XPression
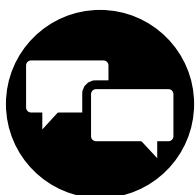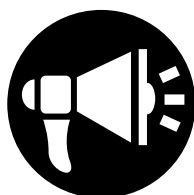

XPRESSION TESSERA ONE FOR NEWS AND STUDIO WORKFLOW

XPression Tessera One is an all-in-one solution that provides up to six million broadcast quality pixels to drive engaging content to your studio LED displays. Two live video inputs can be used with your XPression templates and scheduled as part of an XPression MOS workflow. For studio workflows without MOS, anyone can run it via the XPression Sequencer, Ross Video DashBoard Control Panels, or RossTalk commands.

INTERACT

Bring your contributors into the studio from any location. XPression Tessera One's low video input latency minimizes the audio delay and allows you to cut between talent in the video wall and talent straight from the live shot at a remote location.

STORY TELLING

Fill your video wall with graphic content or remote contributors. Dynamic visual imagery keeps your viewers engaged and expands the opportunities for using your video wall. Tell amazing stories in larger than life video walls, using a workflow you already know.
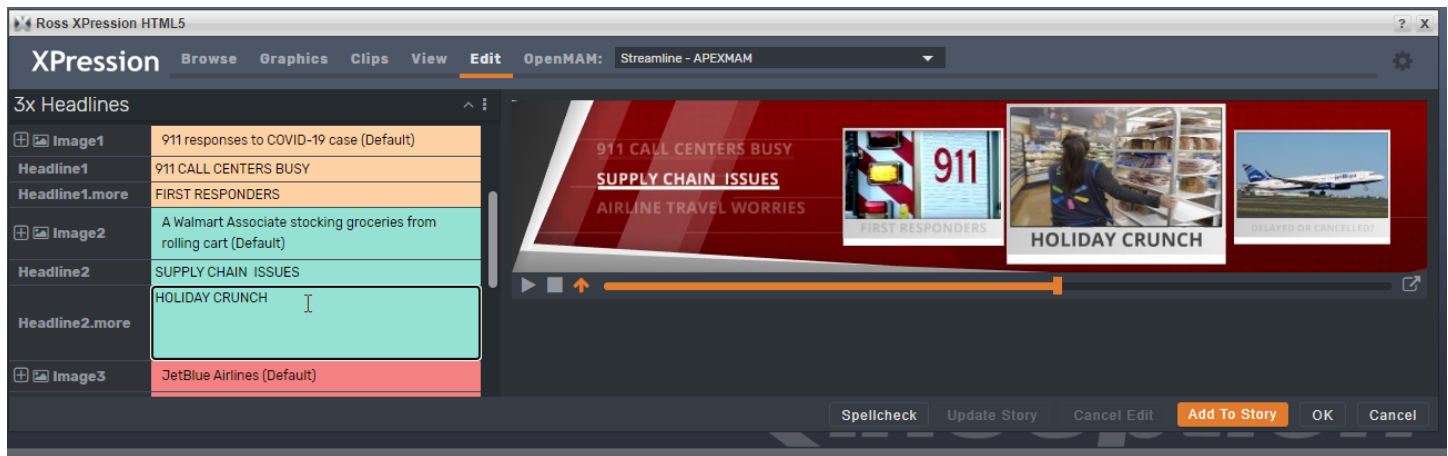
PART OF XPression MOS

XPression Tessera One is part of the XPression MOS news workflow. Use the same tools to choose a template for the video walls as you would for making an over-the-shoulder or full screen bullet graphic. Keep your team working in one platform all day long.

