MediaStar 4K UHD IPTV and Media Player (Models 782-SL-POE & 782-DS)

The 782-SL is a powerful and ultra-reliable solid-state media player, a full 4K multi-zone digital signage platform and a networked ‘Live’ stream IPTV decoder. With PoE, HTML5 rendering and on-board memory plus HDCP secure and Signage model options, it is ideal for any deployment.

**Key Features**

- Decodes HEVC, H.264, HLS and MPEG2
- Renders HTML5, HTML5 video tags, JPEGs, PNG, GIFs
- SD, HD and UHD multizone screen formats
- Zones can contain Video, RSS text, tickers & clocks
- DVB TeleText/CC subtitles in Multi-language
- Supports Dolby Audio® technology
- Supports 3rd Party HTML applications such as APPSPACE
- HDCP content protection option
- AES128 / Pro-Idiom decryption capability
- CEC & RS-232 screen control, IR blaster functionality
- IP to RS-232 pass through, external contact closures (6)

**Models**

- 782-SL-16
- 782-SL-16-POE
- 782-SL-32
- 782-SL-32-POE

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MediaStar Digital Media Players are the professional solution for your entire IPTV, Digital Signage and Digital Media delivery requirements.

The 782-SL can decode H.265, H.264, HLS and MPEG-2 network streams and play locally stored video files from onboard memory, so that a combination of live streamed network video/audio and file-based media can be displayed.

The unit supports many video formats that can be presented at full screen or scaled to size. For example, a 4K HEVC or H.264 video can be played out, or multiple 1080p videos can be simultaneously displayed.

Video can be stored and accessed locally from flash, a remote RTSP video server or played from ‘Live’ IP multicast network streams.

Using hardware accelerated HTML5 rendering in a full 4K UHD screen configuration, a displayed page can simultaneously show diverse forms of media within a mosaic of different dynamic zones. Each of these can contain video playout, RSS text feeds, smooth scrolling tickers, clocks and graphics widgets as well as HTML web pages with video tags, centralized cookie updating and managed login support.
The unit can also decode AES or Pro Idiom encrypted media and offers optional HDCP Pro capability enabling the 782-SL to play HDCP protected media assets held within the MediaStar ecosystem, offering link security to valuable and confidential content. For further information see the MediaStar guide to HDCP.

The 782 SL also has a front panel HDMI video and Line/Mic audio input, enabling local inputs to be displayed at full screen or within a selected zone as part of a composite image. This functionality can be used for creating multi-zone signage streams, lecture capture or for broadcasting live presentations.

A comprehensive I/O package includes RS232, HDMI-CEC, Infra-Red and USB connectivity. This enables local operations such as display control, programmable contact closures, keyboard and mouse interaction, IP command pass through for 3rd party device control and external alarm audio mute. In addition, there is an IR Blaster function. The unit will also email proof of play reports and send SNMP traps if required.

782-SL models can operate networked under the control of the MediaStar Media Manager software suite (Model 462) enabling a system administrator to configure an extensive range of time based and user selected media playout controls.

Additionally, the 782-SL-DS can be programmed with MediaStar Creator (Model 478) a fully featured content creation program for MediaStar system users to easily design, compile and aggregate their own original branded signage content for display on any number of screens and display points around an organisation or campus.

The 782-SL is designed and built in the United Kingdom. With its compact size, low power consumption, maintenance free operation and software future proofing it is ideally suited for both large scale distributed applications and simple single screen deployments. Please see model options above.

### Specifications

<table>
<thead>
<tr>
<th>What's in the box</th>
<th>782 Media player unit</th>
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<tbody>
<tr>
<td></td>
<td>HDMI cable (1.0M)</td>
</tr>
<tr>
<td></td>
<td>DC Power adaptor (With non PoE versions only)</td>
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<table>
<thead>
<tr>
<th>COMMUNICATIONS AND CONTROL</th>
<th>Network</th>
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<tbody>
<tr>
<td></td>
<td>Ethernet 10/100/1000 Base T Auto MDIX.</td>
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<tr>
<td></td>
<td>RJ-45 802.3 jack with integrated LEDs</td>
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<td></td>
<td>UDP, TCP, ARP, DHCP, ICMP, IGMP V2/V2, HTTP, HTTPS, SNMP, SNTP, NTP, RTSP.</td>
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<tr>
<td></td>
<td>Static or DHCP IP Address</td>
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| Mode of Operation | Administered and controlled by MediaStar Media Manager Software (model 462). |

