

KABELKOM

DVBS2 satellite signal analyzer AMS-DVBS2



- low weight, hand-held DVBS/S2 signal analyzer
- automatic parameter recognition (transponder frequency, symbol rate SR, FEC, polarization)
- Dual LNB dish alignment
- measurement of signal power level, pre- and post-BER, MER
- spectrum analyzer function
- Audio Indication measurement mode
- input DC voltage measurement
- LNB powering and DiSEqC 2.1 control
- user-friendly interface on LCD display
- Data logger for storage of LNB profiles, transponder parameters and measurement results
- 1-2 hours of continuous work (battery supply - depending on the operation mode)
- two-year warranty

The digital satellite television DVB-S has become a very popular among TV subscribers. The new DVB-S2 standard has been introduced a few years ago. **KABELKOM** has developed an extremely useful and reliable DVBS2 signal analyzer – **AMS-DVBS2**. The **AMS-DVBS2** can be used by technicians and engineers and has been designed for testing and adjustment of satellite television antennas and simple distribution networks. It simplifies the DVB-S antenna/home network installation and maintenance. The reception of DVB-S/S2 signals cannot be simply verified by means of a TV receiver – the signal parameters should be measured, so a signal analyzer is absolutely necessary for those who install satellite TV antennas. The **AMS-DVBS2** allows the measurement of the basic parameters of satellite signals. The meter can be used both in a laboratory or service center (with an external power source) and in the field (powered by its battery or using a car cigarette lighter socket).

With the AMS-DVB-S2 you can:

- check whether the antenna direction toward a TV satellite is aligned correctly
- check whether the TV signal power level is above a minimum level required for good reception
- check whether other TV signal parameters at the LNB output are within the accepted limits
- check cable attenuation
- check the antenna and LNB quality
- simply and quickly find a corroded connector, damaged LNBs or antennas
- verify the spectrum of the received signals and/or interfering signals.

SPECIFICATION

GENERAL

Dimensions:	193 x 94 x 53 mm
Weight:	0.5 kg
Normal operating conditions:	
a) ambient temperature:	(23±5) °C
b) relative air humidity:	(55±25)%
c) atmospheric pressure:	84-106 kPa (630-795 mm Hg)

Rated operating conditions:

a) ambient temperature range:	-10 to +50 °C
b) relative air humidity:	<90% at 25 °C
c) atmospheric pressure:	84-106 kPa (630-795 mm Hg)

Storage temperature range: -20 to +50 °C

Storage humidity: <90% (at 30 °C)

POWERING

Battery type:	Li-Ion
Battery capacity:	1.5 Ah (standard) 3 Ah (option)
Battery life:	1-2 hours of continuous work (depending on the operation mode)
AC mains:	AC 100/240 V 50/60 Hz via 12 V/1.2 A charger
External DC	source from 10 to 14 V and ripple level no greater than 0.5 V

ELECTRICAL

Operating frequency range:	950 to 2150 MHz
Resolution:	1 MHz
LNB supply voltage:	13 V, 18 V
Max LNB supply current:	300 mA
DiSEqC version:	2.1

INPUT PARAMETERS:

- 🌐 **Input impedance** within operating frequency range: 75 Ω
- 🌐 **Connector type:** F
- 🌐 **Level measurement range:** 40 to 100 dBμV
- 🌐 **Measurement level resolution:** 0.1 dB
- 🌐 **Accuracy:** ±2.5 dB (at 25°C)
- 🌐 **Measurement channel passband** for -3 dB level: 10 to 65 MHz

INPUT TV SIGNAL MODULATION

- 🌐 **Channel bandwidth:** 8 MHz
- 🌐 **Modulation type:** QPSK (DVB-S/S2), 8PSK (DVB-S2)
- 🌐 **Symbol rate:** 1 to 45 MSps
- 🌐 **FEC:** 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8, 8/9, 9/10
- 🌐 **MER measurement range:** 4 to 15 dB
- 🌐 **BER measurement range**
- 🌐 **prior to Viterbi decoder:** 1.0×10^{-2} to 1.0×10^{-7}
- 🌐 **after Viterbi decoder:** 1.0×10^{-4} to 1.0×10^{-8}
- 🌐 **prior to LDPC decoder:** 1.0×10^{-4} to 1.0×10^{-7}
- 🌐 **after LDPC decoder:** 1.0×10^{-10} to 1.0×10^{-12}
- 🌐 **LNB frequency error:** ±10 MHz

IF YOU WANT TO PURCHASE THE METER OR OBTAIN MORE INFORMATION, CONTACT KABELKOM.

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