# Uniguest HD Encoder (785).

## Robust solid-state standalone encoder with MPEG2/H264 and HLS capability.

### Key Features

- Low power consumption with PoE
- Composite, Component, 2 x HDMI & SDI inputs
- Tough, compact, and robust with no moving parts
- Auto input detection with programmable switching capability
- High visibility OLED display and touch controls
- IP to RS232 pass through comms link

The versatile Uniguest 785 HD Encoder allows a video and audio signal to be streamed to an unlimited number of users across an IP network in real time and to be viewed on screens, PCs, tablets, and smartphones.

The encoder is standalone and has a wide variety of industry standard analog and digital video and audio inputs. It can be setup to use a specific video input or to automatically scan inputs and stream the first video signal it detects. Alternatively, under the control of a third party device, it can act as an AV switch between multiple input sources that need to be streamed to the network.

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| **What's in the box?** | • 785 Encoder unit<br>• RJ45 patch lead (2m)<br>• HDMI to HDMI lead (1m)<br>• RBG to RBG triple phono plug lead (1.5m)<br>• 3.5mm stereo jack to 2 x phono plug lead (1.8m)<br>• USB A to B lead (2m)<br>• RS232 male to RS232 female lead (1.0m)<br>• 4 self-adhesive domed feet<br>• DC power adaptor (non PoE versions only) |
| **Video Inputs** | **CVBS** - PAL, NTSC<br>**S-Video** - PAL, NTSC (via phono connectors)<br>**Component RGB (SCART)** – 480i, 576i<br>**Component YPbPr, Component RGB** (Sync-on-Green) – 480i, 480p60, 576i, 576p50, 720p50/60, 1080i50/60, 1080p50/60 (streamed as 1080p25/30 **HDMI 1.4** - 480i, 480p60, 576i, 576p50, 720p 50/60, 1080i50/60, 1080p50/60 (streamed as 1080p25/30). **SDI** - With loop through and adaptive cable equalizer - 480i, 576i SMPTE 259M-C, 1080i50/60, 720p50/60 SMPTE 292M. 1080P50/60 SMPTE 424M (3G-SDI, streamed as 1080p25/30 **De-Interlacing** - 480i and 576i inputs can be de-interlaced to 480p30 and 576p25 output streams.<br>An SD resolution internally generated color bar stream is also available. All video inputs are streamed out with the same video resolution unless otherwise specified. |
| **Audio** | • **HDMI** – PCM digital stereo audio 32, 44, 48 kHz sampling.<br>• **SDI** - PCM digital stereo audio, 48KHz sampling.<br>• **Analogue** – 2.2V pk-pk into 10K Ohms (via 3.5mm jack) 48KHz sampling. |
| **Video Encoding** | • MPEG 4-10/H.264 MP@L4, CBR/VBR encoding, 1.5 Mbps to 12 Mbps<br>• MPEG-2 MP@ HL, CBR/VBR encoding, 1.5 Mbps to 15 Mbps |
| **Audio Encoding** | • MPEG-1 Layer 2 encoding - 64 - 384 Kbps Stereo<br>• AAC LC encoding - 40 - 576 Kbps Stereo |
| **Output Streams** | • Multicast/Unicast UDP MPEG2-TS<br>• Multicast RTP video and audio streams (for use with Quicktime via on-board RTSP server) |

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The 785 is powered from an AC mains to DC plug-in power supply or via 802.3af Power-over-Ethernet (PoE). There are no moving parts within the encoder, and it can operate reliably in all dry environments from 0-40°C (32-104°F).

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| **Network Configurations** | • RJ45 802.3 10/100 Base-T Auto MDIX<br>• Optional 802.3af Power over Ethernet (Class 3)<br>• Static or DHCP IP Address<br>• DSCP stream tagging for QoS |
| **Network Protocols** | • UDP, TCP, ARP, DHCP, ICMP, IGMP V3, HTTP, Telnet, SNMP, SAP/SDP, SMTP, DSCP.<br>• USB Comms:- USB 2 type A host port for software upgrades, USB 1.1 type B port for Serial Comms for external configuration and/or control. |
| **RS232 Port** | • Rx, Tx, CTS, RTS up to 115,200 Baud, Configured for SIPI external configuration/ control OR IP to RS232 bi-directional pass through for external device control.<br>• Device connected status monitoring |
| **Unit Configuration** | • Configuration via on-board display and buttons or via encoder hosted web pages to a PC/ Laptop/Tablet |
| **Unit Monitoring** | • SNMP traps for significant events such a loss of video input or changes in configuration.<br>• On-board Event log with web page download and remote emailing capability.<br>• On-board temperature sensor with over temperature SNMP trap.<br>• RS232 device connected status.<br>• PoE in use status.<br>• Front panel LED indicators and on-board display. |
| **Control interfaces** | • SIPI textual based control commands sent from 3rd party control systems to the Encoder via Rs232, USM comms or IP interface. |
| **Software Upgrade** | • Fully software upgradeable in the field, from digitally signed files only. Upgrade via USB key in USB host port, or from a remote HTTP server.<br>• Product features are upgradable via unit-specific enablement codes. |
| **Power** | • 7 Watts, +5V DC, 2A via an external mains/DC power adapter<br>• 802.3af Power over Ethernet (PoE) PD class 3 |
| **Physical** | **Dimensions:** 215 x 133 x 35 mm<br>**Weight:** 500g<br>**Operating Temperature:** 0 - 40ºC on condensing, indoor use only |
| **Approvals** | • FCC, CE class A device<br>• TUV safety certification with CB extensions for USA, Canada Australia and others. |

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