

# TESSERA M2



## The M2 is the combination of flexibility and superior image quality

The M2 LED Video Processor is the flagship product in the Tessler range. The M2 features powerful front-end processing with broadcast quality scaling and motion adaptive de-interlacing that eliminates the need to use an external scaler.

The M2 processor has one DVI-I input, and two 3G-SDI inputs. It supports input resolutions of up to 1080p60. Each input can be fully configured with contrast, brightness, gamma, hue, saturation and RGB gain. Inputs can be scaled up or down to suit the LED panel configuration, with clean switching and fading.

The system is configured using the intuitive and powerful Tessler Management Software. This gives you the option of using a remote PC (Windows or Mac) or working locally by plugging a mouse, keyboard and monitor directly into the processor. Real-time previews assist with system set-up and confirm source status. Live control of multiple Tessler processors can be achieved using the Tessler Control application, also available for Windows PC or Mac.

All the processors in the Tessler family communicate with LED panels fitted with Tessler receiver cards. This allows them to communicate bi-directionally with the panel over Gigabit Ethernet. The use of standard Ethernet allows off-the-shelf Gigabit Ethernet networking equipment and cabling to be used. Tessler receiver cards can be retro-fitted to either existing panels or seamlessly integrated into new designs.

The features of the M2 processor enable the confident delivery of large and complex layouts, or events demanding superior video performance. It combines robust reliable operation with ease of use.



## TESSERA M2 PROCESSOR

### Specifications

#### Physical

Unboxed (WxHxL):  
431.8mm (19") x 88.9mm (3.5") x 508.0mm (20")  
Rear width: 482.6mm (17")  
Boxed:  
571.5mm (22.5") x 215.9mm (8.5") x 647.7 (25.5")

#### Electrical

100 - 240V AC, 47Hz - 60Hz, 1 - 0.5A  
Autoranging power supply.

#### Weight

Gross: 12Kg (26.5lbs)  
Net: 9Kg (20lbs)

#### DVI-I Input

up to 1920 x 1080 @ 60Hz  
Support for RGB and YCbCr colour spaces  
DVI-D  
DVI-A  
VGA/RGBHV  
YPbPr  
  
HDMI support with suitable adapter  
No HDCP support  
With loop through

#### SDI Input

2 Inputs that support the following:  
SD-SDI - SMPTE 259M-C:  
576i50 4:2:2 10 bit YCbCr  
486i59.94 4:2:2 10 bit YCbCr  
  
HD-SDI - SMPTE 292M:  
720p23.98/24/25/29.97/3050/59.94/60 10 bit YCbCr  
1080i50/59.94/60 4:2:2 10 bit YCbCr  
1080p23.98/24/25/29.97/30 4:2:2 10 bit YCbCr  
  
3G-SDI - SMPTE 425M-A/B:  
1080p50/59.94/60 Level A 4:2:2 10 bit YCbCr  
1080p50/59.94/60 Level B DL 4:2:2 10 bit YCbCr

2 inputs can be used together to support  
Dual Link SDI - SMPTE 372M:  
1080p50/59.94/60 4:2:2 10 bit YCbCr

With reclocked loop throughs

#### DisplayPort Input

DisplayPort input supported as a future option

#### Genlock

Bi-level and Tri-level sync  
Sync to SDI  
Lock to source  
Processors genlock from source right through to panel refresh

#### Outputs

Up to 4 Gigabit Ethernet outputs. Each output supports 500,000 pixels at 24 bits per pixel @ 60Hz.

#### Remote Applications:

Both Management and Control applications:  
Gigabit Ethernet port supports network connection from Windows PC or Mac OS using Tessler management software  
Windows and Mac OS X compatible

#### Remote Control

Support for eDMX protocols: Art-Net, Pathport, sACN, Streaming RDM  
DMX-512A input  
Tessler Control application for multi-processor control

#### I/O

2 x USB2.0 ports on front  
2 x USB2.0 ports on rear  
1 x DisplayPort DP++ monitor output

#### Warranty

2 years

#### Certifications:

CE, ETL/cETL



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