



M7848

Art. 55-108

Professional measuring instrument
ideal for DVB-T/T2 and DVB-S/S2



EASY TO USE AND INTUITIVE. Panoramic 7 inches touch screen allows a simple and intuitive access to menus and measurements, also thanks to special functions that have been added to save time and money.

COMPACT, LIGHTWEIGHT AND ROBUST. Its small size and weight make M7848 field meter very manageable in every situation. The new rugged housing with protective bumpers is designed for extensive field use and protection of sensitive parts of the instrument. Interchangeable F connector.

LONG-LASTING OPERATING TIME. Battery autonomy is 2 hours (typical) and charging time is 1 hour and 15 minutes.

DISPLAY SD* AND HD* TV PROGRAMS. The TV meter allows to display free to air MPEG-2 and MPEG-4 with Dolby® Digital Plus audio TV programs.

*only free to air

ALL TV AND SAT DIGITAL MEASUREMENTS. The M7848 provides all measurements in DVB-T/T2 and DVB-S/S2: before and after Viterbi BER, MER, PER (lost packets).

REMOTE SUPPLY FROM 5V TO 24V IS INCLUDED. When the remote supply is needed for external amplifiers and LNB, the M7848 will offer the following voltages: 5V, 13V, 18V and 24V.
The TV meter also provides DiSEqC 1.2, SatCR and DCSS compatibility.

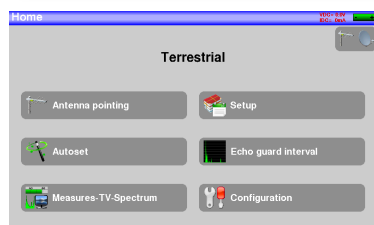
LCD COLOUR DISPLAY. The M7848 offers a bright and panoramic backlight high quality LCD display (16:9) for measurements results and free-to-air MPEG-2 / MPEG-4 programs.

ALL NECESSARY FUNCTIONS AVAILABLE. The TV meter includes a spectrum analyser and displays the echoes (guard interval for DVB-T/T2).

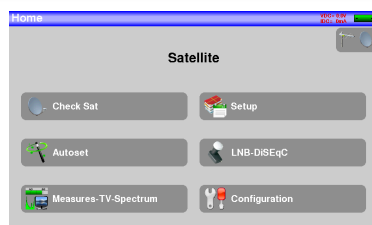
FAST SEARCH. The M7848 includes a checksat mode for satellite and a special tool to align terrestrial antennas. User will have a graphical information combined with a beeper.

FREE SOFTWARE UPDATES. The 7848 includes an USB interface for updating and getting the benefit of free firmware updates.

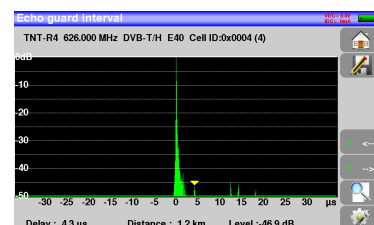
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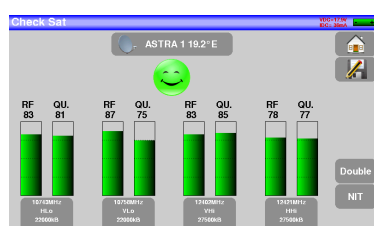
Home page for terrestrial.



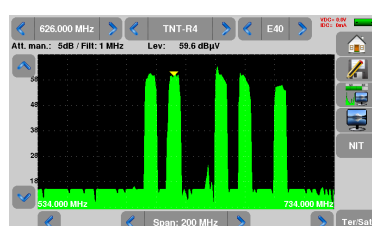
Home page for satellite.



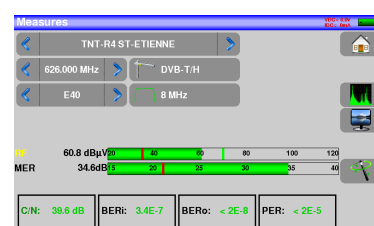
Echoes / guard interval (terrestrial).



Fast checksat mode for dish alignment.



