The FPT-48 is a new portable fiber unit designed for use in live production. Each unit combines multiple signals in one fiber cable to provide the compact and flexible solution for many production applications.

**Features**

- Support 3G/HD-SDI video, sync, camera control, supplies power to far end fiber unit and camera via SMPTE hybrid fiber cable
- Pass the pathological signal for the high performance signal, minimal jitter and eye pattern degradation
- LED display for the signal presence and alarm
- Integrated system function to transmit video, OCP control, gen-lock, power, offer the familiar traditional camera workflow for many PTZ, POV cameras
- Extend the distance of microwave video and wireless camera control signal via the SMPTE hybrid fiber cable in the complex environment
- Portable, easy to use, support multiple installation method

**Application**

- The partner of PTZ, POV, micro camera, support Sony, Panasonic, Incam etc.
- Stadium, studio, street for the different production site
- Reality show, arts, sports, specialty video production, medical imaging

**System components and diagram**

- Camera universal OCP
  Sony, Panasonic RCP
- Wireless Camera Control unit
- Incam Compact camera
  Sony, Panasonic camera

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Specifications

High-Quality Signal

Adaptive Cable Equalizer & Re-clock 
ultra-low jitter output

Camera 3G -> SDI Cable (100m) -> FTP-48 F -> SMPTE Fiber Cable -> FTP-48 N -> SDI Cable (1m) -> WFM scope

Pass the Pathological Pattern at all specified rates

Embedded High-Precision PLL circuit & Scrambler Laser Driver circuit

Alignment Jitter: <0.27UI (Re-clocked) to 2.97Gb/s

Timing Jitter: <0.36UI (Re-clocked) to 2.97Gb/s

Interface view

<table>
<thead>
<tr>
<th>Item</th>
<th>FPT-48 Near End</th>
<th>FPT-48 Far End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>48 VDC , 40W</td>
<td>40W, power from fiber cable</td>
</tr>
<tr>
<td>Size (LxWxH)</td>
<td>201x76x50mm</td>
<td>194x76x50mm</td>
</tr>
<tr>
<td>SDI connector</td>
<td>SMPTE 424M, 292M, 259M, Re-clocked.</td>
<td></td>
</tr>
<tr>
<td>Video Alignment Jitter</td>
<td>&lt;0.3UI(Re-clocked) to 2.97Gb/s, using pathological pattern</td>
<td></td>
</tr>
<tr>
<td>Optical cable connector</td>
<td>SMPTE hybrid fiber cable, Lemo connector, SMPTE 311M</td>
<td></td>
</tr>
<tr>
<td>BB connector</td>
<td>Black Burst signal for the gen-lock function</td>
<td></td>
</tr>
<tr>
<td>Data connector</td>
<td>RS422/232,DC</td>
<td>RS422/232, DC out(12V/2A)</td>
</tr>
<tr>
<td>DC OUT connector</td>
<td>/</td>
<td>DC out(12V/2A),shared with Data connector</td>
</tr>
</tbody>
</table>

Features, design, and specifications are subject to change without notice.

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