



EKSELANS BY ITS

METEK

**PROFESSIONAL
FIELD METERS**

ENTER THE EK WORLD





DEVELOPED BY AND FOR PROFESSIONALS

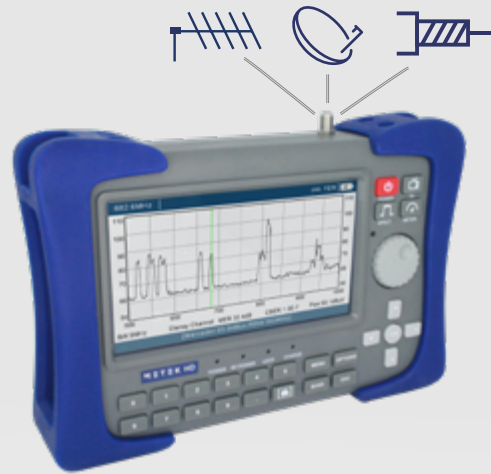
Ekselans by ITS introduces METEK product range, professional field meters. Designed and developed completely by our R&D team, are presented to the market as a complete, intuitive field meters that completely covers the current and future needs of telecommunication installers.

Access a professional field meter, with an unbeatable quality-price ratio and with the support and guarantee of EK.

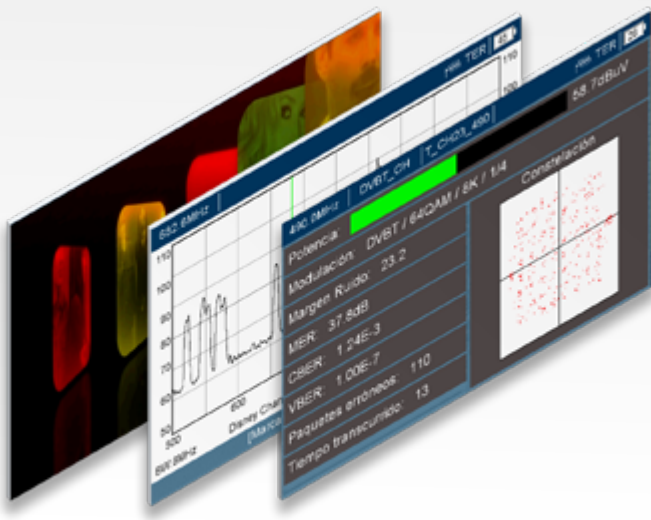
- ✓ DVB-S/S2, DVB-T/T2, DVB-C Demodulation and analysis
- ✓ High-resolution 7-inch TFT-LCD screen
- ✓ High quality DSP Spectrum from 50-2200MHz with 50dB of onscreen dynamic range
- ✓ Supports HEVC (H.265), MPEG4 (H.264) and MPEG2 decoding, SD & HD
- ✓ Single F Male connector input featuring a fully automatic attenuator with channel power of up to 120dB μ V 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
- ✓ Includes a second transport belt
- ✓ USB memory for capture storage

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

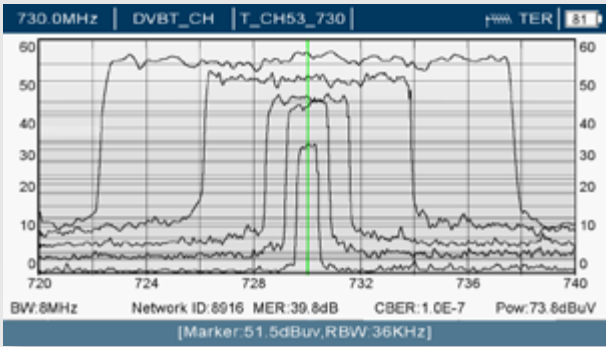


Fast switching between spectrum, measurements and image. By pressing the button of the desired mode, each functionality is quickly accessed. The dynamic navigation mode allows access to each channel as programmed.

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.





