

SATELLITE, TERRESTRIAL/CABLE MEASURE INSTRUMENT

# TSC 1270

**FAST SPECTRUM AND  
DISEQC MONITOR SUPPORT**

DVBS2

DVBT2/C

ATV



**SATELLITE  
LOCATOR**

**REAL TIME ANGLE  
CALCULATION**

## Main features:

- DVBS/DVBS2/DVBT/DVBT2/DVBC/DVBC2/ATV
- LNB short-circuit protection and indicator.
- Extremely fast and accurate with high sensitivity.
- 400\*360 color LCD display
- Database editable by user easily.
- Signal lock audible notification.
- Database can be edited on PC and downloaded by USB port.
- Ultra-long standby, low power consumption.
- Fast charging Li-ion battery can last around 3 hours

## Sepecification

<b>DVB-T</b>	
Bit Error Rate (BER)	CBER (before Viterbi): 1E-7 – 1E-3 VBER (before Reed Solomon): 1E-7 – 1E-3
Frequency range	42-1005MHz
Power level	30-100 dBμV, +/-2dB
MER	5 - 35dB, +/-0.5dB
Bandwidth	6MHz, 7 MHz, 8 MHz
FFT type	2k, 8k
Constellation	QPSK, 16QAM, 64QAM
Viterbi rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	auto
Spectrum inversion	auto
<b>DVB-T2 / T2 Lite</b>	
Bit Error Rate (BER)	CBER (before LDPC): 1E-7 – 1E-3 LBER (before BCH): 1E-9 – 1E-5
Frequency range	42-1005MHz
Power level	30-100 dBμV, +/-2dB
Modulation Error Rate(MER)	5 - 35dB, +/-0.5dB
Bandwidth	1.7MHz, 5MHz, 6MHz, 7 MHz, 8 MHz
Mode	SISO, MISO, PLP single or multiple
FFT type	1k, 2k, 4k, 8k, 16k, 32k + extended bandwidth
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Viterbi rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 1/3, 2/5
Guard Interval	auto
Spectrum inversion	auto
<b>DVB-C</b>	
Bit Error Rate (BER)	BER (before Reed Solomon): 1E-7 – 1E-3 PER (Packet Error Rate): 1E-6 – 1E-2
Frequency range	42-1005MHz
Power level	35-100 dBμV, +/-2dB
MER	20 - 40dB, +/-0.5dB
Symbol Rate	1.7 to 7.2 Msym/s
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Spectrum inversion	auto
<b>DVB-C2</b>	
Bit Error Rate (BER)	CBER (before LDPC): 1E-7 – 1E-3 LBER (before BCH): 1E-9 – 1E-5
Frequency range	42-1005MHz
Power level	30-100 dBμV, +/-2dB
MER	5 - 35dB, +/-0.5dB

Bandwidth	6MHz, 8 MHz
FFT type	4k
Constellation	16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Viterbi rate	2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Guard interval	auto
Spectrum inversion	auto
<b>DVBS</b>	
Bit Error Rate (BER)	CBER (before Viterbi): 1E-7 – 1E-3 VBER (before Reed Solomon): 1E-7– 1E-3
Frequency range	950-2150MHz
Power level	35-100 dBμV, +/-3dB
MER	0 - 20dB, +/-0.5dB
Symbole rate	1 Msym/s to 45 Msym/s
Constellation	QPSK
Viterbi rate	1/2, 2/3, 3/4, 5/6, 6/7, 7/8
Spectrum inversion	auto
<b>DVBS2</b>	
Bit Error Rate (BER)	CBER (before LDPC): 1E-7 – 1E-3 LBER (before BCH): 1E-9 – 1E-5
Frequency range	950-2150MHz
Power level	35-100 dBμV, +/-3dB
MER	0 - 20dB, +/-0.5dB
Symbol rate	1M sym/s to 45 Msym/s
Constellation	QPSK, 8PSK, 16APSK, 32APSK
Viterbi rate	2/5, 1/2, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Spectrum inversion	auto
<b>ATV</b>	
Frequency range	42-1005MHz
Video Audio System	NTSC_M PAL_G PAL_M PAL_N PAL_K PAL_L PAL_I SECAM_L ECAM_B SECAM_D