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<thead>
<tr>
<th>IP Setup and Control</th>
<th>Full configuration via on-board browser with remote status monitoring information</th>
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<tbody>
<tr>
<td></td>
<td>Initial IP address configuration via DHCP or local IR remote control</td>
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<td></td>
<td>IP/RS232 control protocol to operate with 3rd party touch panel controllers</td>
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<tr>
<th>IR Control</th>
<th>Integrated 38KHz modulated IR receiver module.</th>
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<td></td>
<td>Optional external remote IR receiver (model 911-4154)</td>
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<td></td>
<td>Channel, volume and setup control via MediaStar Remote Control Unit (model 713-IR).</td>
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<tr>
<td></td>
<td>IR Pass Back - IR signals can be routed back via the IP network to IR controlled devices at the headend.</td>
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</table>

| RS-232 | Rx, Tx, CTS, RTS up to 115,200 Baud Configured for SIPI external configuration/control or IP to RS-232 bidirectional pass through for external device control. |
### Software Updates and Security
- Fully upgradable ONLY with protected MediaStar software from MediaStar Media Manager HTTP server or by front panel USB Key.
- **782 Unit**: Fully and securely upgradable ONLY with protected MediaStar software via MediaStar Media Manager HTTP server or by local USB Key.
- **HDCP**: Input to 782 unit HDCP 2.2 Pro. Output from 782 unit to display HDACP.
- **AES**: Optional AES 128 decryption capability.
- **Pro Idiom**: Optional decryption capability.

### VIDEO
**Decoding**
- MPEG2, H.264, H.265 files and UDP MPEG2-TS and HLS streams.
- HEVC (Covered by Patents listed at patentlist.hevcadvance.com)

**Input (Local)**
- HDMI 1.4b
- SD 480i, 480p, 576i, 576p
- HD 720p (50/60), 1080i (50/60), 1080p (50/60)

**Output**
- HDMI 1.4b
- SD 480i, 480p, 576i, 576p
- HD 720p (50/60), 1080i (50/60), 1080p (50/60)
- UHD 2160p (25/30)
- CEC Support for display screen control
- HDCP compatibility

### AUDIO
**Decoding**
- MPEG-1/2 audio layers I, II
- HE-AAC LC
- Dolby Digital

**Input (Local)**
- HDMI – PCM Digital stereo audio
- 3.5mm 4 pole Jack - Analogue stereo audio, selectable microphone or line input
- Line input - 2.2V pk-pk into 10k Ohms

**Output**
- HDMI - PCM Digital multichannel or stereo audio
- 3.5mm 4 pole Jack, Unembedded analogue stereo audio

### OTHER CONNECTIONS
**USB**
- 1 x USB2 port, 1 x USB3 port
- For secure software updates and local configuration.
- Supports keyboard/mouse, touchscreen and other peripherals for interaction with the unit. HID compatible

**Alarm Input**
- 3.5mm 4 pole jack socket, 2 x Contacts (Normally open or normally closed - user selectable)
- Type 9 connector, 4 x Contacts (Normally open or normally closed - user selectable)

### OTHER INFORMATION
**Dimensions**
- 18.0cm x 12.4 cm x 2.8cm / 7 1/4" x 4 7/8" x 1 1/8"

**Weight**
- 0.42Kg/0.9lb

**Operating Temperature**
- 0 - 40°C; 32 - 104°F

**Operating Platform**
- Linux 3.10 Kernel

**On-board Browser**
- Enhanced Chromium
Power Supply
- AC mains adaptor: LPS 100-240VAC, 47-63Hz Output: +5VDC (+/- 5%), 3.0 Amps, with a DC jack plug (centre + voltage, 5.5/2.1mm diameter)
- Power over Ethernet (PoE models only) (PoE models only) 802.3af class 0 device, 802.3at class 4 device

Power Dissipation
- 12W max

Approvals
- FCC, CE, UKCA, RCM, TUV, CB and UL approved
- Dolby Audio and the double-D symbol are registered trademarks of Dolby laboratories
- HEVC is covered by one or more claims of the patents listed at patentlist.hevcadvance.com

Related Products
- MediaStar Accessories: IR Handset (713-IR), IR Receiver (91f-4154) and IR Blaster Module (91f-4153)