

## Hand Held Live Stream Monitoring Tablet

Realtime HEVC, H.264, MPEG-2 analysis of streaming services over IP, ASI\*, RF\* HD-SDI\* and OTT\*.



The new Hamlet Enterprise VX2 portable tablet stream analyser with 2<sup>nd</sup> generation firmware has been designed to provide real time analysis of streaming IP and ASI based services encoded as HEVC, MPEG-2, H.264 (MPEG-4 part 10) and many other compression formats. In comparison to the original Enterprise VX1 it is both smaller and lighter.

A new HD-SDI\* option will allow baseband video data to be monitored. The RF option\* allows for DVB-S and DVB-S2 signals to be monitored for:- Lock status, Modulation Type, RF Level, MER, and BER and with the addition of the optional spectrum analyser upgrade\*, the Enterprise becomes a full function video monitoring product.

With its high resolution screen, intuitive graphical user touch screen interface it allows dynamic configuration of definable presets by the user.

Enterprise allows the broadcaster to monitor the various streams as the broadcast landscape continues to shift into an era of streaming to all devices. The need for consolidated monitoring and analysis becomes more of necessity to any professional operation.

Internet streaming traffic will quadruple within the next two years. As broadcasters and service operators broaden the reach of their digital service to multiple mobile platforms over multiple streaming standards and OTT, the Hamlet Enterprise provides a single compliance tablet that ensures these services can be successfully decoded by consumers.

The processing engine of the Hamlet Enterprise supports a wide range of streaming protocols and adaptive bitrate monitoring tools necessary to ensure service compliance, including agile recording of impaired streams for real-time service validation and playback of recordings to prove service faults.

### Features and Functions

- Analysis of live service IP / ASI/ RF / HD-SDI/ OTT transmission paths\*
- High Resolution integrated video/audio decoder.
- Dual IP interfaces.
- ASI input and Output option\*
- DVB-S/S2 RF Input option\*
- Spectrum Analyser option\*
- OTT analysis option\*
- HD-SDI data analysis option\*
- Detailed statistics on all PIDS, services and table information.
- Quality of Service (QoS) compliancy per TR 101290.
- Bitrate view including trending and graphing.
- Real time record & playback of captured streams.
- Full 1080p display.
- Touch screen.
- HLS, Flash, Silverlight, RTSP and RTP.
- Adaptive Bitrate (ABR) & Profile interrogator.
- Reporting of timeouts, bandwidth violations and HTTP errors.
- Up to 2Hrs battery life.

\* **Factory fitted option**

See our website for applications

[www.hamlet.co.uk](http://www.hamlet.co.uk)

## TECHNICAL SPECIFICATION

### GENERAL

Storage: SSD Internal 64GB / optional expandable to 128GB.  
Viewing Size: 10.8" / 16:9.  
Resolution: True 1080P/60 1920x1080  
Wifi: 802.11b/g/n

### ETHERNET INPUT

Connector Dual RJ-45 for primary and backup link monitoring  
Physical Layer: 1EEE 802.3ab  
Data Rate: 10/100/1000  
Protocols: UDP/RTP/IGMP/MDI/SPTS/MPTS/SNMP

### ASI INPUT/OUTPUT (optional)

Connector: 75Ω BNC  
Bit Rate Range: 0 - 214 Mb/s  
Packet Size: 188 or 204 Byte Sequence  
Output: ASI On model ASIO only

### DVB-S/S2 RF INPUT (optional)

Monitored: Lock status, Modulation Type, RF Level, MER, BER  
Connector: 75Ω BNC  
Frequency: 925~2175 MHz  
Input level: -35dBm to -81dBm (per tuned carrier)  
Symbol Rate: 0.2-45Msps  
Modulation Types:  
DVB-S2  
CCM, ACM, VCM  
QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10  
8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10  
16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10  
32APSK: 3/4, 4/5, 5/6, 8/9, 9/10  
DVB-S  
QPSK+1/2, 2/3, 3/4, 5/6, 7/8

### Spectrum Analyser (optional) - TBC

Frequency: ~50-2500 MHz  
Bandwidth/Span: <-50 MHz  
Sensitivity: > -100 dBm

### OTT (optional) - TBC

Formats: HLS, HDS, LSS, RTMP, MPEG-DASH  
Input: GigE Ethernet  
WiFi future release  
Codec Support: Full decode of any stream from the profile.  
Video: H.264 (up to HP 4.2), HEVC up to HP 4.0 future release  
Audio: MP3, AAC, HE-AAC.

### HD-SDI (optional) - TBC

Connector: 75Ω BNC  
Formats: SMPTE 259M serial digital at 800mV p/p. SMPTE 292M high definition serial digital at 800mV p/p.

### TEMPERATURE

**Operating:** +5 to +40° C  
**Non Operating:** -20 to +60° C

### POWER

**Built-In:** 11.1v/4600mA Battery  
**Endurance:** Up to 2Hrs  
**Adapter:** DC 19V/2.1A

### PHYSICAL

**DIMENSIONS:** - 11.6"w x 8.4"h x 1.2"d  
**WEIGHT:**- 4.8lbs/2.1Kg

**WARRANTY:** - 1 Year.

### ORDERING INFORMATION

Hamlet Enterprise VX2  
Live Stream Monitoring Tablet

<b>Enterprise</b>	
<b>ENT-201</b>	IP MPEG Stream Analyser
<b>ENT-202</b>	IP and ASI MPEG Stream Analyser "all in package"
<b>ENT-203</b>	IP, ASI MPEG Stream Analyser and Playout "all in package"
<b>Software options</b>	
<b>ENT-S201</b>	tba
<b>ENT-S202</b>	OTT Analyzer Software
<b>ENT-S203</b>	Record & Playback Software
<b>Hardware options</b>	
<b>ENT-H201</b>	ASI input option card <b>- factory installed</b>
<b>ENT-H202</b>	DVB RF input option for card <b>- factory installed</b>
<b>ENT-H203</b>	ATSC RF input option for card <b>- factory installed</b>
<b>ENT-H204</b>	RF Spectrum Analyser board <b>- factory installed</b>
<b>ENT-H205</b>	HD-SDI Analyser board <b>- factory installed</b>
<b>Accessories</b>	
<b>ENT-A201</b>	Ruggedized Hard Case
<b>ENT-A202</b>	Expansion by 64Gb
<b>ENT-A203</b>	Spare Power Supply
<b>ENT-A204</b>	Rack Mount Rail

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Hamlet products are Manufactured to ISO9001.2000 and ISO14001 specification.

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