Ek EKSELANS BY ITS

ENTER THE EK WORLD

METEK HDD

PROFESSIONAL FIELD METERS

Ek

METEK

DEVELOPED BY AND FOR PROFESSIONALS

Ekselans by ITS introduces METEK product range, professional field meters. Designed and developed completely by our R&D team, are presented to the market as a complete, intuitive field meters that completely covers the current and future needs of telecommunication installers.

Access a professional field meter, with an unbeatable quality-price ratio and with the support and guarantee of EK.
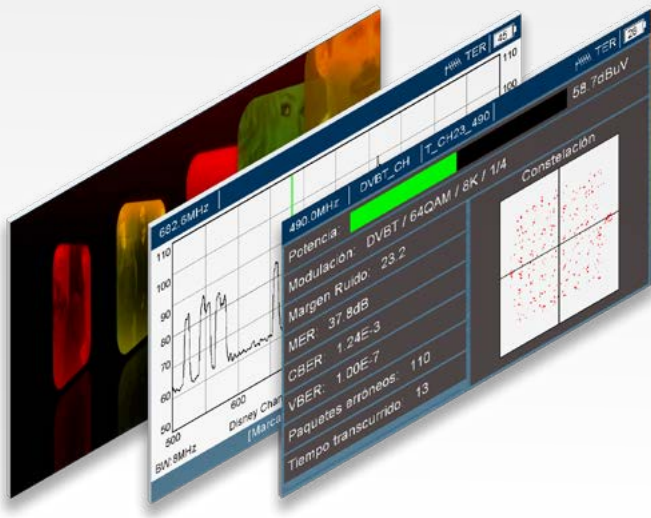
√ DVB-S/S2, DVB-T/T2, DVB-C Demodulation and analysis

√ High-resolution 7-inch TFT-LCD screen

√ High quality DSP Spectrum from 50-2200MHz with 50dB of onscreen dynamic range

√ Supports HEVC (H.265), MPEG4 (H.264) and MPEG2 decoding, SD & HD

√ Single F Male connector input featuring a fully automatic attenuator with channel power of up to 120dBμV in 5dB steps

√ Measures Channel power, Noise margin, MER, CBER, VBER, TS Errors and Constellation

√ RF power supply from 5 to 24V, in 1V steps

√ Supports Diseqc 2.0, SATCR and DCSS

√ Special spectrum modes (Max Hold, Spectrogram) for interference detection and LTE Measuring

√ Efficient and user friendly user interface

√ Full TS recording to external USB drive

√ Standard 6h battery life per charge

√ Supports automatic adjustment of screen brightness

√ Supports measurement + TV decoding, measurement + spectrum and measurement + constellation

√ Standby mode for instant power on

√ Multi-function wheel navigation

√ Screen capture to external USB drive with a dedicated button

√ SAT support, transponder update separately via USB or FTP (WiFi)

√ Firmware updates through USB or FTP (WiFi)

√ EAC3 Dolby DD + codec (exclusive METEK HDD)

√ Includes a second transport belt (exclusive METEK HDD)

√ USB memory for capture storage (exclusive METEK HDD)

01 TRIPLE BAND

Specific button for fast switching between the different DVB-T / T2, S / S2, C bands. Possibility to hide the cable band (DVB-C).
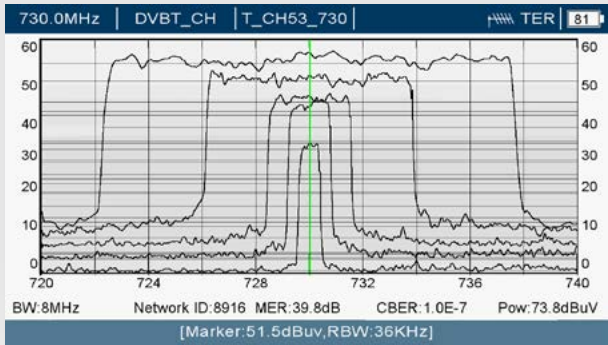
02 TRIPLE SCREEN

Fast switching between spectrum, measurements and image. By pressing the button of the desired mode, each functionality is quickly accessed. The dynamic navigation mode allows access to each channel as programmed.

