BROMPTON TECHNOLOGY

TESSERA T1 LED PROCESSOR

Designed for creativity

LEGACY UNIT

The Brompton Technology **Tessera T1 LED processor** is the best choice for smaller creative shows that don't need to output a huge number of pixels. It supports resolutions up to 1080p60 and offers front-side processing, rotation and DMX control. It has a single **Tessera Protocol Gigabit Ethernet** output, capable of a nominal 525K pixels at 60Hz.

The **T1** processor offers you maximum flexibility over fixture layout and input processing - perfect for shows using coarser pitch panels and strips/tiles. Its single DVI-D input can be scaled, clipped and colour adjusted to perfectly map the content to the fixtures.

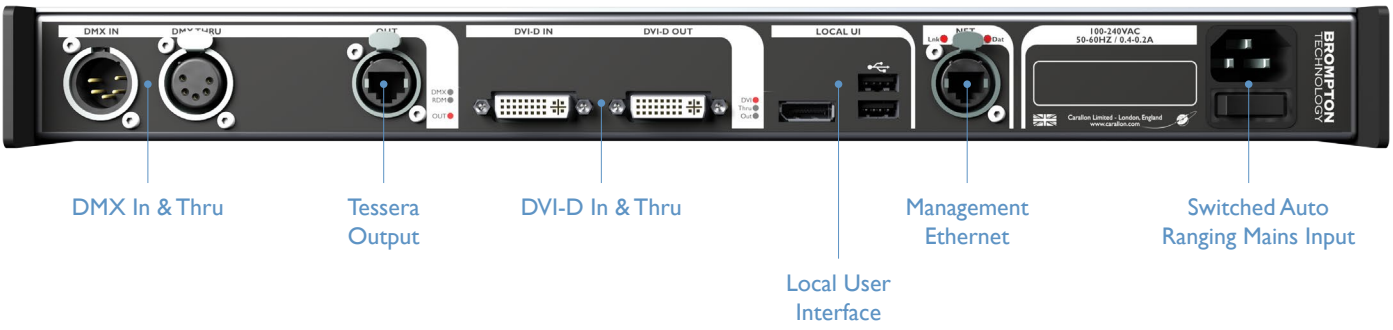
There are several powerful, flexible options for configuring fixtures within the full HD 1920x1080 standard canvas such as:

- Quick Association for a fast and easy way to associate large numbers of fixtures to a **Brompton** processor
- Pixel mapping that allows free placement and rotation of fixtures regardless of cabling order and includes mapping support for multiple 'sub-fixtures' from a single **Receiver Card**, e.g. for LED strips / small tiles, allowing each one to be independently positioned and rotated
- **Interpolated Mode** that seamlessly and automatically scales your content across all fixture types regardless of pixel pitch

LEGACY UNIT

TESSERA T1 | FRONT

TESSERA T1 | REAR



SOME OF THE TESSERA T1 PROCESSOR KEY FEATURES

FIXTURE ROTATION & SUB-FIXTURE MAPPING

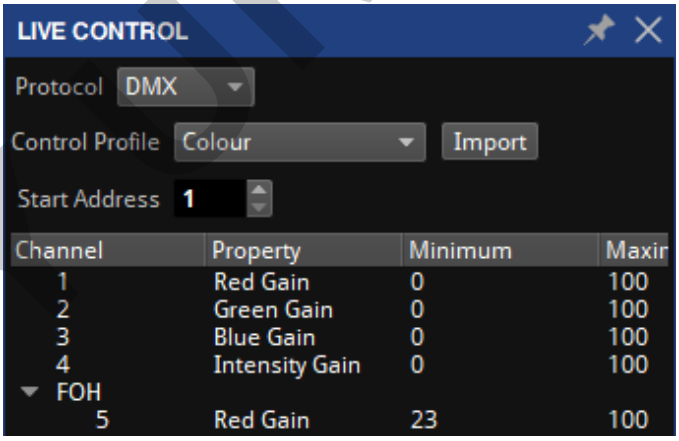
Tessera makes setting up your LED fixtures easy, regardless of number, size or cabling order, offering increased flexibility and much greater creative control over fixtures of any pixel pitch.