04

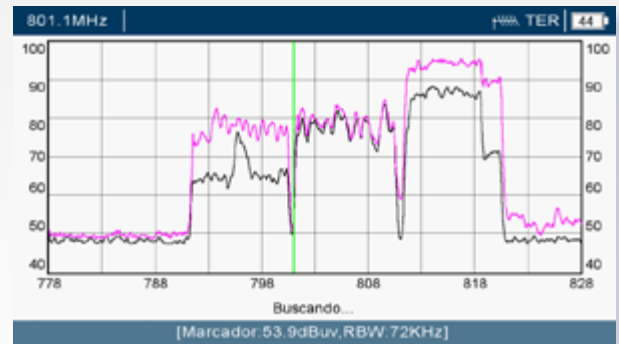
FAST AND PRECISE SPECTRUM

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.

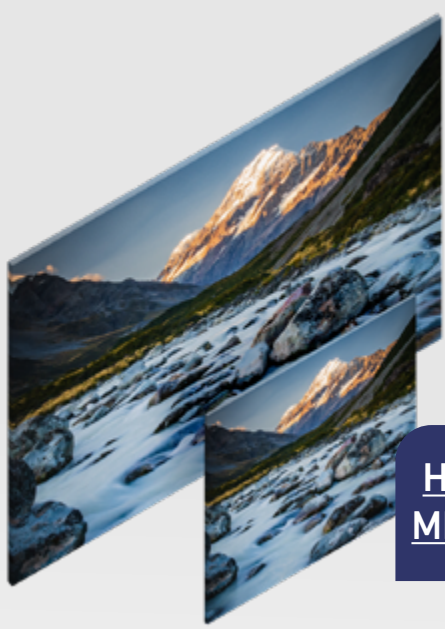


06

HIGH PRECISION INPUT ATTENUATOR

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





07 HD VIDEO CODECS

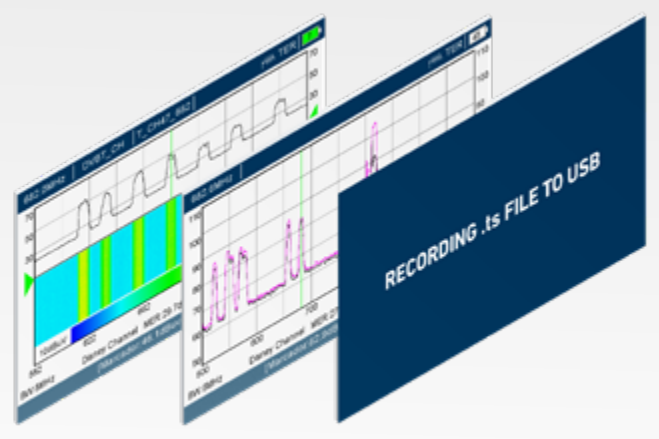
**H.264
MPEG4**

**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.

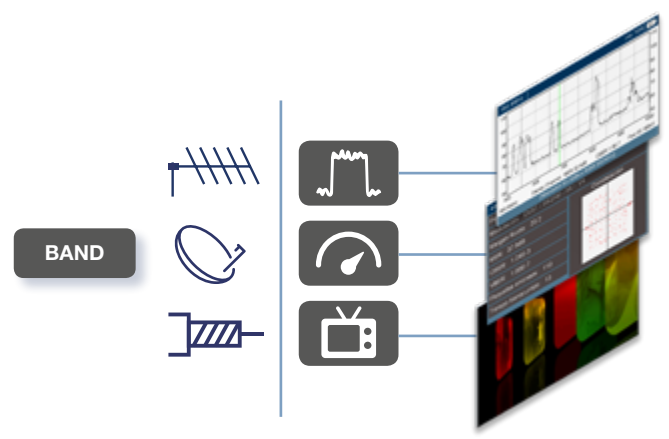
08

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, ...

09 QUICK NAVIGATION



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.



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

| 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 |
| 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 |

| | | |
|---------------------------------------|---|--|
| Support Measurement parameter | Power, CBER, VBER, MER, Constellation | |
| Symbol rate | 6 MS/s | |
| 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 |

| 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 |
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