Video Control on Demand

Bringing together sophisticated presentation switching with advanced mixing capabilities into a single device, this vision mixer console includes broadcast style features for quick usage and access for any event or presentation. Integral dual eight-inch LCD displays provide monitoring of video sources, full preview, and program outputs. At the rear of the M3, the unique RGBlink modular platform becomes apparent, with a host of signal options and features.

Along with the on-board LCD monitoring, signature large tactile illuminated buttons feature with T-Bar mixing controls. Up to six outputs may be fitted to M3 for presentation solutions that go beyond just vision mixing, and with powerful scaling features, M3 is a fully integrated video system suitable for professional environments across entertainment to integration.

M3 is available in two variants with the M3e model having additional features for AUX outputs when fitted, including PIP capabilities and more.

Features

- Integrated vision mixer and scaler
- 16 mega pixel capacity
- PST to PGM presentation switching
- Background insert inputs
- Overlay features including OSD, LOGO & STILL
- Digital effects for PIP including Mask, Frame, DSK
- Dedicated PVW Multiview onboard and external

- Integral adjustable Dual LCD displays
- Genlock Y In support
- Tally support
- Support for redundant power supply
- RGBlink SmartSlot™ modular signal structure
- Store and recall presets on board
- Save settings and presets to USB
Standard Mode
The default operation mode of the M3, utilise up to five scaled layers/windows over with a background. Switch seamlessly between Preset (PST) and Program (PST).

Example: four PIP over a background on a single output (and duplicated on the 2nd HDMI output)

4K1K Splicing Mode
Utilising the standard dual HDMI outputs, up to 2 layers may be used on each output for seamless PST/PGM switching.

Example: two scaled video layers on each HDMI output

AUX + PGM Splicing mode
Fit an AUX module to utilise six outputs to splice and scale video up to 6Kx2K or 12Kx1K on the standard M3 model.

Example: 6K x 2K spliced display using six outputs

Example: 12K x 1K spliced display using six outputs

AUX + LOOP
With the optional AUX module fitted back to an input, create the PST/PGM across the auxiliary outputs.

Example: 4K spliced display using AUX and PGM

Example: 8Kx1K spliced display using AUX and PGM

Example: Five displays, with centre “B” display using main HDMI output and window/layer

Example: Multiple AUX outputs with separate
AUX

Using the M3e model, add up to five video layers – one for each output plus a background video. (Main HDMI outputs operate as shown in Standard Mode).

Example: PIP on each AUX output over a background

Example: Dual PIPs split across AUX outputs over a background

Example: Single PIP split across the four AUX outputs over a background

Example: Single PIPs on each of two displays as well as a PIP split across the two AUX outputs over a background

Example: Scaled output to each AUX output.
Scale
Set output resolution independently from input resolutions, and scale the output pixel-to-pixel, ideal for direct connection to non-native displays such as LED. Arrange scaled layers is in any position.

Multiview Preview
M3 features a dedicated multi-view preview display available both from the on board LCD and via a dedicated HDMI output. This configurable PVW can display up to eight input sources.

Digital Effects
A video mask may be applied to a foreground PIP video layer. There are wide range of included masks, and in additional users may load custom masks for even more creative control. Other effects available include DSK/Chroma Key, blend edge softening effect and frames/borders including drop-shadow.

Crop & Position
Select X and Y offsets along with width and height to select any image part for output.

PST/PGM Monitoring
An onboard LCD display is dedicated to providing monitoring of PST and may also be switched to show PGM. For external duplication of this monitoring, a dedicated HDMI output port is also provided.

Modular Inputs
A wide range of input options are available with up to twelve inputs able to be user fitted Input options include HDMI, DVI, SDI, DisplayPort, CVBS and USB 2.0 media.

LOGO & STILL
Import and apply a STILL (watermark) or LOGO (channel transitions with TAKE), these layers are additional overlays regardless of video layers in use.

Auxiliary Outputs
With the optional AUX output module fitted, four 2K outputs are added to M3 (bringing the total to six 2K outputs). The AUX outputs are ideal for use a relay monitors, for distributed signals or spliced displays. With the M3s model, AUX outputs add PIP support.
Specifications

**Input**

- 3 slots up to 12 inputs
  - Select from:
    - DVI module
    - HDMI module
    - SDI module
    - VGA module
    - CVBS module
    - USB module
    - 4K@30 module

- Input-BKGD Standard with HDMI 2 x HDMI-A
- Input-PGM Standard with HDMI 2 x HDMI-A
  - 1 slot up to 4 outputs
  - Select from:
    - DVI module
    - HDMI module
    - SDI module
    - VGA module
    - CVBS module
    - USB module
    - 4K@30 module

