

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<br>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<br>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<br>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<br>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<br>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<br>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<br>SECAM_D         |