

HDWS X1 EXPRESS (JAPAN ONLY)

EDIUS 11 Broadcast Nonlinear Editing Workstation



The HDWS X1 Express is a mid-range level desktop workstation for up to 4K editing. It comes with EDIUS® 11 Broadcast nonlinear editing software pre-installed, which enables background rendering. This turnkey system is now available for Japan.

EDIUS turnkey systems are positioned as a one-stop solution from the Grass Valley® factory that provide the best out-of-box experience and peace of mind to users, without software conflicts or hardware glitches. Grass Valley also provides optional commissioning, training and support beyond the initial 12-month (defects in materials and workmanship) warranty period.

This specifically designed workstation makes it possible to extend the support period. Unlike our low-end workstation, REXCEED, the operating system version of HDWS X1 Express can be fixed.

The system is designed for the best performance in video editing operations, including the total number of playback streams and the encoding speed.

Key Features

Workstation

- Intel Core i processor (12 cores/20 threads), 32 GB RAM
- System storage: 240 GB (1x SATA3-SSD)
- Data storage: 1,920 GB (1x M.2-NVMe-SSD)
- Windows 11 64-bit operating system
- Multimedia slots: SD card x2 (SDXC, UHS-II., Micro P2 compatible) / 2.5" SATA-SSD x2
- USB 3.2 Gen2 10 Gb/s
- Original housing with excellent maintenance
- Built-in I/O hardware (HD) that supports SDI inputs and outputs to meet professional requirements

Editing Features

- EDIUS 11 Broadcast
- Support for various 4K codecs: XAVC (Intra/Long GOP), XAVC S, AVC-Ultra, XF-AVC, 1D C Motion JPEG
- Supports resolutions from 24x24 to DCI 4K, allowing you to mix and edit material from different frame rates in real time on the same timeline
- Native support for many formats: XDCAM, P2, XF, CMF (K2 files), AVCHD, MXF, etc.
- HD preview of 4K projects

I/O

- Built-in Grass Valley STORM 3G® video I/O board with HD resolution support

Specifications

OS

Microsoft Windows 11 64-bit

Processor

Core: Intel Core-i processor (12 cores)

Threads (H/T): 20 threads

Memory

Capacity: 32 GB

Graphic

Intel graphics media accelerator

Storage

System: 240 GB (SATA3-240GB x 1)

Data: 1,920 GB (M.2-NVMe-SSD x 1)

Optical drive

Blu-ray Disc drive x 1

Sound (onboard)

6-channel high-definition audio (Realtek ALC897)

Interface

Display: DP 1.4 / HDMI 2.0

Network: RJ-45 (10BASE-T/100BASE-TX/1000BASE-T) x2

USB:

– USB 3.2 Gen 1 (5 Gb/s) x3 (Front)

– USB 3.2 Gen 2 (10 Gb/s) x4 (Rear)

Sound: Stereo mini (Line-in x1, Line-out x1, Mic-in x1)

Media Slots: SD card x2 (SDXC, UHS-II, Micro P2 compatible), 2.5" SATA-SSD x2

Power

Rated Input Voltage/Frequency: AC 100–240V, 50/60 Hz

Redundant: Redundant power supplies

Surveillance system: Input power failure detection, front panel LED indication

Power Consumption

Up to 400W

Operating Temperature Range

5°C - 35°C (41°F - 95°F)

External Dimensions

430 x 489 x 176 mm (16.9 x 19.2 x 6.9 in.) WxDxH (without rubber feet and protrusions)

19" 4 RU rackmount size

Weight

Approx. 17.0 kg (37.5 lbs.)

EDIUS version (pre-installed)

EDIUS 11 Broadcast

Accessories

– EDIUS keyboard (USB) x1

– 1x Optical scroll mouse (USB)

– 2x 3P-AC power cables

– 1 REF-TC BNC cable

– Information on Support Service Registration

Bundled Software (pre-installed)

EDIUS 11 Broadcast – Video Editing Software

QuickTitrer – Title Creation Software

Mync 11 – Content Management Software

Notes:

- Connecting IEEE 1394 Devices (such as, but not limited to FireWire, i.LINK and Lynx): Due to OS restrictions, the capture/export functions of IEEE 1394 devices and the connection to IEEE1394 devices may not work properly.
- Additional information may be included in the appendix of the user manual.
- Grass Valley does not guarantee the operation of all devices other than the accessories and optional products made by Grass Valley for various turnkey interfaces.

