Overview:
A compact COFDM digital video transmitter, specifically designed for high quality wireless link applications. With proven Domo COFDM and next generation HEVC encoder technology at its core enabling Ultra High Definition images, the small size and actively cooled enclosure give maximum operational performance.

Designed to offer future proof connectivity, the unit supports quad 3G-SDI video inputs. Two true balanced audio inputs are included with phantom power. The transmitter has an integrated control panel with sunlight-readable display covering all major functions and has sixteen user-defined presets, as well as IP based control.

The HEVC codec used in AEON products offers a step change in compression efficiency over H.264 systems, whilst maintaining low end to end latency suitable for live events.

Features and Benefits:
- Ultra-low latency HEVC SD, HD and 4K encoding
- Video formats up to 2160p60, 10-bit and 4:2:2 chroma sampling, future HDR support
- Industry standard DVB-T modulation for interoperability with existing systems
- Domo Broadcast UMVL modulation for enhanced high frequency/high speed performance
- Controlled via IP or integrated sunlight-readable display
- Available as V-mount, AB-mount or no battery mount options
- Designed for sports & events coverage, newsgathering and wireless studio camera applications
- Low power consumption and active cooling for extended field performance

Product Information:

<table>
<thead>
<tr>
<th>Product Includes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA0579</td>
<td>XLR audio input cable</td>
</tr>
<tr>
<td>CA3348 x 4</td>
<td>SDI HD-BNC to BNC cable, 0.25m</td>
</tr>
<tr>
<td>SA4329</td>
<td>AEON Lite USB support stick</td>
</tr>
</tbody>
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Accessory Options (sold separately)

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>CA0340</td>
<td>RS232 data cable</td>
</tr>
<tr>
<td>CA0579</td>
<td>Additional second channel XLR audio input cable</td>
</tr>
<tr>
<td>CA3421</td>
<td>OB Lemo 15V 6.0A 90W desktop PSU</td>
</tr>
<tr>
<td>PRORXD-8-2RU-AEON</td>
<td>4K Professional HEVC Receiver and Decoder</td>
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Related Documents

<table>
<thead>
<tr>
<th>Document Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>100273</td>
<td>AEON Lite HEVC Transmitter User Guide</td>
</tr>
</tbody>
</table>
## Technical Specification

### IO
- **SD/HD 3G-SDI inputs**: HD-BNC x 4
- **Serial data input**: 4-way 0B Lemo
- **Power input**: 4-way 0B Lemo
- **RF COFDM transmitter**: N-type
- **Balanced audio input**: 5-way 0B Lemo x 2
- **Battery mount**: V-Lock or Anton Bauer plates
- **Ethernet**: RJ45

### DVB-T Modulation
- **DVB-T bandwidth**: 8MHz, 7MHz and 6MHz modes
- **DVB-T dual pedestal**: 2x8MHz, 2x7MHz and 2x6MHz modes
- **DVB-T FEC**: 1/2, 2/3, 3/4, 5/6, 7/8
- **DVB-T constellation**: QPSK, 16QAM, 64QAM
- **DVB-T guard interval**: 1/4, 1/8, 1/16, 1/32
- **DVB-T bitrates**: 3.732Mbps to 31.668Mbps

### UMVL Modulation
- **UMVL bandwidth**: 8MHz, 7MHz and 6MHz modes
- **UMVL FEC**: 1/3, 2/3
- **UMVL constellation**: QPSK, 16QAM, BPSK, 8PSK
- **UMVL guard interval**: 1/8, 1/16
- **UMVL bitrates**: 1.317kbps to 14.863Mbps

### Video
- **SD input format**: SMPTE-259M
  - 720x576i 50Hz
  - 720x480i 59Hz
- **HD input format**: SMPTE-292M/424M
  - 1920x1080i 60/59.94/50Hz
  - 1920x1080p 60/59.94/50/30/29.97/25/24/23.97Hz
  - 1280x720p 60/59.94/50Hz
- **Ultra HD input format**: SMPTE ST-2081/2082
  - 3840x2160p 60/59.94/50/30/29.44/25/24/23.97Hz
- **HEVC compression**: HEVC/H.265/MPEG-H Part 2
  - 8-bit or 10-bit, 4:2:0 or 4:2:2
- **H.264 compression**: AVC/H.264/MPEG-4 Part 10
- **MPEG-2 compression**: H.262/MPEG-2 Part 2

### Audio
- **Analogue audio input**: Two balanced analogue stereo pairs
  - +4dBu max input level
- **Analogue phantom power**: 48V switchable
- **Digital audio input**: SD/HD 3G-SDI de-embedding
- **Sample rate**: 48kHz
- **Coding modes**: Up to 8 channels (4 pairs)
  - LPCM
## AEON-LT
### AEON HEVC Transmitter Lite

### Technical Specification (con't):

<table>
<thead>
<tr>
<th>Other</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RS232 data input</td>
<td>1k2 to 115k2, 7/8 bit, no/odd/even parity</td>
</tr>
<tr>
<td>Front panel</td>
<td>Built in display with button control</td>
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</table>

<table>
<thead>
<tr>
<th>Power</th>
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<tbody>
<tr>
<td>DC input</td>
<td>9.2V to 17.8V reverse polarity protected</td>
</tr>
<tr>
<td>Power consumption</td>
<td>30W max</td>
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<table>
<thead>
<tr>
<th>Physical</th>
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<tbody>
<tr>
<td>Dimensions (no battery mount)</td>
<td>177mm (L), 125mm (W), 50mm (D)</td>
</tr>
<tr>
<td>Weight</td>
<td>1080g</td>
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<table>
<thead>
<tr>
<th>Environment</th>
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</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-10°C to +50°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>Less than 85% non-condensing</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td>198270</td>
<td>1.98-2.70GHz</td>
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<tr>
<td>300370</td>
<td>3.00-3.70GHz</td>
</tr>
<tr>
<td>440500</td>
<td>4.40-5.00GHz</td>
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<tr>
<td>700750</td>
<td>7.00-7.50GHz</td>
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<table>
<thead>
<tr>
<th>Software License Code</th>
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<tbody>
<tr>
<td>Silver (included)</td>
<td>DVB-T, Ultra Mobile Video Link (UMVL), Dual Pedestal, Single HD Encoder</td>
</tr>
<tr>
<td>LIC-AEON-PSF</td>
<td>PSF Video Formats</td>
</tr>
</tbody>
</table>

*Additional license feature

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