

# PRE HD 高清电视/卫星频谱图像场强仪

## HIGH DEFINITION TV ANALYSER

**PROMAX** launches its new **TV EXPLORER HD**.

This new jewel of the **PROMAX** range will become a reference in the industry for being the very first meter of its kind to actually meet the requirements to be called a real HDTV instrument.



**HD**  
meter

✓ Link margin measurement

✓ MPEG-2 and H.264 video decoder

✓ MPEG-1/2 and AAC audio decoder

The typical high definition formats used in nowadays broadcast are 1080i (1920x1080 pixels) and 720p (1280x720 pixels). Most of the TV programmes using these video resolutions are being broadcasted compressed in MPEG-4. The **TV EXPLORER HD** is able to display those TV programmes thanks to its state of the art electronics.

HDTV content is expensive to produce and therefore it is usually protected by encryption. Once again the **TV EXPLORER HD** is setting new standards with its CAM interface that allows the encrypted high definition programmes to be displayed as well.

Millions of people in Europe are now served with digital TV broadcasting only. Analogue switch off is history for them. For these and those who still are in the migration process from analogue to digital, the use of digital TV distribution equipment will be more frequent every day.

This type of equipment, such as our **Digital To TV** system, manipulates digital signals and very often use TS-ASI (Transport Stream) as the standard interface. So having TS-ASI input and output becomes a fundamental feature in a TV Analyser if it really wants to be future proof.

Would it be possible to have all those features in a 2 kg meter?

- ✓ Video decoding: MPEG-2 and MPEG-4 H.264
- ✓ Audio decoding: MPEG-1, MPEG-2 and AAC
- ✓ Video formats: SD (standard definition) and HD (high definition)
- ✓ Video resolutions: 1080i, 720p and 576i
- ✓ Screen formats: 16:9 and 4:3
- ✓ HDMI interface
- ✓ DVB-T/H, DVB-C and DVB-S/S2
- ✓ CAM module (Conditional Access) for encrypted channels
- ✓ TS-ASI input and output

中文资料请参看: <http://www.universalam.com/gb/web/preHD.htm>

# PRE HD高清电视/卫星频谱图像场强仪

## HIGH DEFINITION TV ANALYSER

SPÉCIFICATIONS	TV EXPLORER <i>HD</i>
<b>GENERAL</b> Frequency margin Tuning modes Channel plan Resolution 5-1000 MHz 950-2150 MHz Automatic search ( <i>Explorer</i> ) Analogue and digital signal identification Transport Stream parameters identifying	Continuous tuning from 5 to 1000 MHz and from 950 to 2150 MHz Chanel or frequency (IF or downlink at satellite band) Configurable on demand  50 kHz < 200 kHz (span FULL-500-200-100-50-32-16 MHz) Threshold level selectable. DVB-T/H, DVB-C and DVB-S2 selection Automatic Detection of Audio and video bitrate, Network ID and Service list
<b>VIDEO</b> Digital modulations Resolutions Video formats Colour system TV standard Aspect ratio	DVB-T, DVB-H, DVB-S, DVB-S2, DVB-C 1080i, 720p, 576i MPEG-2, MPEG-4 H.264 PAL, NTSC, SECAM M, N, B, G, I, D, K and L 16:9, 4:3
<b>RF INPUT</b> Impedance Connector Maximum signal Maximum input voltage DC to 100 Hz  5 MHz to 2150 MHz	75 $\Omega$ Universal, with BNC or F adapter 130 dB $\mu$ V  50 V rms (powered by the AL-103 power charger) 30 V rms (not powered by the AL-103 power charger) 130 dB $\mu$ V
<b>DIGITAL MEASUREMENTS</b> DVB-T/H (COFDM) DVB-C (QAM) DVB-S (QPSK) DVB-S2 (QPSK/8PSK)	Numeric and level bar Power, CBER, VBER, MER, C/N and Noise margin Power, BER, MER, C/N and Noise margin Power, CBER, VBER, MER, C/N and Noise margin Link Margin, Power, CBER, LBER, MER, C/N and Noise margin
<b>ANALOGUE MEASUREMENTS</b> Terrestrial bands Satellite bands	Level, V/A ratio, C/N ratio and FM deviation and demodulation Level and C/N ratio
<b>ADVANCED FUNCTIONS</b>	Constellation diagram for DVB-T/H, DVB-C, DVB-S and DVB-S2 Echoes analyser mode Built-in spectrum analyser with direct access keys Datalogger (measurements automatic acquisition and storage) for digital and analogue channels SAT IF test (IF distribution network response for satellite band) Attenuation test function (signal distribution network response for terrestrial band) DiSEqC generator and LNB supply Audio and Video recording and playing
<b>CONNECTIONS</b>	SCART, HDMI, TS-ASI (input and output), USB, Common Interface
<b>MECHANICAL FEATURES</b> Dimensions Weight	230 (W.) x 161 (H.) x 76 (D.) mm. Total size: 2,814 cm <sup>3</sup> 2.2 kg (without holster)

