### Specifications

**Communications and Control**

- **Network**
  - Ethernet 10/100/1000 Base-T, Auto MDIX, RJ-45 modular jack with integrated LEDs.

#### Mode of Operation

- Standalone or in conjunction with the MediaStar Evolution Administration Software.

#### IP Setup and Control

- Configuration via On-Board Browser / Remote status monitoring information.
- ASCII Command/configuration via IP interface, USB comms and RS232 comms interfaces to operate with 3rd party Touch Panel Controllers.

#### Video Encoding

- MPEG 4-10/H.264 MP@L4, CBR/VBR encoding, supported bit rates 1.5 Mbps to 12 Mbps.
- MPEG-2 MP@HL, CBR/VBR encoding, supported bit rates 1.5 Mbps to 15 Mbps.
- Multicast/Unicast UDP MPEG2-TS.
- Multicast/RTP video and audio streams (for use with Quicktime via on-board RTSP server).

#### IR Control

- 2 x IR Blaster functions to provide input source device control via IP network.
- RS232:
  - Serial port, up to 115200 baud configured for SPI external configuration/control or IP to RS232 bi-directional pass through for external device control.
  - 2 x RS232 ports on 779-D-xx units.

#### Software Updates

- Latest software and SD to HD upgrades can be loaded either through an IP connection to an HTTP server or by inserting a USB key.

#### Audio Inputs

- Analogue stereo audio, 2.2V pk-pk into 10k Ohm, - 3.5mm jack.

#### Power

- Multi-rack from MediaStar 770 Rack.
- Power Dissipation: 18 Watts.
- Weight: 778-S xx 0.5 Kg, 778-D xx 0.7Kg.
- Dimensions: 778-S: H129 x W41 x D220mm, 778-D-xx 0.7Kg, 778-S xx 0.5 Kg.
- Dimensions: 1600x1200@60, 1920x1080@60, 1920x1200@60 (RB).

#### Video Inputs

- HDMI 1.3 Digital: All VGA (SOG) and YPbPr resolutions listed.
- YPbPr: 480i, 576i, 480p, 576p, 720p50, 720p60, 1080i50, 1080i60, 1280x800@60, 1280x1024@60, 1366x768@60, 1440x900@60, 1600x1200@60, 1680x1050@60, 1920x1080@60, 1920x1200@60 (RB).
- CVBS, S-Video: PAL/NTSC.

#### Audio Inputs

- HDMI digital stereo audio.
- Analogue stereo audio, 2.2V pk-pk into 10k Ohm, - 3.5mm jack.

### IP Television Headend

#### Multi Format Input SD-HD MPEG Encoder (778)

- **Models:** 778-S-SD, 778-S-HD, 778-D-SD, 778-D-HD
- **Video Encodings:**
  - Multicast/RTP video and audio streams.
  - Multicast/Unicast UDP MPEG2-TS.
  - MPEG-2 MP@ HL, CBR/VBR encoding.
  - MPEG 4-10/H.264 MP@L4, CBR/VBR encoding.

#### Cabletime SW Evolution

- The MediaStar Evolution 778 range of MPEG Encoders are a powerful and ultra reliable, solid state “out of the box” solution for your entire IP Television, Digital Signage and Digital Media encoding and distribution requirements.

#### Configuration Via On-Board Browser / Browser Configuration Pages

- It will also send SNMP traps if required.
- The MediaStar Evolution Administration software allowing click through to its front panel controls and LCD status display or networked under the control of A 778 can operate reliably on its own with configuration and stream setup from a screen or picture on picture operation on the same display.

#### Models: 778-D (Dual multi format input sets)

- Offers further encoding options.
- Its unique multi format input circuitry allows users to input content in a wide variety of video and PC formats, HDMI; YPbPr; S-Video and CVBS as well as RGBHV. In addition the 778 has an onboard scaling engine, providing the ability to encode SD TV inputs to HD resolutions.

#### Model 778-D (Dual multi format input sets)

- Offers further encoding options in a single unit. It can encode two independent two into two independent SD streams or can be configured to combine both inputs in to a single HD stream at up to 1080i or p resolution. This allows for independent split screen or picture on picture operation on the same display.

#### A 778 can operate reliably on its own with configuration and stream setup from front panel controls and LCD status display or networked under the control of the MediaStar Evolution Administration software allowing click through to its browser configuration pages. It will also send SNMP traps if required.

### Head Office

- Cabletime Ltd, 64 Greenham Road, Newbury, Berkshire, United Kingdom RG14 7HX
- T: +44 1635 35111 E: sales@cabletime.com www.cabletime.com

### USA Office

- Cabletime USA T: 973 770 8071 E: usa@cabletime.com

### Asia Office

- Cabletime ASIA T: +852 3101 2650 E: asia@cabletime.com

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**Included within the scope of delivery:**

- 778 Encoder Blade, Quick Start Guide, RJ45 Cat-5 patch cable, 1.5m HDMI cable, 1.5m YPbPr component video cable, 2m S VGA cable (15 way HD D plugs), 1m 3.5mm jack 2 x Phono (audio) cable; IR Blaster assembly (Part 911-4153).

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**Physical Size and Low Power Consumption**

- Dimensions: 778-S: H129 x W41 x D220mm, 778-D-xx 0.7Kg, 778-S xx 0.5 Kg.
- Weight: 18 Watts.
- Power Dissipation: 18 Watts.
- Dimensions: 778-D: H129 x W81 x D220mm.
- Dimensions: 1600x1200@60, 1920x1080@60, 1920x1200@60 (RB).

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**Companion Models & Accessories:**

- 761 Desktop Viewing Application, 762 Evolution Administrator Software, 770 Rack Chassis and Mount Kit, 778 SD to HD Upgrade, 779 SD/HD Encoder Unit, 780 Digital Media Decoder, 911-4153 IR Blaster assembly.

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**Approvals:**

- FCC Part 15, CE, CB.

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**Environmental:**

- 0 - 40ºC; 32 - 104ºF.