



TechniTouch HD

PROFESSIONAL COMBINED ANALYZER, 4-2.250 MHz, for SAT QPSK/8PSK - TV COFDM and CATV QAM signals

EAN	Colour	Item no.
4019588134348	blue	0001/3434

TOP FEATURES

7" 16:9 TFT Farb-LCD - Touchscreen-Display	DVB-S/S2, DVB-C, DVB-T und AMTV Messung	Frequenzbereich von 4-2250 MHz, Echtzeitspektrum
Konstellationsdiagramm	MPEG-2 & MPEG-4 Bildwiedergabe	CAM-Einschub
Über 40 Satellitenpositionen mit allen Frequenzen vorprogrammiert	HDMI Ausgang	Li-Ion-Akkupack 10,8 V / 4,5 Ah

FREQUENCY RANGE

TV digital & analogue - Radio FM: 4 ... 930 MHz

Digital & analogue satellite: 930 ... 2.250 MHz

Memory schema: bis zu 99 Pläne

Programmes: 199 Programme je Plan

GENERAL CHARACTERISTICS

Input impedance: 75 Ω

Replaceable input jack: F, BNC, IEC

RF input protection: max. 60 VAC

Analogue TV: 5 ... 125

Analogue SAT: 30 ... 125

SAR QPSK: 30 ... 125

COFDM (demodulated): 30 ... 125

RF level: 30 ... 125 dB μ V

Measurement result indication: PEGEL/POWER
niedrig/Hoch

File Manager: für Organisation von Programm-
und Messdaten-Speicher

ENCODER/dial: Ja (Touch-Sensor)

LNB stream measurement: 0 ... 500 mA

Measurements display / classification: 0,1 dB
(Pegel und Power)

Unit of measurement: dB μ V/dBm (wählbar)

RBW @ -3dB: 100 kHz (FM), 130 kHz (TV), 4 MHz
(SAT)

Accuracy of measurement: typ. 1,5 dB SAT; 1 dB
TV

Measurement stability dB/°C (-10°C - 50°C): 0,03
(TV); 0,1 (SAT)

AC/DC adapter: 230 VAC / 12 VDC (3A)
(Steckernetzteil)

Voltage supply: 12 VDC (3A)

Battery standby time at 25°C: 6 - 10 Stunden

Low battery alarm: Akustisch und Symbol im
Display

Display: 7" 16:9 Farb-TFT-LCD Touchscreen

Automatic power off via timer: 5 min (Ein/Aus)

RF input/output voltage: Off, 13V, 18V, 24V,
22kHz (0,3A)

Audio: 2 x 0,5 W Lautsprecher (regelbare
Lautstärke)

Sound/buzzer: für Qualität oder Pegel-
Indikation, wählbar

Interface: USB 2.0

Audio/Video input/output: HDMI out & AV
in/out

MEASUREMENT DVB-S2

QPSK selectable standard: DVB kHz

Symbol rate: 2 ... 45 @ 1KS/s Schritte

FEC (auto. recognition): 1/2, 2/3, 3/4, 4/5, 5/6, 6/7,
7/8, 8/9

MPEG-2 and MPEG-4 HD: Ja

NET. ID: Programmlist, VideoPID, AudioPID,
Verschlüsselung

Noise Margin / Signal Reserve and SNR accuracy of
measurement: 1 dB

Conditional access: CAM-Einschub

MEASUREMENT DVB-T

Offset frequency: 166 kHz

MER and BER measurement tolerances: 1 dB typ.
(2 db Max.)

MER measurement: ≤ 38 dB

BER: bBER bis zu 1×10^{-5} ; aBER bis zu 2×10^{-8}

Automatic recognition and display: Constellation,
Guard Interval, FEC

Constellation: 16-, 32-, 64-, 128-, 256-QAM

Guard interval: 1/4, 1/8, 1/16, 1/32

FEC: 1/2, 2/3, 3/4, 5/6, 7/8

Spectrum inverted: automatisch

Automatic quality analysis: FAIL - MARGIN - PASS

Noise Margin / Signal Reserve and SNR accuracy of
measurement: 1 dB

MEASUREMENT SAT

DiSEqC "a-b-c-d": vorprogrammiert und einfach
zu nutzen. Zur Ansteuerung fast aller LNBS
(analog oder DiSEqC, singel und dual feed) und
Multischalter (analog oder DiSEqC mit 4, 8, 12,
16 Eingängen und SCR-LNBS).

S.C.R: 1 bis 8 Anwender

LNB LO frequency: 0 ... 20.000 MHz
durchgehend

Reception range: 930 ... 2.250 MHz

SPAN: 50 - 100 - 200 - 500 - Full (Total)

db / div: 5

Dynamic range display: > 30 dB

MRK measurement illustration: 0,1 dB

Filter measurement bandwidth: 4 MHz @ -3 dB

Reference level: 0 ... 130

Other configurable spectrum parameters /
functions: MAX HOLD (peak memory) / Max
Wert einfrieren; SAT POINTING Optimale
Parameter-Einstellung zur Ausrichtung der SAT-
Antenne

MEASUREMENT TV ANALOG

Frequency range: 44 ... 870 MHz

Input impedance: 75 Ω

RF level measurement range: 5 ... 125

Measurements display: 0,1 dB

Multi standard: M-N-B-G-I-D-K-PAL-NTSC (SECAM L
France)

A/V (audio/video) ratio accuracy: 1,5 dB Typ.

MEASUREMENT TV TERRESTRIAL

Frequency range: 4 ... 930 MHz

Reception range: 4 ... 65 MHz

SPAN TV band (spread): 2-5-7-10-20-50-100-200-
500-VHF-UHF-FULL

db / div: 10

Dynamic range: 60 dB

Measurements display: 0,1 dB

Filter measurement bandwidth: TV 130 @ -3 dB

Reference level: 0 ... 130

Automatic power / level position marker: für
Digital-Signale im Zentrum des Trägers für
analoge Signale auf dem Video-Träger

Other configurable spectrum parameters /
functions: MAX HOLD (max. Wert einfrieren)

INGRESS spectrum: 4 ... 65 MHz

Leakage / interference radiation measurement:
Antenne und Entfernungs-Parameter einstellbar

MEASURING DVB-C

Demodulated QAM signals: Annex A - B - C,
down stream DOCSIS

Symbol rate: 2.000 ... 9.000

Constellation diagram display: 16-, 32-, 64-, 128-,
256-QAM

MER measurement: 64-QAM > 36dB; 128-QAM
> 38dB; 256-QAM > 40dB

BER measurement: bis zu 1×10^{-9}

Spectrum inverted: automatisch

Multiplex flatness: 0,7 dB typ.

Automatic quality analysis: FAIL - MARGIN - PASS

Noise Margin / Signal Reserve and SNR accuracy
of measurement: 1 dB

C/N measurement tolerance: 60 dB im
Spectrum typ.

POWER SUPPLY

Rechargeable battery: Li-Ion; 10,8 V/4,5 Ah

Battery life: 2 Std. @ 25°C

Nominal voltage: 110 ... 240 V

Battery charging time: 2 Std. umd 50% Kapazität
zu erreichen

Frequency: 50 ... 60 Hz

Mains adapter: extern (Steckernetzteil)

SCOPE OF DELIVERY

TechniTouch meter, bag, plug adapter, USB cable, charger / AC adapter, 12V charger and DiSEqC-Relais