

XPression Laptop

Solution Brief



XPN-HW-LAPTOP-P1
Backpack not included

Real-time rendering power on the GO!

Take the powerful XPression real-time motion graphics engine anywhere you go. An expansive 18" screen and a spacious full-size Windows keyboard with a built-in numberpad provides you the capability normally only found in a rack-mounted workstation. Toss it into your backpack along with Thunderbolt framebuffers from AJA or Black Magic Design and be ready to generate 1080P fill and key channels using HD-SDI or NDI® for video productions where ever you are.

Versatile And Powerful Real-time 3D Motion Graphics Playout System

Strong enough to power single and dual channel output configurations for XPression Studio or BlueBox editions in the GO! Series, as well as XPression Tessera SE; this powerhouse laptop let's you work without compromise. The Full QWERTY (also available in French AZERTY) keyboard with the built in numberpad gives users the full experience of playout in a portable solution.

Solid and Capable Offline 3D and Motion Graphics Design System

XPression Developer and XPression Designer also work beautifully on this platform. The offline editions let the user to design and test XPression content. The offline editions of XPression let the user to design and test XPression in a cost-effective form factor and the confidence that what plays on the XPression laptop will play on their rack-mounted real-time render engines in the production control room or OBVan.

XPression
Studio GO!

XPression
Studio GO2!

XPression
BlueBox GO!

XPression
BlueBox GO2!

XPression
Prime GO!

XPression
Developer

XPression
Designer

XPression Laptop

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XPression Laptop technical specifications

GO! Series Laptop Hardware Physical Specifications

Height	1.10 inches (2.7 cm)
Width	15.88 inches (40.3 cm)
Depth	11.41 inches (28.9 cm)
Weight	7.78 lbs. (3.52 kg)



XPression GO! Series Laptop Technical Specifications

Operating System	Microsoft® Windows® 11 Professional, 64-bit
Processor	Intel Core i7-13850HX vPro (30 MB cache, 20 cores, 28 threads, up to 5.3 GHz w/ Turbo Boost)
Memory	32GB, 1x32GB 5600MT/s CAMM, non-ECC
GPU	NVIDIA RTX 4000 Ada 12GB GDDR6
Display	18.0-inch WQXGA (2560x1600) Anti-Glare, 165Hz, 500nit, for 5MP+IR
System Drive	Boot (System) Drive: 1TB PCIe-5x4 2280 NVMe Solid State Drive
Media Drive	1TB PCIe-4x4 2280 NVMe TLC 2nd Solid State Drive
Network	1x 10/100/1000 Mbps Ethernet controller integration on system board Intel BE200 Wi-Fi 7 + Bluetooth 5.4 vPro WW WLAN
Power Supply	GE Long Life 99Whr Fast Charge 8 cell Battery HP 330W Std 4.5mm PFC Smart (3-pin) AC Adapter
USB	1x USB 3.0 (Type-A) port 1x Thunderbolt 4 (USB Type-C) Port 2x Thunderbolt 5 (USB Type-C) Ports
Video	1x HDMI 2.1 Port
Audio	1x Microphone/Headphone port (Configurable)
GPI	Unlimited RossTalk™ Smart GPI over TCP/IP

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XPression GO! Mini I/O UltraStudio HD Mini



BMD-USHD-MINI



ULTRASTUDIO HD MINI I/O device physical specifications	
DIMENSIONS	5.41" (13.99 cm) 6.69" (16.99 cm) 1.75" (4.45 cm)
WEIGHT	1.34 lbs. (0.607 kg)
Operating Temperature	5° to 40° C (32° to 104° F)
Relative Humidity	0% to 90% non-condensing
Power Requirements	Powered by host PC using a Thunderbolt 3 or higher cable (not included) Requires computer with a Thunderbolt™ 3 or higher USB-C port

XPression GO! MINI series video formats	
SD to 1080p SUPPORT	525i59.94 NTSC, 625i50 PAL, 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080i50, 1080i59.94, 1080i60, 1080p50, 1080p59.94, 1080p60

XPression GO! MINI series supported video standards	
SD	SMPTE 259M
HD	SMPTE 292M, SMPTE 296M, SMPTE 372M and SMPTE 425M A/B

XPression GO! MINI series supported video I/O	
INPUT	13Gb/s SD/HD switchable Analog Y, B-Y, R-Y/NTSC/PAL
OUTPUT	2x 3Gb/s SD/HD switchable 1x HDMI 1.4b Type A connector

