

SEFRAM 7817B

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

NEW



■ Touch screen, compact, robust and easy to use

With a 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, DVB-C/C2,

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

■ All necessary functions and tools to save time

The 7817B 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 7817B includes a pointing mode to align terrestrial antennas. User will have a graphical information combined with a beeper.

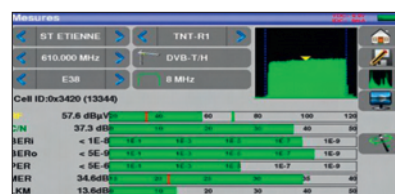
■ USB Interface

The 7817B 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.

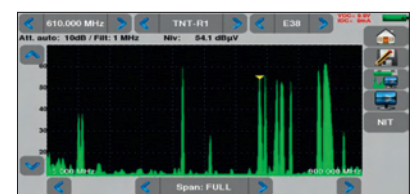
* only for free-to-air



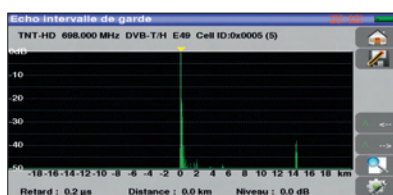
A performing autoset



All measurements displayed on a single screen



Fast spectrum analysis



Echoes display with guard interval

freq	std	RF	C/N	BERi	BERo	PER	MER
E38	DVB-T-H	56.6	35.9	4.7E-6	<1E-8	<1E-8	34.9
E44	DVB-T-H	57.1	36.7	9.9E-6	<1E-8	<1E-8	34.6
E59	DVB-T-H	60.0	39.0	<9E-6	<1E-8	<1E-8	34.8
E40	DVB-T-H	57.4	36.7	3.9E-6	<1E-8	<1E-8	33.9
E49	DVB-T-H	55.4	34.5	9.9E-6	<1E-8	<1E-8	33.7
E46	DVB-T-H	55.8	35.3	3.3E-7	<1E-8	<1E-8	33.8

Measurement map



Follow us on:



Terrestrial TV meter

Specifications		Terrestrial band			
Frequency					
Range	5 - 1005 MHz				
Resolution	measurement: 50kHz, display: 1kHz				
Level measurements					
Dynamic range	20 - 120 dBuV				
Units	dBuV, dBmV, dBm				
Accuracy	± 2 dB ± 0.05 dB/°C				
Resolution	0,1 dB				
Measurement filters	32 KHz				
Standards	DVB-T / T2 / T2Lite, DVB-C / C2 BC, DK, I, L, MN, DAB, FM, carrier				
Digital measurement					
	DVB-T	DVB-T2 / T2lite	DVB-C (J83.A)	DVB-C2	
Error rate	BERi (before Viterbi), BERo (before Reed-Solomon) PER (lost packets) MER LKM (Link Margin)	BERi (before LDPC) BERo (before BCH) PER (lost packets) MER LKM (Link Margin)	BER (before Reed Solomon BERo) UNC (lost packets PER) Noise margin	LDPC (BERi) BCH (BERo) FER (frame error PER)	
Modulation Error Rate (MER)	15 - 35 dB	15 - 35 dB	20 - 40 dB	25 - 35 dB	
Sensitivity	35 dBuV	35 dBuV	< 55 dBuV	< 55 dBuV	
Bandwidth	6, 7 or 8 MHz	1,7, 5, 6, 7 or 8 MHz	-	6 MHz, 8 MHz	
Mode	-	-	-	PLP and data slice, simple or multiple	
Carrier	2k / 8k	1k, 2k, 4k, 8k, 16k, 32k + band extension	16 / 32 / 64 / 128 / 256 QAM	-	
Constellations	QPSK, 16 - 64 QAM	QPSK, 16 - 256 QAM	-	16 / 64 / 256 / 1024 / 4096 QAM	
Rate	-	-	1 to 7.224 Ms/s	-	
Roll-off	-	-	-	-	
Guard interval	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32, 19/128, 19/256	-	auto	
Viterbi	auto	auto	auto	auto	
spectrum inversion	auto	auto	auto	auto	
HP/LP - PLP- Data Slice	HP/LP	PLP	-	PLP + Data Slice	
Multistream	-	-	-	-	
standards	EN 300-744	ETS 302-755	ETS 300-429	ETS 302-769	
Spectrum analysis					
Span	1MHz to full span in 1, 2, 5 sequences				
Sweep rate	100 ms mini, 1000 ms max				
Filters	1.6kHz, 3.2kHz, 8kHz, 16kHz, 32kHz, 80kHz, 160kHz, 320kHz, 800kHz, 1.6MHz, 3.2MHz				
Attenuator	automatic (0 to 55 dB, with 5 dB steps)				
Display	60 dB (10 dB/div)				
Antenna Check mode					
Settings	fast antenna pointing 10 places check 4 channels per place, can be modified by user				
Remote supply and control					
Voltage	5 / 13 / 18 / 24V, 500 mA max				
TV picture and sounds					
Sounds	MPEG-1, MPEG-2, AAC, HE AAC, Dolby® Digital, Dolby® Digital Plus				
Table of services	SDT, LCN				
Video	MPEG-2 SD and MPEG4 HD (high definition H264)				
RF input					
Input	75 Ohms, (F-F and BNC/F adaptor supplied)				
Max permissible voltage	50V DC, 33Veff / 50Hz max				
Analog video input					
Connector	jack 3,5 mm, 4 contacts				
Voltage	video 1Vpp max / audio 10 kOhms				
Standards	PAL, SECAM, NTSC				
Aux input/output					
Interface	USB A, Ethernet 10/100 base-T				
Remote supply	15V / 1A with jack 5.5mm				
General specifications					
Display	LCD TFT color, 7 inches, 16/9, backlight (500 cd/m2), resolution 800 x 480, capacitive touch screen				
Power supply	main adapter 110/230 VAC, 15V DC / 1A, jack 5,5 mm diameter				
Battery (non removable)	Lithium Ion 33Wh				
Autonomy	terrestrial : 2H / satellite : 1H30 (according to use)				
Charging time	2H for 80% / 3H for 100%				
Operating temperature	-5°C to 40°C				
Storage temperature	-10°C to 60°C				
EMC and safety	NF-EN 61326-1 / NF-EN 61326-2 / NF-EN 61010-1				
Dimensions	250 x 165 x 65 mm				
Weight	1,35kg				
warranty	1 year				

Supplied with : main charging adapter (90-245V with European plug), F-F adapter, transportation pouch. The instruction manual is available directly on our website www.sefram.com



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SEFRAM 7817B



Terrestrial TV meter

■ Accessories



Sun protector+rain protector+belt clip - P/N: 978489000



Rain protector - P/N: 978489500



Carrying bag (supplied in standard) - P/N: 978481000



Carrying case - P/N: 978483000



Charging adapter (supplied in standard) - P/N: 978061000



Car cigar lighter adapter - P/N: 978361000

For assistance and ordering



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FT7817B A 00 - Specifications can be updated without notice



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