Video I/O Board (Grass Valley STORM 3G)

Video Input

SDI: BNC x1 (SMPTE ST 424*1/292/259-C)

Video Output

SDI: BNC x1 (SMPTE ST 424*1/292/259-C)

HDMI: Mini HDMI connector x1 (HDMI 1.3 compliant)*2

Voice Input

SDI: Embedded audio 16-channel (SMPTE ST 299/272-A)

Audio Output

SDI: Embedded audio 16-channel (SMPTE ST 299/272-A, 20/24-bit, 48 kHz locked)

HDMI: 2ch/8ch, 24-bit, 48 kHz*3

Timecode

LTC Input: BNC x1 (0.5V to 18 Vp-p, 10 kΩ)

VITC Input: Separate from SDI Input

VITC Output: Superimposed on SDI output

Reference

Input: BNC x1 (HD3 value/SD BB automatic detection)*4

Output: BNC x2 (HD3 value/SD BB switchable, x1 connected to REF in)

Remote

RS-422A (D-Sub 9-pin) x1

*1 3G-SDI is only compatible with Level B.

*2 HDCP is not supported.

*3 Only uncompressed PCM audio is supported.

*4 This is a reference signal input that acts only on the video input/output terminals on the video I/O board.



List of Video Input Devices (EDIUS 11 Broadcast)

Format	Codec	Number of bits	Container
1920x1080 60p/60i/59.94p/59.94i/50p/50i 1920x1080 30p/29.97PsF/25PsF/24p/23.98PsF 1440x1080 59.94i/50i/29.97PsF/25PsF/24p/23.98PsF 1280x720 60p/59.94p/50p 720x576 (4:3/16:9DVD) 50i 720x576 (4:3/16:9 DV) 50i 720x486 (4:3/16:9) 59.94i	Grass Valley HQ / Grass Valley HQX	8-bit	AVI/MXF
1920x1080 60i/59.94i/50i 1440x1080 59.94i/50i/29.97PsF/25PsF/24p/23.98PsF 720x576 (4:3/16:9DVD) 50i 720x576 (4:3/16:9 DV) 50i 720x486 (4:3/16:9) 59.94i	Grass Valley HQ / Grass Valley HQX	10-bit	AVI/MXF
1920x1080 59.94p/59.94i/50p/50i 1920x1080 29.97PsF/25PsF/24p/23.98PsF	AVC-Intra 100	8-bit	MXF/CMF (K2 Clip)
1920x1080 59.94i/50i	AVC-Intra 100	10-bit	MXF/CMF (K2 Clip)
1440x1080 59.94i/50i/29.97PsF/25PsF/23.98PsF	AVC-Intra 50	8-bit	MXF/CMF (K2 Clip)
1440x1080 59.94i/50	AVC-Intra 50	10-bit	MXF/CMF (K2 Clip)
1920x1080 59.94p/59.94i/50p/50i 1920x1080 29.97PsF/25PsF/24p/23.98PsF 1440x1080 59.94i/50i/29.97PsF/25PsF/23.98PsF 1280x720 50p 720x576 (4:3/16:9 DV) 50i 720x576 (4:3/16:9DVD) 50i	MPEG-2 Custom	8-bit	MXF
1920x1080 59.94i/50i 1440x1080 59.94i/50i 720x576 (4:3/16:9 DV) 50i 720x576 (4:3/16:9DVD) 50i	MPEG-2 Custom	10-bit	MXF
1920x1080 59.94p/59.94i/50i 1440x1080 59.94i/50i 1280x720 59.94p/50p 720x576 (4:3/16:9DVD) 50i	MPEG-2 for K2 Clip	8-bit	CMF (K2 Clip)
1920x1080 59.94i/50i 1440x1080 59.94i/50i 720x576 (4:3/16:9DVD) 50i	MPEG-2 for K2 Clip	10-bit	CMF (K2 Clip)
1920x1080 59.94p/59.94i/50i/29.97PsF/25PsF/23.98PsF 1280x720 59.94p/50p	XDCAM HD422 compatible	8-bit	MXF/CMF (K2 Clip)
1920x1080 59.94i/50i	XDCAM HD422 compatible	10-bit	MXF/CMF (K2 Clip)
1920x1080 59.94p/59.94i 1440x1080 59.94i/50i 1280x720 50p	XDCAM HD Compatible	8-bit	MXF/CMF (K2 Clip)
1920x1080 59.94i 1440x1080 59.94i/50i	XDCAM HD Compatible	10-bit	MXF/CMF (K2 Clip)
1920x1080 59.94p/59.94i/50i/29.97PsF/25PsF/23.98PsF 1440x1080 59.94i/50i/29.97PsF/25p/24p/23.98p 1280x720 59.94p/50p	XDCAM EX Compatible	8-bit	MXF/CMF (K2 Clip)
1920x1080 59.94i/50i 1440x1080 59.94i/50i	XDCAM EX Compatible	10-bit	MXF/CMF (K2 Clip)
1440x1080 50i	DVCPRO HD	8-bit/10-bit	AVI/MXF/CMF (K2 Clip)
720x486 (4:3/16:9) 59.94i 720x576 (4:3/16:9DVD) 50i	MPEG IMX	8-bit/10-bit	MXF/CMF (K2 Clip)
720x576 (4:3/16:9 DV) 50i	DV/DVCPRO 25/ DVCPRO 50	8-bit/10-bit	AVI/MXF/CMF (K2 Clip)

