

# M3

X3 LIVE



**Hands On for Performance**  
**Complete Presentation Processing and Mixing**

**RGBlink®**

# *Sophisticated all-in-one vision mixing and scaling*

M3 brings together sophisticated presentation switching with advanced mixing capabilities into a single device. The vision mixer console includes broadcast style features for quick access during any performance, along with dual eight-inch LCD displays to monitor video sources, full preview, as well as live/program display monitoring.

- Integrated Vision Mixer
- Full Preview to Program presentation switching
- Additional background layer capability
- Dual angle adjustable LCD monitors
- Multi-View input sources
- Full modular design
- Configurable GenLock built-in
- Support for Tally
- 16 mega pixel capacity
- Save configurations on board and to USB
- Optional Redundant Hot Swap PSU

## Flexible Local Monitoring

The dual LCD displays can show Multi-View of input sources, be used to preview and pre-set, show background channels as well as monitor live outputs.

## GenLock Built-in

HS and VS GenLock is provided as standard, and is configurable allowing sync with other devices and sources.



## Modular Design Throughout

Input and output modules, along with accessory modules use the RGBlink SmartSlot system for ease of exchange and user selection. The PSU is exchangeable also, with facility for the fitting of a redundant PSU too.



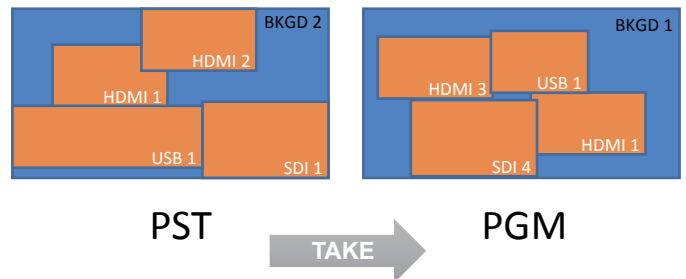
## LOGO & STILL

Up to 50 256x128pixel images can be stored directly on board M3 for immediate recall. STILL appears on PST and PGM and supports keyed background removal. Ideal for channel logos. While LOGO configured on PST then presented on PGM with TAKE, making LOGO suitable for program or section specific graphics.



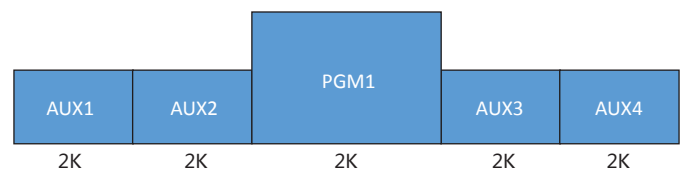
## Preview & Present

Include up to four foreground layers, setting positioning, scaling, and cropping as desired. Include a background layer, then TAKE to PGM either mixing via the T-Bar or using a visual effect. The functionality is any-layer-to-any-layer, with a source able to be on both Program and Preview, each scaled and positioned individually. Layouts can be saved into pre-set banks for later recall by an operator on demand, without any sync loss and with smooth transition. Switching between pre-sets is seamless.



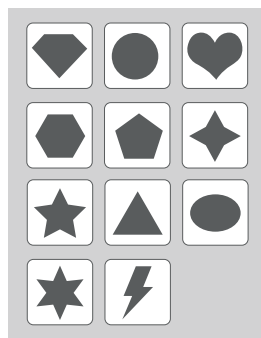
## Flexible Output Configuration

M3 is standard with two HDMI PGM outputs as well as dedicated PST and PVW outputs. An additional auxiliary output module can be added providing four DVI or SDI outputs for more sophisticated multi-display presentation applications.



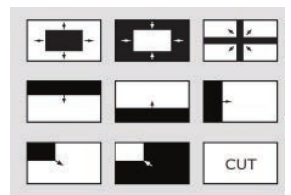
## Layer Mask

M3 includes a range of standard masks that can be applied to a foreground video layer. There is also the ability to load custom masks for even more bespoke presentations. A Mask can be positioned and scaled on the video layer.



## Transition

Visual effects can be applied to TAKE operations either on the T-Bar or timed via the TAKE button. Transition effects include wipes, pushes and pulls.



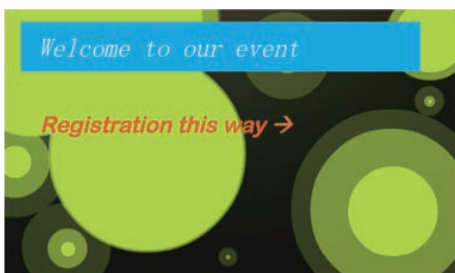
## Effects

Foreground video layers can include variable edge blending, and DSK and Chroma/Lumia Key can be applied.



