4K Integrated Multi-Service System for Video/Audio/Control
IMS-88-XXXX

* Modular Input Card Options:
  D= DisplayPort  H=HDMI  V= VGA  I=3G-SDI  S=SVideo/Composite Video

FEATURES

- A compact and robust Multi-Service Control system for 4K video switching, video format conversion, audio switching and external sensor/device control management
- Modular design accommodates up to 8 input ports with 4 ports available for video format conversion including, DisplayPort 1.2, S-video, composite video, VGA, and/or 3G-SDI
- Supports video resolutions up to 3840x2160@60Hz and 4096x2160@60Hz
- Configurable router to fit each operating rooms input needs
- Provides 4 USB power ports with 5V/1A rating for external fiber extender
- Built-in control processor with LAN, RS-232 and/or Relay I/O
- Built-in 2x1 audio switching
- Optional 4K multi-view
- Automation triggers
- Output 4K or 1080p scaling

OVERVIEW

The Integrated Multi-Service System (IMS) offers the first All-In-One Modular Medical Appliance System with a compact form factor to save valuable space in the medical environment. Multiple input card options allow you to configure the system with up to 8 mixed 4K digital and analog video inputs and up to 8 video outputs. The modular design offers the ability to customize your system for a wide array of options to suit your application needs. The compact design offers robust options for 4K Video Switching, Video Format Conversion, Audio Switching and external sensor/device control management capabilities. This is the ideal solution for mission-critical applications where space is a high commodity.
IMS Input Card Options

- DisplayPort 1.2
- HDMI 2.0
- VGA/YPbPr
- (S)-Video/Composite Video
- 3G-SDI

IMS Accessories

- Fiber Optic HDMI 2.0 Extender
- Fiber Optic DVI Extenders
- Multi-Format Scaler System

Input Card Options (up to 4)
- Display Port 1.2
- HDMI
- VGA/YPbPr
- 3G-SDI
- S-Video/Composite

BASE SYSTEM
- Control Processor

Matrix Switcher Inputs (4)
- HDMI 2.0 x 4

Matrix Switcher Outputs (8)
- HDMI 2.0 x 8

Multi-View (Option)
- x 1 Out (to Amp/Receiver)

Video Adapter Board (4)
- USB Power (5)
- Audio Switcher
- 5V USB x 4

USB Power (5)
**VIDEO INPUT**

<table>
<thead>
<tr>
<th>Port Count</th>
<th>8 (4-Fixed HDMI and 4-Selectable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Formats</td>
<td>HDMI 2.0, DisplayPort 1.2, VGA/YPbPr, Composite Video/S-Video, 3G-SDI</td>
</tr>
<tr>
<td>Connector</td>
<td>HDMI type A (HDMI 2.0), DisplayPort (DisplayPort 1.2), HD-15 (VGA/YPbPr), 3-BNC (Composite/S-Video), BNC (3GSDI, HDSDI, SDI)</td>
</tr>
</tbody>
</table>

**VIDEO OUTPUT**

<table>
<thead>
<tr>
<th>Port Count</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Format</td>
<td>HDMI 2.0</td>
</tr>
<tr>
<td>Connector</td>
<td>HDMI type A</td>
</tr>
</tbody>
</table>

**AUDIO INPUT/OUTPUT**

<table>
<thead>
<tr>
<th>Port Count</th>
<th>2 Input and 1 Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Format</td>
<td>Analog L/R</td>
</tr>
<tr>
<td>Connector</td>
<td>3.5mm Jack</td>
</tr>
</tbody>
</table>

**SERIAL DATA (CONTROL)**

<table>
<thead>
<tr>
<th>Channel Capacity</th>
<th>2 bi-directional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Format</td>
<td>RS-232</td>
</tr>
<tr>
<td>Data Rate</td>
<td>Up to 115.2K baud</td>
</tr>
<tr>
<td>Connector</td>
<td>Terminal Block</td>
</tr>
</tbody>
</table>

**LAN (CONTROL)**

<table>
<thead>
<tr>
<th>Channel Capacity</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Speed</td>
<td>10/100Base-T</td>
</tr>
<tr>
<td>Connector</td>
<td>RJ-45</td>
</tr>
</tbody>
</table>

**RELAY (CONTROL)**

<table>
<thead>
<tr>
<th>Channel Capacity</th>
<th>1 normally open or closed relay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay Contact Rating</td>
<td>24V @ 1A</td>
</tr>
<tr>
<td>Connector</td>
<td>Terminal Block</td>
</tr>
</tbody>
</table>

**OTHER FEATURED I/O**

| USB Power Ports | 4, with 5V/1A rating each |

**PHYSICAL**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>17.25&quot;(W) x 16.50&quot;(D) x 3.49&quot;(H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>+12 V @ 8 Amp (Max.)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 40°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>0 to 90% RH, Non-Condensing</td>
</tr>
</tbody>
</table>

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**GREEN COMPLIANCE**

RoHS

**ORDER INFORMATION**

IMS-88-XXXX 4K Integrated Multi-Service Video/Audio/Control System (8x8)

XXXX= Select 4 of the following modular input card options:

- H= HDMI Input
- D= DisplayPort
- V= VGA Input
- I= 3GSDI
- S= S-Video/Composite Video

**Included Accessories**

- 12V @ 8A Medical Grade Power Supply

**Optional Accessories**

- LBO-H2-T-M-SC Fiber Transmitter, Multimode, 1-Fiber
- LBO-H2-R-M-SC Fiber Receiver, Multimode, 1-Fiber
- MFS-DVI Multiformat (DVI/VGA/SV/CV) Scaler without Audio, DVI Ouput
- LBO-DVI-T-M-SC-MC Link Bridge DVI Video Transmitter, MMF-SC, 1-Fiber, Metal Case (Video Only)
- LBO-DVI-R-M-SC-MC Link Bridge DVI Video Receiver, MMF-SC, 1-Fiber, Metal Case (Video Only)

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