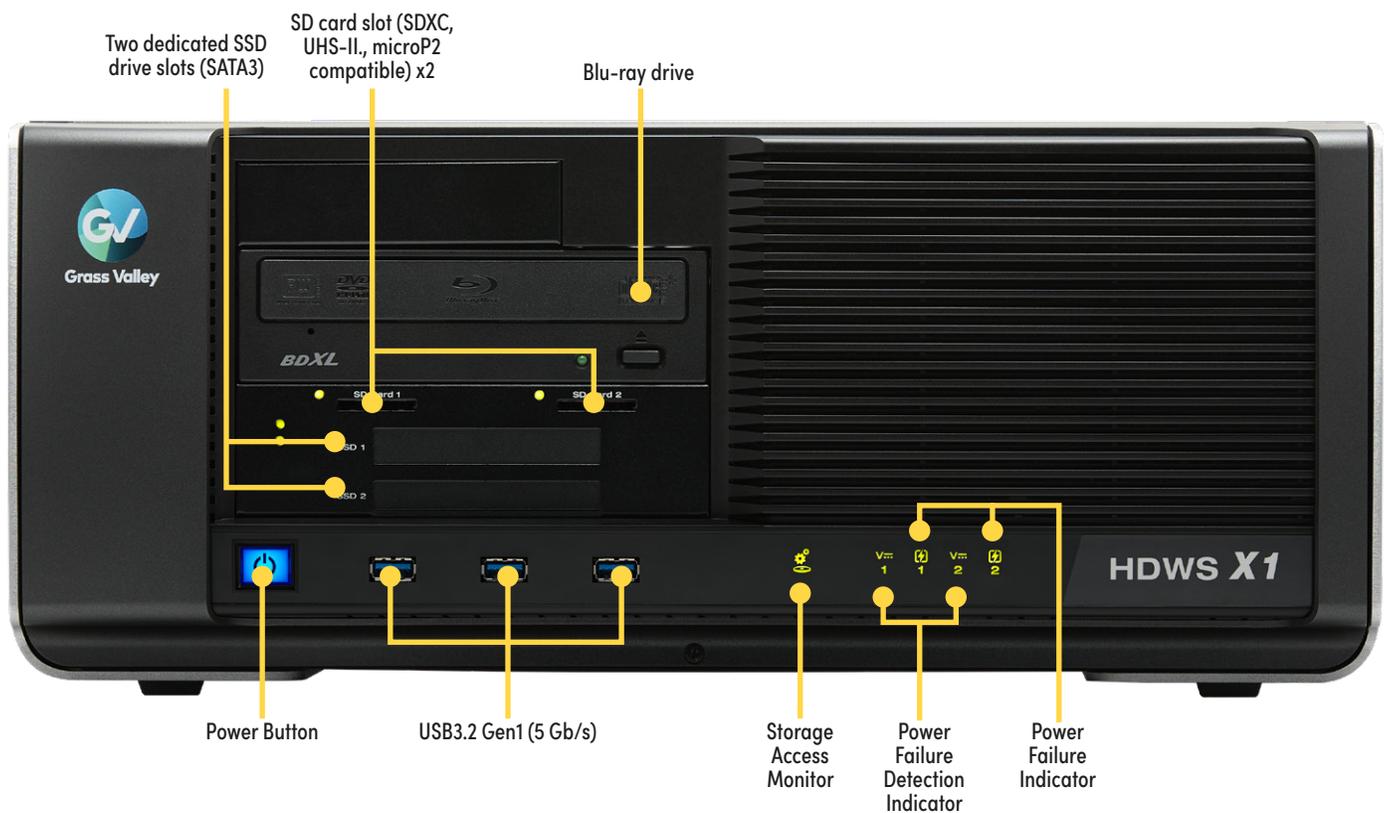
List of Video Output Devices (EDIUS 11 Broadcast)*1

