**Overview**

The HD-SDI Balun (500701) allows one HD-SDI signal to be transmitted up to 150 ft (45m) via Cat5e cable at HD resolution in a point-to-point configuration. The HD-SDI Balun supports transmission of up to 1.5 Gbps uncompressed, un-encrypted digital video (optionally including embedded Audio and/or Time Code) within television facilities and between professional video equipment.

**Applications**

Video production, broadcasting, HD camcorder, studio-to-studio, post-production, live events, medical imaging displays, mobile video, HD/SD routing, HD-CCTV, medical imaging

**Key Features**

- Supports SD and HD (720p, 1080i) resolutions
- Up to 150 ft (45m) via Cat5e cable @ HD
- Up to 400 ft (120m) via Cat5e cable @ SD
- Supports Cat5e/6 cable
- Cast aluminum enclosure

**Specifications**

<table>
<thead>
<tr>
<th>Environment</th>
<th>SDI single link: SD &amp; HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices</td>
<td>Camcorders, video processors, monitors, projectors, scan converters, HD-CCTV cameras/DVR and any equipment supporting HD-SDI single link</td>
</tr>
</tbody>
</table>
| Standard supported | SD (PAL, NTSC): SMPTE 259M (270Mb/s)  
 HD (720p, 1080i): SMPTE 292M (1.5 Gb/s) |
| Connectors | One BNC 75 ohm male  
 One RJ45S for Cat 5e/6 |
| Maximum Distance Cat5e/6 | SD: Up to 100m (350ft) using Cat 5 UTP  
 up to 120m (400ft) for CAT 5E UTP  
 up to 150m (500ft) for CAT 6 UTP  
 HD: Up to 30m (100ft) using Cat 5 UTP  
 Up to 45m (150ft) for CAT 5E or 6 UTP |
| RJ45 Pin Configuration | Use EIA/TIA 568A or 586B straight-through wiring. |
| RJ45 Link | Pin 7 (R) Pin 8 (T) |
| Cables | One straight Cat 5e/6 UTP cable required. |
| Temperature | Operating: -40° to 85°C  
 Storage: -40° to 85°C  
 Humidity: Up to 95% non-cond. |
| Enclosure | Cast aluminum |
| Dimensions | 0.8” x 1.85” x 1.05” (2 x 2.6 x 4.7 cm)  
 L x H x W + extended BNC connector. |
| Weight | 1.5 oz (44 gms) |
| Compliance | Regulatory: FCC, CE, RoHS  
 Flammability: 94V0 |
| Warranty | Lifetime |
| Order Information | 500701 HD-SDI Balun  
 500701-2PK HD-SDI Balun, 2-Pack |
Typical Applications

HD-SDI Balun

HD-SDI Camcorder

Cat5e/6 cable

HD-SDI Monitor

HDCCTV Camera

Cat5e/6 cable

HDCCTV DVR