You can place fixtures and sub-fixtures anywhere on the full HD canvas, and rotate them to any angle. The Tessera system uniquely supports multiple sub-fixtures from a single R2 receiver card, making mapping creative shows with LED strips and small tiles easier than ever.

DMX CONTROL

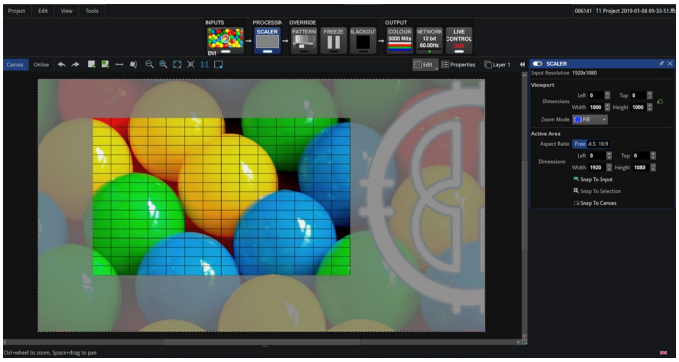
For seamless integration with a lighting control system, the Tessera T1 offers live control via DMX or eDMX protocols (e.g. Art-Net).

You can configure your channels to control everything from colour settings to fixture group positioning to screen intensity. To make it even easier, the Tessera T1 comes with a number of pre-built profiles with commonly used controls so you can get to work straight away, or power users have the option to fully customise their profiles.



LOW LATENCY SCALER

The Tessera T1 processor boasts a very low latency up/down scaler that matches the source to the screen. It also means that there is no need for an external scaler which reduces the overall cost and simplifies your system. In addition, it offers region-of-interest clipping.



LEGACY

TESSERA T1 LED PROCESSOR

Full Specifications

PHYSICAL (WXHXL)
Unboxed:
- 482.6mm (19") x 44.5mm (1.75") x 342.9mm (13.5")

Boxed:
- 570mm (22.4") x 170mm (6.69") x 450mm (17.7")

WEIGHT
- Unboxed: 3.1Kg (6.8lbs)
- Boxed: 5.5Kg (12.1lbs)

ELECTRICAL
- Switched autoranging power supply
- 100 - 240V AC
- 50Hz - 60Hz
- 0.4 - 0.2A

DVI-D INPUT
- One DVI-D input
- Up to 1920 x 1080 @ 60Hz
- Non standard resolution support for: 1600 x 1200, 2880 x 720, 720 x 2880 and 1080 x 1920
- Support for RGB and YCbCr colour spaces
- HDMI support with suitable adapter
- No HDCP support

OUTPUT
- One 1G Tessera output port capable of a nominal 525K pixels at 8 bits per colour, 60Hz frame rate

GENLOCK
- Sync to source
- Processors genlock from source right through to panel refresh
- Frame rates from 23.98 to 60Hz

LATENCY
- 3 frames end-to-end system latency (all features)
- 2 frames end-to-end system latency in low-latency mode (restricted features)

TESSERA MANAGEMENT SOFTWARE:
- Local management using monitor, keyboard and mouse connected directly to processor
- Monitors from 1024x768 up to 1920x1080
- DP++ monitor output supports HDMI, DVI and VGA using a suitable adapter

TESSERA REMOTE:
- Available free for Windows PC and Mac OS
- Remote management using Windows PC or Mac connected to processor via Ethernet network
- One Gigabit Ethernet network port

REMOTE CONTROL:
- DMX-512A on 5-pin XLR in and thru
- IP Control

I/O
- Two USB 2.0 ports on front
- Two USB 2.0 ports on rear
- One DisplayPort (DP++) monitor output

FRONT PANEL
- Seven status LEDs
- Power LED

WARRANTY
- Two years

CERTIFICATIONS
- CE, ETL/cETL

LEGACY UNIT

Brompton Technology is the market leader in LED video processing for the most demanding applications across live events, virtual production, broadcast/XR, simulation/VR, fine-pitch installations and esports. The company has won multiple awards and become a globally respected brand, known for the quality and reliability of its products and exceptional technical support. For more information, visit www.bromptontech.com.

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