Pin	Device Format	Project Format
SDI	1920x1080 59.94p/59.94i/50p/50i/24PsF/23.98PsF	1920x1080 59.94p/59.94i/50p/50i/29.97p/25p/24p/23.98p 1440x1080 59.94i/50i/29.97p/25p/24p/23.98p 1280x1080 59.94i/29.97p/23.98p
	1280x720 59.94p/50p	1280x720 59.94p/50p/29.97p/25p/23.98p 960x720 59.94p/50p/29.97p/25p/23.98p
	720x576 50i	720x576 50i/25p
	720x486 59.94i	720x486 59.94i/29.97p/23.98p 720x480 59.94i/29.97p/23.98p
HDMI	1920x1080 59.94p/59.94i/50p/50i	1920x1080 59.94p/59.94i/50p/50i/29.97p/25p/23.98p 1440x1080 59.94i/50i/29.97p/25p/23.98p 1280x1080 59.94i/29.97p/23.98p
	1280x720 59.94p/50p	1280x720 59.94p/50p/29.97p/25p/23.98p 960x720 59.94p/50p/29.97p/25p/23.98p
	720x576 (4:3/16:9) 50i*2	720x576 50i/25p
	720x480 (4:3/16:9) 59.94i*2	720x486 59.94i/29.97p/23.98p 720x480 59.94i/29.97p/23.98p

*1 Signal output on all terminals that support the output format.

*2 On monitors that cannot display interlacing, it may be displayed as progressive.