Spectrum in terrestrial mode.



All measurements on a single screen.



Specifications	Terrestrial band		Satellite band	
Frequency				
Range	45÷900 MHz		900÷2200 MHz	
Resolution	measure: 50 KHz, display: 1 KHz		measure and display: 1 MHz	
Level measurements				
Dynamic range	20÷120 dBµV		30÷110 dBµV	
Measurement	level, RF power, C/N		level, RF power, C/N	
Noise level	10 dBµV (typ)		20 dBµV (typ)	
Units	dBµV, dBmV, dBm, V		dBµV, dBmV, dBm, V	
Accuracy	±2dB ± 0,05 dB/°C		±2dB ± 0,05 dB/°C	
Resolution	0,1 dB		0,1 dB	
Measurement filters	100 KHz, 300 KHz, 1 MHz		1 MHz, 3 MHz, 10 MHz	
Standards	B/G, D/K, I, L, M/N, FM, DVB-T/H/T2, 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)	before LDPC BCH (after LDPC) FER (lost packets, after BCH)	BERi, BERo, UNC/PER	LDPC (BERi), BCH (BERo), PER
MER	5÷35 dB	5÷35 dB	0÷20 dB	0÷20 dB
Symbol Rate	-	-	1 to 45 Ms/s	1 to 45 Ms/s
Bandwidth	6, 7 or 8 MHz	1.7, 5, 6, 7 or 8 MHz	-	-
Carriers/FFT	2k / 8k (auto)	1k, 2k, 4k, 8k, 16k, 32k + band extension	-	-
FEC	1/2, 2/3, 3/4, 5/6, 7/8, auto	1/2, 1/3, 2/3, 2/5, 3/4, 3/5, 4/5, 5/6, auto	1/2, 2/3, 3/4, 5/6, 6/7, 7/8, auto	1/2, 2/3, 2/5, 3/4, 3/5, 5/6, 8/9, 9/10, auto
Inverted Spectrum	auto	auto	auto	auto
Guard Interval	auto, manual	auto	auto	auto
HP/LP - PLP - Data Slice	HP/LP	PLP	-	-
Standards	EN 300 744	EN 302 755	EN 300 421	EN 302 307
Spectrum Analysis				
Sweep Rate	350 ms typical, 400 points			
Filters	100 KHz, 300 KHz, 1 MHz		1 MHz, 3 MHz, 10MHz	
Attenuator	automatic (0 to 55 dB, 5 dB steps)			
Dynamic (display)	60 dB (10 dB/div)			
Span	5 MHz to full span with 1-2-5 sequence			
Input/Output				
Interface	USB A, Ethernet 10/100 baseT			
Power Supply Input	15 Vdc / 1 A with 5,5 mm input jack (male)			
Remote Supply and Control				
Voltage	5 / 13 / 18 / 24 V, 500 mA max		13 / 18 V, 500 mA max	
DiSEqC	-		DiSEqC 1.2: dishes, committed/uncommitted switches	
22 kHz (mini DiSEqC)	-		22 KHz / 0,6 Vdc	
SatCR and DCSS	-		DiSEqC protocol extension, 8 slots maximum	
RF Input				
Connector	75 Ohm (F adaptor supplied)			
Maximum Input voltage	70 Vdc, (DC or AC peak) 50 Vrms / 50 Hz 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 MPEG-4 HD (high definition H264)			
General specifications				
Display	7 inches (16:9) colour LCD TFT, backlight (500 cd/m²), resolution: 800x480			
Power supply	Main adaptor 100÷240V, output: 15 Vdc / 1 A			
Battery (factory installed)	Lithium Ion (25 W)			
Autonomy	2 hours (typical)			
Charging time	80% charging in 1h15			
Temperature	Operating: da -5°C fino a 45°C; Storage: da -10°C fino a 60°C			
EMC and safety	EN61362-1, EN61326-3, EN61010-1			
Dimensions and Weight	250x165x65 mm; 1,35 Kg			
Warranty	1 year			
Supplied with	Main wall plug adapter; user manual (CD-ROM); F adaptor; carrying belt; carrying pouch			