03 MEASURES ON A SINGLE SCREEN

Quick access to all necessary measures with 7 "high-quality backlit TFT screen. Automatic adjustment of the intensity according to the ambient light.

538.0MHz	DVBT_CH	T_CH29_538		TER	27
Potencia:					65.9dBuV
Modulación: DVBT / 64QAM / 8K / 1/4					
Margen Ruido: 22.4				TV	
MER: 37.0dB					
CBER: 3.11E-3					
VBER: 1.00E-7					
Paquetes erróneos: 0					
Tiempo transcurrido: 6					

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730.0MHz | DVBT_CH | T_CH53_730 | ꜛꜛꜛ TER | 81
BW:8MHz   Network ID:8916   MER:39.8dB   CBER:1.0E-7   Pow:73.8dBuV
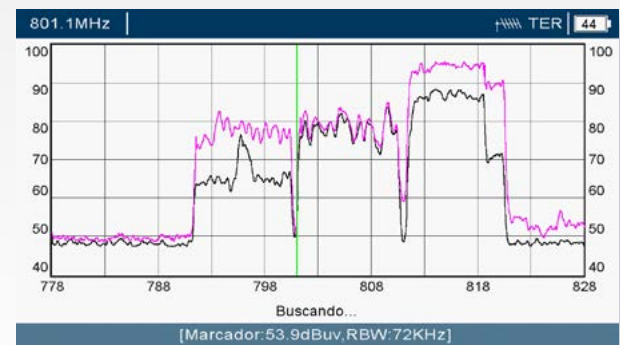[Marker:51.5dBuv,RBW:36KHz]

04

FAST AND PRECISE SPECTRUM

Self-adjusting resolution filters according to SPAN for a perfect balance between precision and measurement time. Spectrum of high resolution 1024 FFT.

05

POWER MEASUREMENT LTE AND LTE2

MAX Hold function to capture interfering signals from 4G and 5G mobile telephony. This function is present throughout the band to measure interference at any frequency.

Lte **Lte2**

801.1MHz | ꜛꜛꜛ TER | 44
Buscando...
[Marcador:53.9dBuv,RBW:72KHz]

06

HIGH PRECISION INPUT ATTENUATOR

Single RF input for all bands. High precision attenuator that can be ajusted manually or automatically up to 45dB.

07 HD VIDEO CODECS
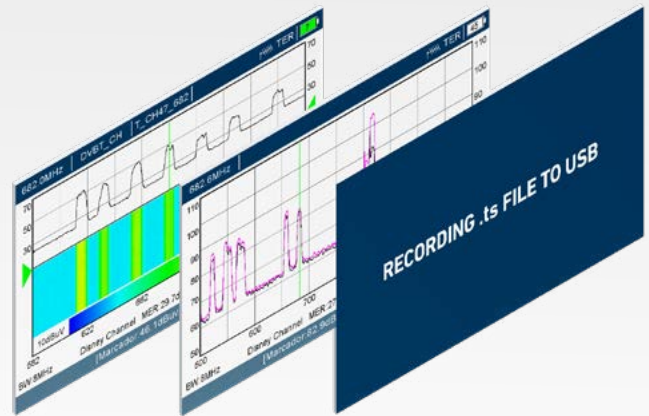
H.264 MPEG4

H.265 HEVC

Metek HD allows decoding of H.264 (MPEG4) and H.265 (HEVC) video. Audio MPEG-2 (L1 & L2), MPEG4 (AAC) codecs are also included.

08 ADDITIONAL PROFESSIONAL FUNCTIONS

Spectrogram, MAX hold, Satellite identification, WiFi, SatCR, DCSS, erroneous packets, Lte1 and Lte2 measurement, supplied voltage and current consumption measurement, screenshot, .ts recording, ...

RECORDING .ts FILE TO USB

09 QUICK NAVIGATION

BAND

Quick access to the functions of the meter and predefined groups in each band, for greater ease and speed of navigation. Exportable and editable groups. Creation of terrestrial, satellite or cable bands mixed groups.

10
AUTONOMY AND ENERGY SAVING

Lithium battery of high duration (~ 6h). Stand-by mode for faster starting speed and battery saving.
Light intensity photodetector for automatic adjustment of the screen illumination.

6h

11
ERGONOMICS AND PROTECTION

Lateral rubber cover for protection against impacts. Ergonomic function and belt support.

