data	15V / 1A with 5.5mm input jack (male)			
Capacity	5/13/18/24V, 500 mA max (300mA max. for 24V)			
<b>Input / output</b>	75 Ohms (F to BNC adaptor supplied)			
Interface	70 V DC, 50 Veff./50Hz max			
Power supply input	MPEG-1, MPEG-2, AAC, HE AAC, Dolby® Digital, Dolby® Digital Plus			
<b>Remote supply</b>	SDT, LCN			
Voltage	MPEG-2 SD and MPEG4 HD (high definition H264)			
<b>RF input</b>				
Connector				
Maximum input voltage (DC or AC peak)				
<b>Audio and video decoding</b>				
Audio				
Service table				
Video				
<b>General specifications</b>	7 inches (16:9), LCD TFT, backlight (500 cd/m2), resolution: 800 x 480			
Display	main adaptor 100-240V, output: 15V DC / 1A			
Power supply	Lithium Ion (25W)			
Battery (factory installed)	2 hours (typical)			
Autonomy	80% charging in 1H15			
Charging time	-5°C to 45°C			
Operating temperature	-10°C to 60°C			
Storage temperature	NF-EN 61362-1 / NF-EN 61326-3 / NF-EN 61010-1			
EMC and safety	250 x 165 x 65 mm			
Dimensions	1,35kg			
Weight	1 year			
Warranty				

**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



FT7817 A00 - Specifications can be updated without notice

**For assistance and ordering**



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