- Input-PST Standard with HDMI 1 x HDMI-A
- Input-PWV Standard with HDMI/VGA 1 x HDMI-A | 1 x DB15

**Communication**

- LAN 1 x RJ11
- Link In/Link Out 1 x DB9 (female) | 1xDB9 (male)
- Genlock (In | Loop ) 2 x BNC
- USB 1 x USB Type A
- Tally 3 x DB15

**Power**

- 2 slots up to 2 power inputs
- Standard with 1 x IEC

**Input Resolution**

- SDI
  - SMPTE 480i | 576i | 720p@50/60 | 1080i@59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 1080psf@23.98/24/25/29.97/30
- VGA
  - 800x600@60 | 1024x768@60 | 1280x1024@60 | 1366x768@60 | 1440x900@60 | 1600x1200@60
- DVI | USB
  - SMPTE 480i | 576i | 720p@50/60 | 1080i@59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 1080psf@23.98/24/25
  - VESA 800x600@60 | 1024x768@60 | 1280x1024@60 | 1366x768@60 | 1440x900@60 | 1600x1200@60 | 1920x1080@60 | 1280x768@60 | 1366x768@60 | 1440x900@60 | 1600x1200@60 | 1920x1080@60 | 2048x1152@60
- CVBS
  - SMPTE 480i | 576i | 720p@50/60 | 1080i@59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 1080psf@23.98/24/25
  - VESA 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x1024@60 | 1366x768@60 | 1440x900@60 | 1600x1200@60 | 1920x1080@60 | 1280x768@60 | 1366x768@60 | 1440x900@60 | 1600x1200@60 | 1920x1080@60 | 2048x1152@60

**Performance**

- Output Resolution
  - Select from below or configure customized
  - SDI
    - SMPTE 720p@50/59.94/60 | 1080i@50/59.94/60
  - HDMI/DVI
    - SMPTE 720p@50/59.94/60 | 1080p@50/59.94/60
  - VESA
    - 800x600@60 | 1024x768@60 | 1280x768@60 | 1280x1024@60 | 1366x768@60 | 1440x900@60 | 1600x1200@60 | 1920x1080@60 | 1280x768@60 | 1366x768@60 | 1440x900@60 | 1600x1200@60 | 1920x1080@60 | 2048x1152@60

**Supported Standards**

- HDMI 1.4
- Dual Link DVI
- DP 1.1a
- SDI
- SMPTE 425M (Level A & B) | SMPTE 424M | SMPTE 292M | SMPTE 259M-C | DVB-ASI
- VGA-UXGA
- USB 2.0

**Features**

- Splicing 12k1k
- Maximum Layers 5
- EDID Management Yes
- LCD Screens 2

**Power**

- Input Voltage AC 100–240V 50/60Hz
- Max power 205W

**Environmental**

- Temperature -25°C–55°C (25°C Typical)
- Humidity 10%–90%

**Physical**

- Weight Net 16.65kg
  - Packaged 27.95kg
- Dimensions Net 502mm x 430mm x 186mm
  - Packaged 610mm x 580mm x 395mm

**Order Codes**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>310-0003-31-1</td>
<td>M3</td>
</tr>
<tr>
<td>310-0003-35-1</td>
<td>M3 (Aux PIP)</td>
</tr>
<tr>
<td>190-0003-01-0</td>
<td>Quad DVI Input Module</td>
</tr>
<tr>
<td>190-0003-02-0</td>
<td>Quad HDMI 1.3 Input Module</td>
</tr>
<tr>
<td>190-0003-03-0</td>
<td>Quad VGA Input Module</td>
</tr>
<tr>
<td>190-0003-04-0</td>
<td>Quad 3G SDI Input Module</td>
</tr>
<tr>
<td>190-0003-05-0</td>
<td>Quad 2K HDMI-S Input Module</td>
</tr>
<tr>
<td>190-0003-06-0</td>
<td>Octuple CVBS Input Module</td>
</tr>
<tr>
<td>190-0003-07-0</td>
<td>Quad USB 2.0 Input Module</td>
</tr>
<tr>
<td>190-0003-11-0</td>
<td>4K@30 Input Module</td>
</tr>
<tr>
<td>190-0003-21-0</td>
<td>Quad DVI Output Module</td>
</tr>
<tr>
<td>190-0003-22-0</td>
<td>Quad 2K HDMI Output Module</td>
</tr>
<tr>
<td>190-0003-24-0</td>
<td>Quad 3G-SDI Output Module</td>
</tr>
<tr>
<td>990-0003-60-0</td>
<td>200W Power Module</td>
</tr>
</tbody>
</table>

Dimensions

WEB: www.rgbblink.com EMAI: sales@rgbblink.com PHONE: +86 592 5771197
Proudly designed and manufactured in Xiamen Hi Technology Zone, China