**MediaStar Pro Video Hub 500**

**Models:** 500/SL - Single RF Trunk Input  
500/DL - Dual RF Trunk Input

The MediaStar Pro 500 series video hub delivers up to 200 channels of AV/TV to multiple users over a Cat-5/UTP cabled infrastructure.

The hubs are available in two versions; Part 500/SL for use with 560 SPTL or 560 SNTL Quad Cards (supporting 90 PAL or 100 NTSC modulated TV channels) and Part 500/DL for use with 560 DPTL or 560 DNTL Quad Cards (supporting 180 PAL or 200 NTSC modulated TV channels).

A single hub can house up to 16 Outlet Cards which in turn support service to 64 individual receiver units or viewing stations. Multiple hubs can be co-located or geographically dispersed to service 1000s of users.

Each hub is a 7U rack mountable unit with 16 card slots, an LED hub status indicator card, an internal PSU, control electronics, RF input(s) and control interfaces. It also hosts a second PSU providing line power to the MediaStar receiver units connected at the viewing locations.

The 560 Quad cards are ‘hot swappable’ and have four independent front panel outputs (RJ45 sockets) to allow interconnection with the MediaStar Receiver Units at distances of up to 800 m (2,600 ft) across the Cat-5/UTP cabling infrastructure.

**Specifications**

- **Video Standards**
  - Supported PAL or NTSC
- **Quad Card Output**
  - Four x RJ 45 Sockets
  - CAT-5 Drive distance to 800m/2600ft
  - Baseband Video with Audio 1V P-P balanced into 100Ω
  - 28Vdc Line Power to Receiver Units
- **RF Trunk Input Format**
  - Modulated RF, 47 to 862 MHz
- **RF Trunk Input Connector**
  - Type F Female 75Ω
- **RF Trunk Input levels**
  - 500/SL PAL 34-36 dBmV
  - NTSC 36-38 dBmV
  - 500/DL PAL 36-38 dBmV
  - NTSC 40-42 dBmV

- **Hub to Pro Controller Protocol**
  - Proprietary, RS232 / RS485
- **Hub to Pro Controller Data Rate**
  - User Definable 9.7-57.6 kB/s
- **Hub data connector types**
  - RS232 9 Pin D type Female
  - RS485 2x RJ45 Female
- **Hub to Pro Controller Link Length**
  - RS232 10m max
  - RS485 1,200m max
- **Power**
  - 2 x 3 pin IEC Male, 100-240V AC, 4/2 A
  - Power Dissipation: 250W – Fully Populated
  - Weight: 13.2kg /29lb 1 oz
  - Shipping Weight: 15.8Kg /34lb 1oz
  - Dimensions: 7U 19” Rack Mount, H 310 x W 483 x D 510mm

**Environmental:** 0-40°C, 32-104°F  
**Approvals:** CE, UL, FCC part 15 class A

**Companion Models & Accessories:**

- 560 SPTL Quad Outlet Card
- 560 SNTL Quad Outlet Card
- 560 DPTL Quad Outlet Card
- 560 DNTL Quad Outlet Card
- 507 Micro TV Settop Receiver Unit
- 508 Micro Desktop PC Receiver Unit
- 512 Micro Access Touch Panel Receiver Unit
- 590/1Y Infra Red Remote Control
- 440-7005 Pro Hub Amplifier
- 468-100 IP to Serial Comms Converter
- 700C Pro Controller and Administration Software
- 461 Administration Software Suite

**Included within the scope of delivery:**

- 500/SL or DL Pro Hub, Rack Mounting kit, 2 x UK power leads, 2 x US power leads, 2m RS232 Cable, RJ45 terminator, 2m Cat-5 patch cable, 1m Type F coax cable, IR sensor module (Part 911-4141), Infra Red Handset (Part 590/1Y).

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**Brought to you by**

MediaStar Pro

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**TV over Cat-5/UTP**