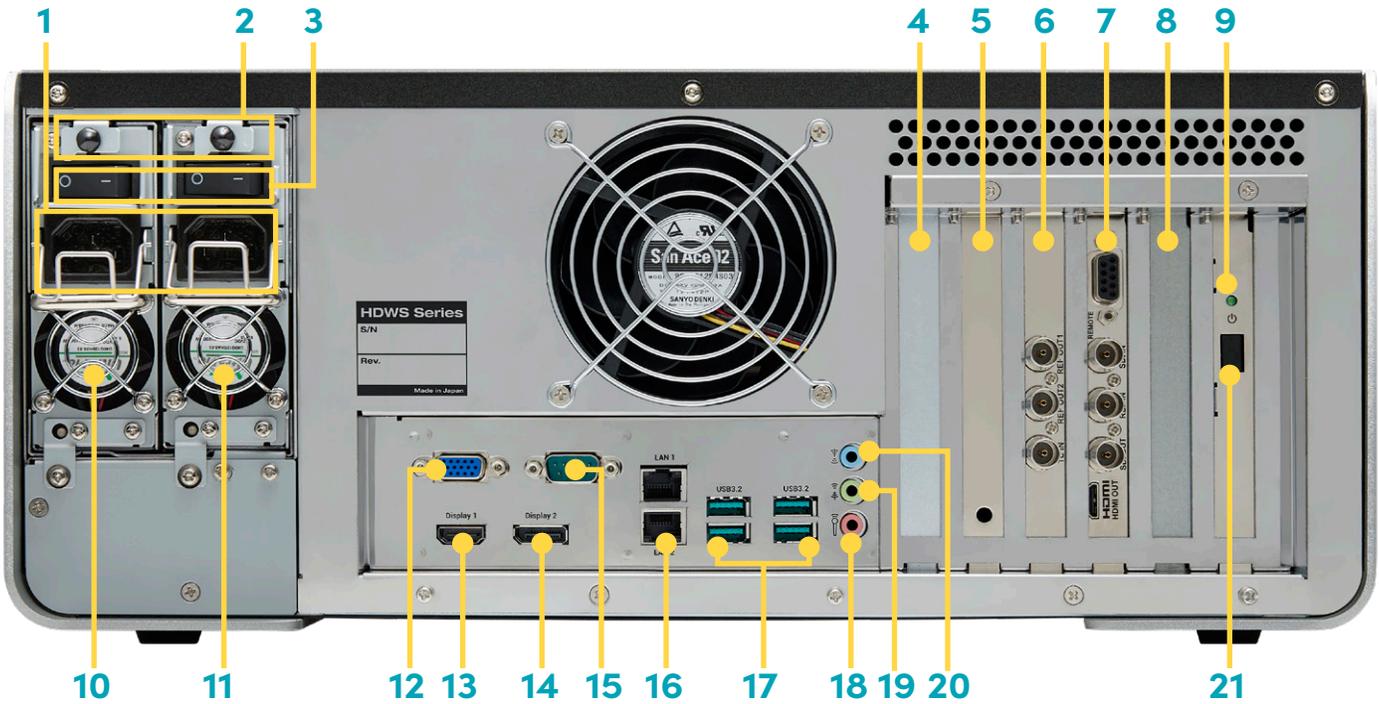
Exterior view – Front view of the workstation



Exterior view – Rear view of the workstation

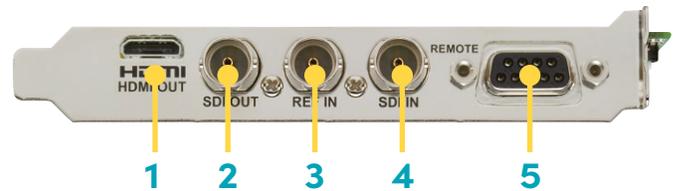
- | | | |
|---|--------------------------------|--|
| 1. Power Input Terminals | 9. Power LED Lamp | 17. USB 3.2 Gen 2 (10 Gb/s) x 4 |
| 2. Power Supply Release Lever | 10. Power Supply Unit 2 | 18. Mic In |
| 3. Main Power Switch | 11. Power Supply Unit 1 | 19. Line Out |
| 4. Free Slot (PCIe5.0 x16) | 12. Unused Terminals*1 | 20. Line In |
| 5. Media Reader Interface Board | 13. HDMI 2.0 | 21. Power Button |
| 6. Expansion Board (STORM 3G REF-TC) | 14. DisplayPort 1.4 | |
| 7. Main Board (STORM 3G) | 15. Unused Terminals*1 | |
| 8. NO PCIE SLOT | 16. RJ-45 1 GbE LAN x2 | |

*1 This product does not support connection.



External view – Video I/O board (Grass Valley STORM 3G)

- 1.** HDMI Mini Output Connector (HDMI OUT)
- 2.** SDI Output Terminal (SDI OUT)
- 3.** Reference Input Pin (REF IN)*1
- 4.** SDI Input Terminal (SDI in)
- 5.** Remote Terminal (REMOTE)



*1 This reference signal input acts only on the video input/output pins on the video I/O board.