12
WIFI NETWORK

It allows to detect and connect to WiFi 2.4GHz networks, see the power of each network and make tests of the link to the network (PING).

PACKING CONTENT

1. POWER ADAPTER 15V - 2,5A

2. CABLE CHARGER FOR CAR

3. ADAPTER F FEMALE - IEC FEMALE

4. ADAPTER F FEMALE - F FEMALE

5. TRANSPORTATION BAG

METEK HDD

DOLBY
DIGITAL PLUS

TECHINCAL INFORMATION

Monitor Display	7-inch TFT
Dots Pixels	1024*600
The lithium battery	7.4 V 7800 mAh 57.7 Wh
RF Input	F Male connector,75 Ω
Video/Audio output	HDMI Output
External Units Power supply	
Satellite band	0 V, 5 ~ 24 V (Steps1 V)
22KHZ singal	Selectable in Satellite Band
Diseqc generator	Diseqc 1.0/1.1/2.0
Terrestrial Band	0 V, 5 ~ 24 V (Steps1 V)
Battery Operation Time	6 hours
Power off current	<2 mA
VEDIO DECODING	MPEG1, MPEG-2 MP@ML, H.264, VC1, DV, MPEG-4, H.265 (1080p@60fps)
AUDIO DECODING	MPEG-2 layer I and II (Musiccam), MPEG4 AAC, EAC3 Dolby DD + codec
OUTPUT MODE	Mono, Dual Channel, Stereo, Joint Stereo

METER NAVIGATION MODE

Satellite	
Frequency Range	950~2150 MHz
Support Measurement parameter	Channel power, Noise margin, MER, CBER, VBER, TS Errors, Constellation
Symbol rate	1 ~ 55 MS/s
Power resolution	0.1 dB
Power Accuracy	±1.8 dB
MER range	>25 dB
Power range	20~120 dBµV
Demodulation	DVB-S/S2 QPSK, 8PSK, 16APSK, 32APSK, ACM / VCM
Terrestrial	
Frequency Range	51 ~ 1000 MHz
Support Measurement parameter	Channel power, Noise margin, MER, CBER, VBER, TS Errors, Constellation
Symbol rate	6 MHz, 7 MHz, 8 MHz
Power resolution	0.1dB
Power Accuracy	±1.8 dB
MER range	>35 dB
Power range	30~120 dBµV
demodulation	DVB-T/T2 COFDM
Cable	
Frequency Range	51 MHz ~ 1000 MHz

Power resolution	0.1 dB
Power Accuracy	±1.8 dB
MER range	>35 dB
Power range	30~120 dBµV
Demodulation	DVB-C QAM,J83 Annex C QAM

SPECTRUM NAVIGATION MODE (DSP)

Frequency Range	Terrestrial&Cable: 50 ~ 1000 MHz
	Satellite: 900 ~ 2200 MHz
Reference Level	Terrestrial&Cable: 60 ~ 110 dBµV in 5 dB steps
	Satellite: 60 ~ 110 dBµV in 5dB steps
Accuracy	±1.8 dB
Span	Terrestrial&Cable: 10, 20, 50, 100, 200, 500, 950 MHz
	Satellite: 10, 20, 50, 100, 200, 500, 1200 MHz
RBW	Terrestrial&Cable: 36, 72, 145, 291, 583, 1166 KHz
	Satellite: 100 KHz, 200 KHz, 500 KHz, 1 MHz, 2 MHz, 5 MHz
FFT/Sample Size	1024 Points

INTERFACE

Left side interface	HDMI 1.4A	
	USB 2.0 (MAX 1 A)	
	RS232	
	DC IN (12 ~ 15 V)	
Top interface	TUNER	3 tuners in 1(DVB-S2,DVB-T2,DVB-C)
Buttons on panel	4 LED lights	On /Off, Charge, Lock, RF Power
	24 Buttons	(TV, Spectrum, Meter, Options, Menu, Band, Up, Down, Left, Right, Enter, Esc, 0-9 Power)
Housing (cabinet)	Dimensions	269 mm (L) x 187 mm (W) x 62.5 mm (H)
Accessories	Adapter	15 V-2,5 A
	Car charger	Yes
	Carrying bag	Included (space for tools and pocket)
	F female to female connector	Yes

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