## OSD

Two separate lines of On Screen Display (OSD) text are available. These are presented in a separate layer and can be configured individually for font, style and colour, including background colour, as well as motion. Up to 300 lines can be stored on board M3, with OSD loaded on PST for TAKE to PGM



# Specifications

|                |                        |  |
|----------------|------------------------|--|
| Inputs         | Background             | 2 HDMI Inputs  |
|                | SmartSlots             | 3 (up to 12 inputs)  |
| Outputs        | Signal Options         | HDMI   DisplayPort   3G-SDI   DVI   VGA   CVBS   USB Media   |
|                | Standard PGM Outputs   | 2 HDMI   |
|                | Preview (PVW)          | 1 HDMI   1 VGA   |
|                | Preset (PST)           | 1 HDMI   |
|                | SmartSlots             | 1 (up to 4 outputs)  |
| Performance    | Signal Options         | HDMI   DVI-I   3G-SDI  |
|                | Input Resolutions      | DVI / HDMI:<br>SMPTE: 625@25/50 PAL   525@29.97/59.94 NTSC   720p@50/60   1080i@50/59.94/60   1080p@50/59.94/60<br>VESA: 800x600@60   1024x768@60   1280x768@60   1280x1024@60   1600x1200@60<br>1920x1080@60   1920x1200@60   2048x1152@60   2560x816@60<br>SDI: 720p@50/60   1080i@59.94/60   1080p@23.98/24/25/29.97/30/59/59.94/60<br>1080psf@23.98/24/25/29.97/30   1440x487@60   1440x576@50<br>VGA: 800x600@60   1024x768@60   1280x1024@60   1440x900@60   1600x1200@60<br>4K: 2560x1600   3840x1080   3840x2160                 |
|                | Output Resolutions     | Select from standard set or select user configurable<br>SMPTE:<br>625/25/50 PAL   525/29.97/59.94 NTSC   1080p@50/59.94/60   1080i@50/59.94/60   720p@50/59.94/60<br>1280x720@23.98/24/25/29.97/30   1920x1080@23.98/24/25/29.97/30<br>VESA:<br>800x600@60   1024x768@60/75/85   1280x720@60/60   1280x800@60   1280x1024@60<br>1360x768@60   1366x768@60   1400x1050@60   1440x900@60   1600x1200@60<br>1680x1050@60   1920x1080@60   1920x1200@60   2048x1152@60   2560x816@60<br><i>not all resolutions supported for VGA output.</i> |
|                | Genlock                | 480i   576i   720p@50/59.94   1080i@50/59.94   1080p@50/59.94/60   1080psf@23.98/24  |
|                | Standards Supported    | DVI: DVI-I<br>HDMI: 1.3<br>VGA: UXGA<br>DisplayPort: 1.2<br>SDI: SMPTE 425M (Level A & B)   SMPTE 424M   SMPTE 292M   Å SMPTE 259M-C   DVB-SII   |
|                | Max Layers (switching) | 4+1  |
|                | Grayscale Processing   | 12bit  |
|                | Processing Engine      | 10bit  |
|                | Genlock                | HS & VS  |
|                | Standard Connectors    | Power Supply   |
| Comm. Module   |                        | Genlock 2 BNC<br>LAN 1 RJ45<br>Device Link 1 DB9 M   1 DB9 F   |
| PGM/PST Module |                        | Program (PGM) 2 HDMI<br>Preset (PST) 1 HDMI<br>Background Insert 2 HDMI  |
| PVW Module     |                        | Preview (PVW) 1 HDMI   1 VGA   |
| Power          | Input Voltage          | AC 85-264V 50/60Hz   |
|                | Max Power              | 205W   |
|                | Power Supply           | Exchangeable   Optional redundant PSU can be fitted  |
| Operation      | Temperature            | -25°C to 55°C  |
|                | Humidity               | 10-90% RH  |
| Physical       | Device Dimensions      | 502mm x 401mm x 186mm  |
|                | Device Weight          | 16kg   |
|                | Packed Dimensions      | 537mm x 497mm x 312mm (Flightcase in carton)   |
|                | Packed (net) Weight    | 32kg   |

# Ordering Codes

| Product Code  | Item  |
|---------------|---|
| 310-0003-32-1 | M3  |
| 310-0003-36-1 | M3 e*   |
| 190-0003-01-0 | Quad 2K DVI Input Module                                      |
| 190-0003-02-0 | Quad 2K HDMI Input Module                                     |
| 190-0003-03-0 | Quad VGA Input Module   |
| 190-0003-04-0 | Quad 3G-SDI Input Module                                      |
| 190-0003-06-0 | Quad CVBS Input Module  |
| 190-0003-07-0 | Quad USB 2.0 Input Module                                     |
| 190-0003-11-0 | 4K@30 Input Module (DVI/HDMI/DisplayPort)                     |
| 190-0001-03-2 | Single DisplayPort 1.1*                                       |
| 190-0001-04-2 | Single DVI Input (CVBS, VGA, YPbPr with adapter)*             |
| 190-0001-13-2 | Single HDMI Input*  |
| 190-0001-07-2 | Single 3G-SDI In/Loop Out*                                    |
| 190-0001-10-2 | Single USB 2.0 In/Backup*                                     |
| 980-0001-02-2 | EXT4 Input Interface Card (Supports 4 single input modules)*  |
| 190-0003-21-0 | Quad 2K DVI Output Module                                     |
| 190-0003-22-0 | Quad 2K HDMI Output Module                                    |
| 190-0003-24-0 | Quad 3G SDI Output Module                                     |
| 950-0001-00-0 | Power Supply (Need to order if redundant power supply needed) |

\*Coming soon

\*M3 e with AUX fitted supports PIP and enhanced features on AUX outputs