ROSS®
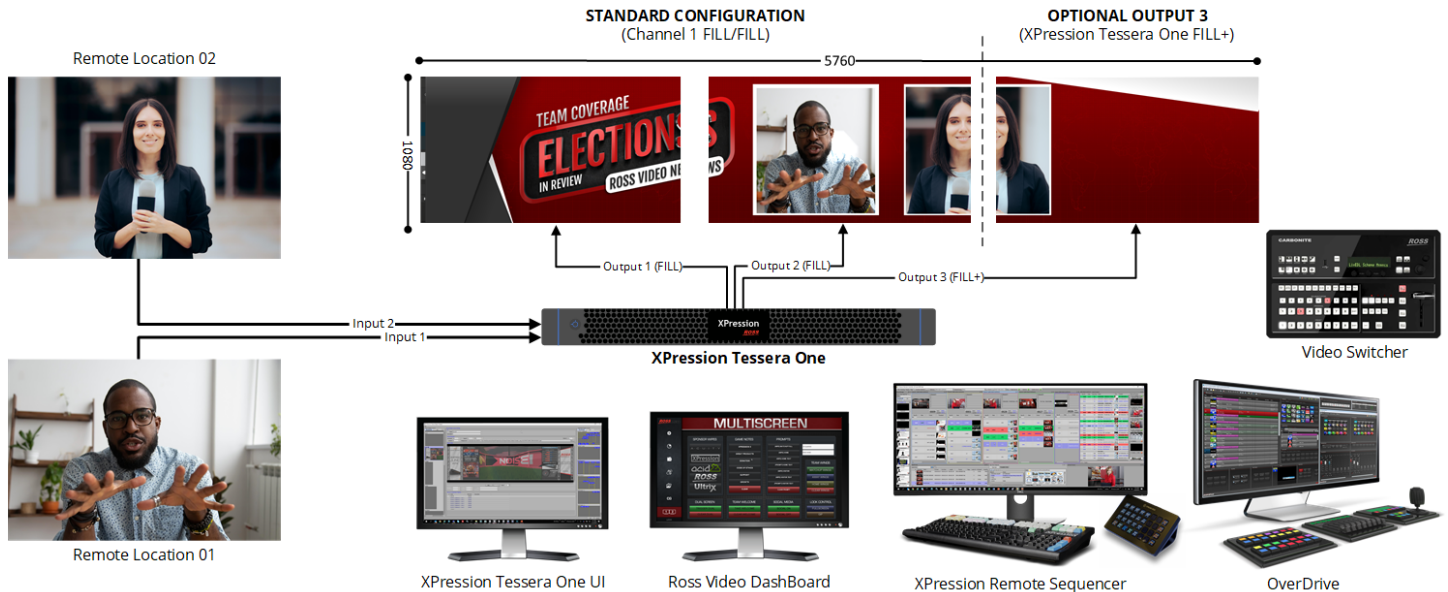LIVING LIVE!

XPRESSION MOS WORKFLOWS

For XPression MOS Workflow users, selecting an XPression Tessera One template is the same as selecting an Over-The-Shoulder (OTS) or any other template in the MOS client. Choose the template and populate it to complete the graphic and add it to the script.

This means that the newsroom users can schedule content in the video wall as part of their show duties and build content for playout which the control room team will execute as part of their rundown for the show.

LOW LATENCY VIDEO INPUT PROCESSING

Designed as an all-in-one LED content management system, XPression Tessera One utilizes a low latency video input processing function of less than three frames. This means that a video input signal passed through XPression Tessera One with graphics composited over it will not distract the viewers at home while they watch your program.

Use the power of XPression's infinite layering and XPression Tessera One region mapping to create a variety of templates for a variety of monitors. XPression Tessera One isn't just for one continuous monitor. For video displays with their own scalers, its possible to span XPression Tessera One outputs across multiple monitors, including rotated or vertical monitors.

A COMPLETE WORKFLOW SOLUTION

Whether you just need to show a cityscape video, explainer graphics, franchise graphics, or Live video inputs from remote contributors on the video wall, XPression Tessera One is the right solution. To complete your XPression Tessera One experience, Ross Video enables powerful XPression INcoder and DataLinq™ features as part of the XPression Tessera One license.

XPression INcoder software, enabled with the XPression Tessera One license, provides a watch folder-based workflow to ingest and transcode your video files into XPression Video Codec assets for use in traditional graphics content or even slicing them apart to use in ribbon boards or other XPression Tessera One regions.

XPression DataLinq™ is also part of the XPression Tessera One solution, enabling you to display data-driven graphics in real-time. Bring data sources like a Microsoft Excel spreadsheet with the newscast lineups or connect to your election results, stock data, even sports and weather scores directly, to display it all on the big screen. Operators can also utilize XPression DataLinq™ to integrate other data sources ranging from RSS, XML or JSON feeds of scores around the league or around the world.

DIMENSIONS

Height	Width	Depth
42.8 mm (1.68")	48.20 cm (18.98")	57.76 cm (22.74")

WEIGHT

Net Weight	Gross Weight (Shipped)
12.42 kg (27.38 lbs.)	19.34 kg (42.63 lbs.)