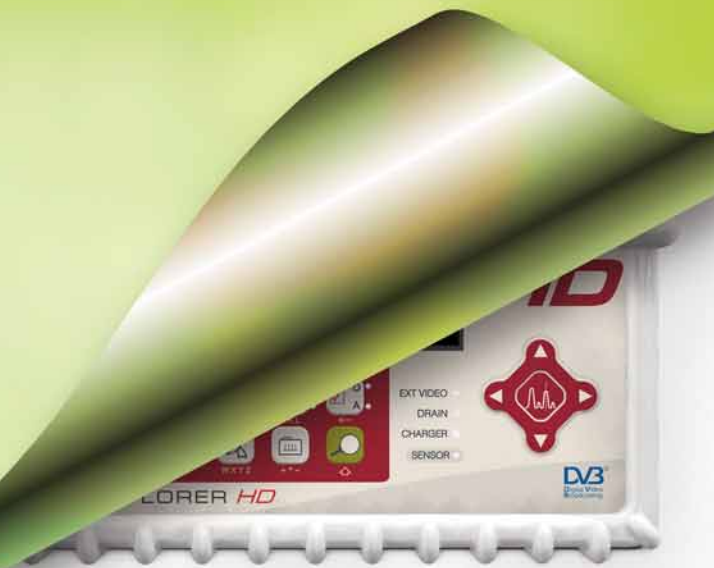
中文资料请参看：<http://www.universalam.com/gb/web/preHD.htm>

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# High Definition

See it for yourself



# PRE HD 高清电视/卫星频谱图像场强仪

## HIGH DEFINITION TV ANALYSER

The portable field strength meter for **HD**

### MPEG4 / H.264 Decoder

You can watch High Definition and Standard Definition programmes directly on the display whether compressed in MPEG 2 or MPEG 4 / H.264.



### HDMI Output Connection



The HDMI connection provides compatibility with HDTV equipment to assess the quality of a high definition picture. It is also very useful to carry out checks directly on the client's TV, which helps to identify incidences easily.

### TS-ASI (Input / Output)

TS-ASI connectivity makes it easy to monitor and analyse transport streams coming from other equipment or to transfer the received transport stream to other equipment

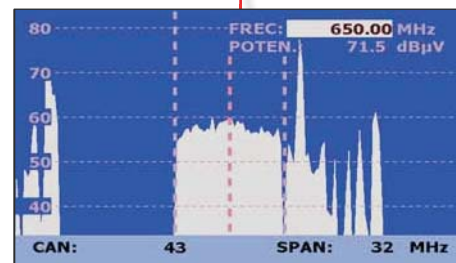
### Encrypted Services



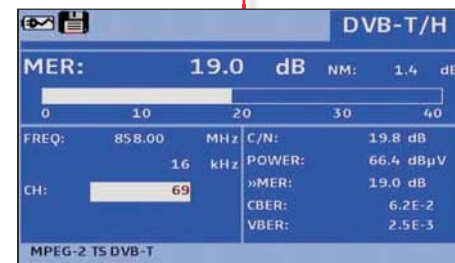
Decode and visualise encrypted channels through the CAM interface



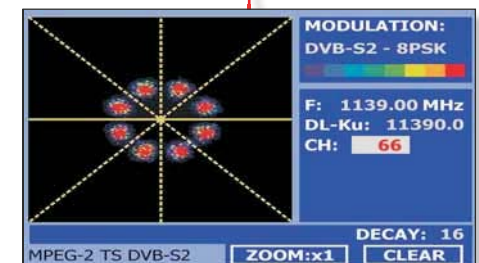
HDTV decoder and information



Spectrum analyser




Measurement screen



Constellation diagram



 **PROMAX**



**DVB**  
Digital Video  
Broadcasting

**HD**

**MPEG-4**  
HDTV

**ASI-TS**  
In&Out

**LINK**  
MARGIN

**HD**

1 	2 	3 	4 	5 	
6 	7 <b>ABC</b>	8 <b>DEF</b>	9 <b>GHI</b>	0 <b>JKL</b>	
<b>MNO</b>	<b>DiSEqC</b>				
<b>PQRS</b>	<b>TUV</b>	<b>WXYZ</b>	<b>+*-</b>		

- EXT VIDEO ●
- DRAIN ●
- CHARGER ●
- SENSOR ●



**TV EXPLORER HD**

**DVB**  
Digital Video  
Broadcasting

ACTUAL SIZE

# PRE HD 高清电视/卫星频谱图像场强仪

## HIGH DEFINITION TV ANALYSER

	TV EXPLORER <b>HD</b>	TV EXPLORER <b>II+</b>	TV EXPLORER <b>II</b>	TV EXPLORER
LCD size and aspect ratio	6.5" (16:9)	6.5" (16:9)	6.5" (16:9)	5.5" (4:3)
Transflective LCD screen	✓	✓	✓	
DVB-T Terrestrial	✓	✓	✓	✓
DVB-S Satellite	✓	✓	✓	✓
DVB-S2 Satellite HD	✓	✓	✓	
DVB-C Cable	✓	✓	✓	✓
DVB-H mobile TV	✓	✓	✓	
Analogue TV	✓	✓	✓	✓
Constellation Diagram	✓	✓	✓	
MER by carrier measurement	✓	✓		
Merogram and Spectrogram	✓	✓		
AUTO ID (auto identification) and EXPLORER (band scanning)	✓	✓	✓	✓
Spectrum analyser	5 or 10 dB/DIV	5 or 10 dB/DIV	5 or 10 dB/DIV	10 dB/DIV
Automatic reference level in Spectrum Analyzer mode	✓	✓	✓	
Reports & Automatic Internet updates	✓	✓	✓	✓
Echoes detection	✓	✓	✓	
Satellite IF test	✓	✓	✓	✓
Cable TV: Return path (5 MHz)	✓	✓	✓	
Cable TV: 1 GHz	✓	✓		
Encrypted channels (common interface)	✓	✓		
Video stream recorder and player	✓	✓		
Spectrum / Constellation / Measurements screen capture	✓	✓		
MPEG-4 decoder H.264	✓			
Input/Output ASI-TS connection	✓			
HDMI Output connection	✓			
NetUpdate 3 software	free	free	free	free
Transport case	included	included	included	optional