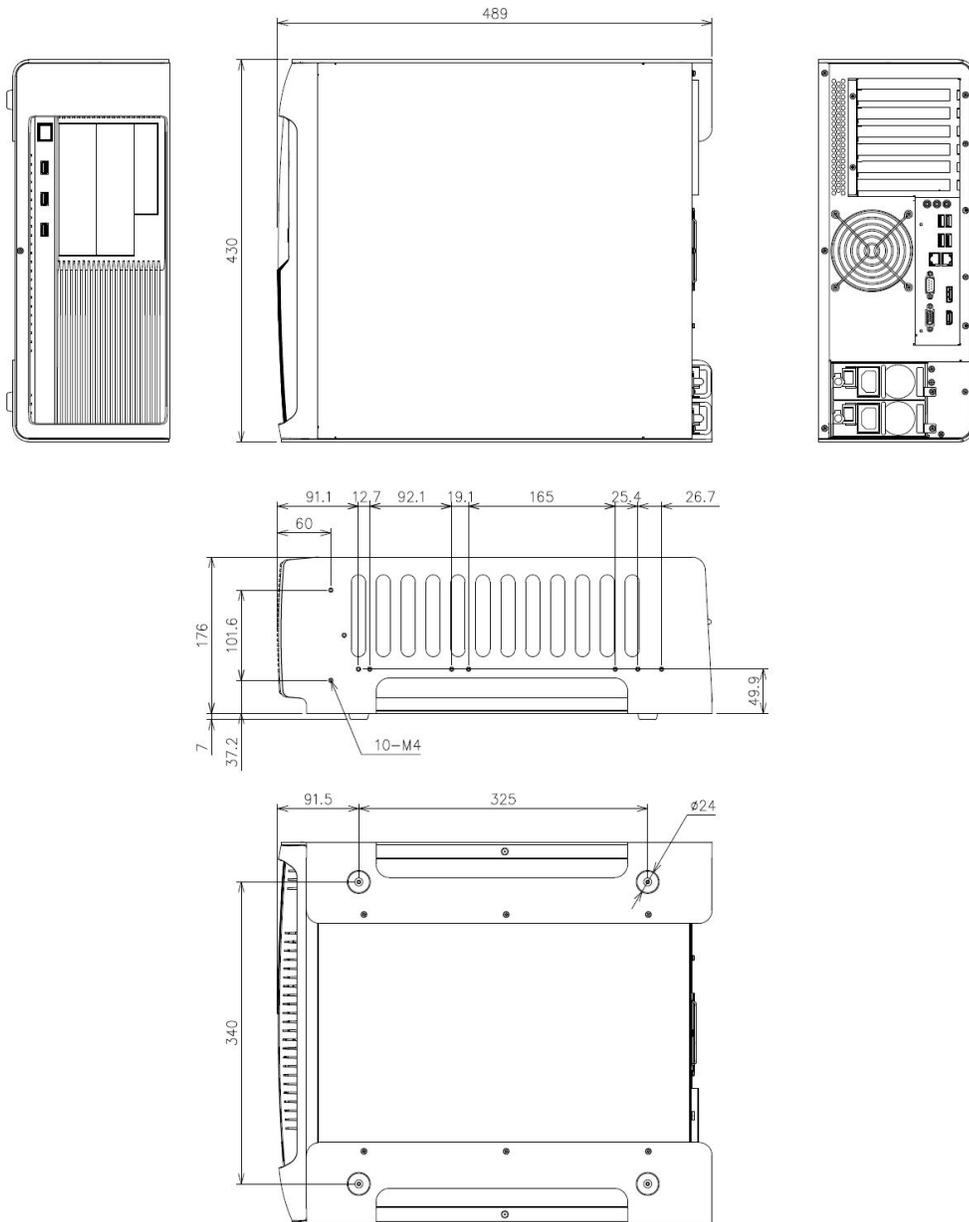
Exterior view – Expansion board (Grass Valley STORM 3G REF-TC)

- 1.** TC Input Terminal (TC IN)*1
- 2.** Reference Output Pin (REF OUT1/REF OUT2)

*1 This video on the video I/O board is superimposed on the signal from the input terminal.



Dimensions (mm)



Options

HDWSOP-RM-EAR

Rack mount bracket for HDWS, fixes the HDWS to a 19-inch rack

HDWSOP-RM-RAIL

HDWS Rackmount Sliding Rails – 19-inch rack mounting sliding rails

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

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