HARDWARE

Chassis	1RU Chassis (rackmount)
Power Supply	550W redundant supplies Voltage Range 100-240 VAC Input Current 7.4 A- 3.7 A
Power Consumption	Idle:150W Full load: 200W
Noise Level	Idle: 54bd, Full Load: 56db, Pitch<1000Hz
Temperature & Humidity Range	Temperature: 10–35°C (50°F–95°F) Humidity: 10% to 85% (Max dew point temperature = 40°C)
System Drives	2x 256GB SSD RAID 1 Mirrored)
Media Drives	2x 1TB SSD RAID 1 (Mirrored)
CPU	Intel Core i9-9900K, 8 Core, 16MB Cache, 3.6GHz, 5.0Ghz Turbo
Memory	16GB (2x8GB) 2666MHz DDR4 UDIMM Non-ECC
GPU	NVIDIA Quadro RTX4000, 8GB GDDR6, 2304 Cuda© Cores, 3x Display Port 1.4
Video I/O	Matrox® X.mio3/24/100/L

IMAGE FILE FORMATS

*.tga | *.tif | *.psd | *.bmp | *.jpg | *.gif | *.png

CLIP FILE FORMATS

AVI | MPEG | QuickTime | Sequential Images

3D FILE FORMATS

*.3ds | *.obj | *.fbx | *.c4d

INPUTS / OUTPUTS

Video	Up to 4 Video Outputs	2 Inputs
Audio	Embedded Audio Only
Reference	1x Analog Black Burst (Bi-Level Sync) or Tri-Level Sync input

CONTROL

Ethernet	1x RJ-45 1G Ethernet Ports 1x RJ-45 10G Ethernet Ports
GPI	RS-232 Serial GPI, RossTalk/Smart GPI through TCP/IP
USB	Front Panel: 2x USB 3.1 (Type A) 1x USB 3.1 (Type C)/iGFX Display Port Rear Panel: 2x USB 3.1 (Type C)/iGFX Display Port

INCLUDED ACCESSORIES

Rack Mount Kit	Slide rails, handles, and mounting hardware
USB	2x USB Type C to USB Type A Adapters
Keyboard	Standard USB PC Keyboard
Mouse	USB mouse
Security Key	USB key pre-installed internally
Software	XPression Software dongle

VIDEO FORMATS

480i 29.97Hz (NTSC) | 576i 25Hz (PAL) | 720p 50Hz 720p 59.94Hz | 720p 60Hz | 1080i 25Hz | 1080i 29.97Hz |1080i 30Hz | 1080p 29.97Hz | 1080p 50Hz 1080p 59.94Hz | 1080p 60Hz | 1080psf 23.976Hz 1080psf 24Hz | 1080psf 25Hz | 1080psf 29.97Hz 1080psf 30Hz | Custom Formats

INCLUDED SOFTWARE

•Microsoft® Windows® 10 Professional 64-bit O/S
•XPression software package

WARRANTY

12-Month System Warranty (parts / labor)

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ORDERING GUIDE

To order the XPression Tessera One LED Content Management System, Ross Video has simplified the part codes for a stand-alone (or Primary) system **XTS-ONE** with options for adding an additional FILL output and training and commissioning items.

XTS-ONE

XPN-1RU-XTS-ONE-M8	XPression Tessera One Hardware (1RU Chassis)	INCLUDED
XTS-ONE-0001	XPression Tessera One Software and License	INCLUDED
XTS-ONE-FILL+	XPression Tessera One Extra Fill (3rd) Output	Optional
SLE-COM-1DAY	On-site Operational Training 1-Day (T&E not included)	INCLUDED
SLE-OTR-1DAY	On-site Operational Training 1-Day (T&E not included)	INCLUDED
TRAVEL-PRE-001	Pre-Paid Travel and Expenses (quoted by Ross Video)	Optional

For customers requiring a redundancy solution, Ross Video offers the XPression Tessera One Redundant configuration option **XTS-ONE-RED**. This includes duplicate hardware, and the ability for adding redundant hardware output configurations as well as an option for XPression Project Server software for managed content distribution between the primary and redundant systems in the configuration.

XTS-ONE-RED

XPN-1RU-XTS-ONE-M8	XPression Tessera One Hardware (1RU Chassis)	INCLUDED
XTS-ONE-0001-RED	XPression Tessera One Software and License	INCLUDED
XTS-ONE-FILL+RED	XPression Tessera One Extra Fill (3rd) Output	Optional
XPN-PS	XPression Project Server (SW Only)	Optional