XPression GO! MINI series supported audio I/O	
INPUT	16 Channels embedded in SD and HD Analog 2x ¼ inch Jacks for balanced and unbalanced
OUTPUT	16 Channels embedded in SD and HD

XPression GO! AJA ioX3



XAJA-IOX3

AJA ioX3 I/O device physical specifications	
DIMENSIONS	8.25" (20.96 cm) 6.28" (15.95 cm) 1.66" (4.21 cm)
WEIGHT	1.6 lbs. (0.73 kg)
Operating Temperature	-0° to 60° C (32° to 95° F)
Relative Humidity	10% to 90% non-condensing
Power Requirements	10-20V, 23W typical, 28W max external power supply (provided)

AJA ioX3 I/O video formats	
SD to 1080p SUPPORT	525i59.94 NTSC, 625i50 PAL, 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080i50, 1080i59.94, 1080i60, 1080p50, 1080p59.94, 1080p60

AJA ioX3 I/O supported video standards	
SD	SMPTE 259M-C
HD	SMPTE 292M, SMPTE 259M-C and SMPTE 425

AJA ioX3 I/O supported video I/O	
INPUT	3Gb/s SD/HD switchable 1x HDMI 1.4b Type A connector
OUTPUT	4x 3Gb/s SD/HD switchable 1x HDMI 1.4b Type A connector

AJA ioX3 I/O audio supported I/O	
INPUT	16-channel, 16 and 24-bit SMPTE-259 SDI embedded audio 8-channel, 16 and 24-bit HDMI embedded audio
OUTPUT	16-channel, 16 and 24-bit SMPTE-259 SDI embedded audio 8-channel, 16 and 24-bit HDMI embedded audio

AJA ioX3 I/O LTC	
INPUT	1x BNC LTC input (dedicated)
OUTPUT	1x BNC LTC output (dedicated)

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XPression Laptop software and hardware compatibility matrix

XPression Channel counts ▶	Video output(s)					Video input(s)			Audio I/O		
	Single Channel HD-SDI † or ‡	Dual Channel HD-SDI ‡	Single Channel NDI® Out *	Dual Channel NDI® Out *	HDMI Output † or ‡	Single HD-SDI Input † or ‡	Dual HD-SDI Input ‡	HDMI Input †	Embedded Audio Input † or ‡	Analog Audio Input †	Embedded Audio Output † or ‡
Software edition ▼											
STUDIO GO XPN-LIC-XSTS-GO	●	■	●	■	●	●	■	●	●	●	●
STUDIO GO2 XPN-LIC-XSTD-GO	●	●	●	●	●	●	●	●	●	●	●
BlueBox GO! XPN-LIC-XBBS-GO	●	■	●	■	●	●	■	●	●	●	●
BlueBox GO2! XPN-LIC-XBBD-GO	●	●	●	●	●	●	●	●	●	●	●
PRIME GO! XPN-LIC-XPR1-GO	●	■	●	■	●	●	■	●	●	●	●
XPression Tessera SE HD GO! XPN-LIC-XTS-SE-HD-1CH-GO	●	■	●	■	●	●	■	●	●	●	●
XPression Tessera GO2! XPN-LIC-XTS-SE-HD-2CH-GO	●	●	●	●	●	●	●	●	●	●	●
XPression Designer XPN-LIC-XTS-SE-HD-2CH-GO	■	■	■	■	■	■	■	■	■	■	■
XPression Developer! XPN-LIC-XTS-SE-HD-2CH-GO	■	■	■	■	■	■	■	■	■	■	■

† Black Magic Design Ultra Studio HD Mini
 ‡ AJA ioX3
 * None required

Supported Image File Formats

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

Supported Clip File Formats

AVI | MPEG† | QuickTime† | Sequential Images

†Available in the 32-bit editions only

Warranty

12-Month System Warranty (parts / labor)

Customer Success

Ross Video has a complete range of technical services available to ensure that your XPression installation is a success.

Operational Training can be provided at Ross Video, on-site or on the web. Experienced Ross operators will teach your staff to get the most out of your new system and enhance your production.

Commissioning is a service to help get your graphics system properly configured, connected, and installed. This service is performed by factory trained Ross technical staff.

Technical Training can be provided at Ross Video, on-site or over the web. Technical training will teach your engineering staff the technical details of the system you have purchased. System configuration, interfaces, databases, and routine maintenance procedures are some of the topics covered.

XPression comes standard with a 1-year system warranty (parts / labor & software updates) and 5-Years for Hard Disk Drives. Extended Warranties on hardware and software maintenance are available for an annual fee. Technical advice is available on-line, by telephone, or email to Ross Video – Included for the life of your system.