The 7743DLY-HD is a full function HD/SD-SDI Video Delay module designed for applications such as satellite uplink, signal re-entry on master control inputs, at cable headends, mobile vehicle outputs, broadcast transmitter inputs, virtual sets and matching delays caused by multi-channel audio compression.

The 7743DLY-HD can act as a delay for SD video (SMPTE ST 259) or for HD video (ST 292-1).

### Features & Benefits
- Full signal delay capability including VBI and ANC DATA for ST 292-1 (1.5Gb/s) signals
- 7743DLY-HD also supports full signal delay capability including VBI for SMPTE ST 259 (270Mb/s) signals
- Delay programmable in video units (frames, lines, and samples) or as time units (seconds)
- Auto senses video standard
- Bypass relay for program path protection on power loss
- Up to 3.2 seconds delay for HD
- Up to 16.5 seconds delay for SD
- Card edge controls operate on-screen menu system to program delay settings
- Input circuit features a line buffer which is suitable for “de-glitching” hot switches on upstream equipment (very useful for HD equipment)
- VistaLINK® capable for remote monitoring, control and configuration capabilities via SNMP; using VistaLINK® PRO, CP-2116E or CP-2232E Control Panels. VistaLINK® is available when modules are used with the 3RU 7800FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame

### Specifications

#### High Definition Serial Digital Video:
- **Standard:** ST 292-1 (1.5Gb/s) or SMPTE ST 259 (270Mb/s)
- **Connector:** BNC per IEC 61169-8 Annex A
- **Equalization:** Automatic to 75m @ 1.5Gb/s with Belden 1694A or equivalent cable
- **Delay:** 75m @ 1.5Gb/s
- **Overshoot:** < 10% of amplitude
- **Return Loss:** > 15dB up to 1.5Gb/s, > 10dB up to 1.5Gb/s with relay
- **Wide Band Jitter:** < 0.2 UI
- **Genlock Input:** HD Tri-level Sync
- **Connector:** BNC per IEC 61169-8 Annex A
- **Termination:** 75Ω (jumper selectable)

#### Standard Definition Serial Digital Video:
- **Standard:** SMPTE ST 259-C (270Mb/s)
- **Connector:** BNC per IEC 61169-8 Annex A
- **Delay:** 75m @ 270Mb/s
- **Overshoot:** < 10% of amplitude
- **Return Loss:** > 15dB up to 1.5Gb/s, > 10dB up to 1.5Gb/s with relay
- **Genlock Input:** NTSC or PAL Color Black 1V p-p, or Composite bi-level sync (525i/59.94 or 625i/50) 300mV
- **Connector:** BNC per IEC 61169-8 Annex A
- **Termination:** 75Ω (jumper selectable)

#### Serial Video Outputs:
- **Number of Outputs:** 1 with relay bypass, 1 additional output
- **Connector:** BNC per IEC 61169-8 Annex A
- **Signal Level:** 800mV nominal
- **DC Offset:** 0V ±0.5V
- **Rise and Fall Time:** 200ps nominal (HD), 740ps nominal (SD)
- **Overshoot:** < 10% of amplitude
- **Return Loss:** > 15dB up to 1.5Gb/s (HD), > 15dB up to 540Mb/s
- **Wide Band Jitter:** < 0.2 UI
- **Functional:** 65.5ms (1770 samples) for standard definition, 37.7ms (2800 samples) for HD definition
- **Minimum Delay:** Approx. 16.5 seconds for standard definition, approx. 3.2 seconds for high definition

### Ordering Information

#### 7743DLY-HD

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<th>HD/SD-SDI Video Delay</th>
<th>Accessories</th>
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<td><strong>Ordering Options</strong></td>
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<td>350FR</td>
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<tr>
<td><strong>Rear Plate Suffix</strong></td>
<td>VistaLINK® Frame Controller</td>
<td>3RU Portable Multiframe which holds up to 7 single slot modules</td>
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<tr>
<td>+3RU</td>
<td>CP-2116E-H</td>
<td>7700FR-C</td>
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<tr>
<td>+SA</td>
<td>Remote Control Panel</td>
<td>3RU Multiframe which holds up to 15 single slot modules</td>
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### Ordering Options

- Rear Plate Suffix
  - +3RU: 3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR
  - +SA: Standalone Enclosure Rear Plate

### Accessories

- 7700FC: VistaLINK® Frame Controller
- CP-2116E-H: Remote Control Panel
- CP-2232E: Remote Control Panel

### Enclosures

- 350FR: 3RU Portable Multiframe which holds up to 7 single slot modules
- 7700FR-C: 3RU Multiframe which holds up to 15 single slot modules
- 7800FR: 3RU Multiframe which holds up to 15 single slot modules
- 7801FR: 1RU Multiframe which holds up to 4 single or 2 dual slot modules
- ST7701FR: Standalone Enclosure

### Physical (number of slots):

- 350FR: 2
- 7700FR-C: 2
- 7800FR: 2

### Stand Alone Enclosure:

- Dimensions: 14” L x 4.5” W x 1.9” H (355mm L x 114mm W x 48mm H)
- Weight: Approx. 1.5lbs (0.7kg)