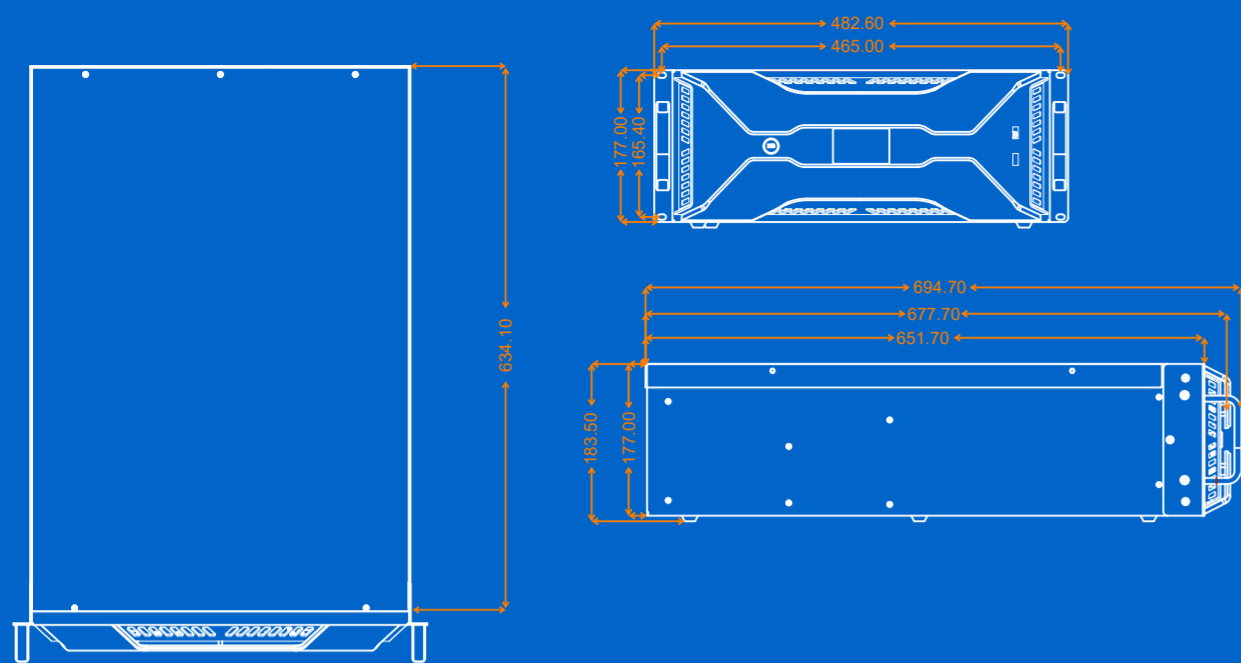


## Dimensions



## Physical Specifications

### Dimensions (with handles, rack ears & rack mount)

L 482.6 mm × P 694.7 mm × H 183.5 mm  
 W 19 inch × D 27.45 inch × H 7.2 inch  
 Please refer to the dimension diagram for more details.

### Product Weight

23.5 kg / 51.8 lbs (Fully loaded without accessories)  
 57.2 kg / 126.1 lbs (Fully loaded with accessories & flight case)

### Electrical Parameters

Power connector: 100-240V~, 10-5A, 47-63Hz  
 Max. power consumption: 650 W

### Noise on Average (typical at 25°C/77°F)

Front: 51.8 dB  
 Rear: 54.1 dB

### Operating Conditions

Temperature: 0°C to 45°C  
 Humidity: 0% RH to 80% RH, non-condensing

### Storage Conditions

Temperature: -10°C to +60°C  
 Humidity: 0% RH to 95% RH, non-condensing

### Safety Compliance



### Packing Information

- 2x DP to DP cables
- 3x HDMI to HDMI cables
- 1x AC power cable
- 1x Grounding cable
- 1x Keyboard & mouse
- 1x DVD (OS included)
- 1x Quick Start Guide
- 1x Customer Letter
- 1x Safety Manual
- 1x Certificate of Approval



www.pixelhue.com  
 info@pixelhue.com  
 +31 (0)23-303 36 82  
 Kruisweg 643-647, 2132 NC, Hoofddorp, the Netherlands

# PROFESSIONAL MEDIA SERVER

imagine  
beyond  
reality



## Superior Performance

The X400 is a brand-new professional media server engineered by PIXELHUE. Equipped with Intel's latest-generation processor, high-performance server class motherboard and graphics card, multiple input and output cards, the X400 can drive up to 6x 4K or 24x 2K mosaic outputs from a single server unit, thus delivering unprecedented high performance to your various large-scale events today.

Built on the advanced graphics card to offer remarkable hardware-decoding and rendering capabilities, the X400 easily realizes the hardware-decoding of 8K@60fps UHD videos and simultaneous smooth playback of multiple 4K@60fps videos. With the support for abundant video decoding formats, the X400 media server becomes the unparalleled video playback and processing solution for stage performances, large-scale conferences, immersive exhibitions and more creative display applications.



## Excellent Flexibility Through Modular Design

The X400 is designed with 2 input card slots and 6 output card slots and can support up to 2x 4K input cards and 4x 4K output cards simultaneously, allowing you to easily select the desired I/O modules with various input and output connectors to satisfy your visual system requirements. The modular and plug-in design also facilitates easy deployment and upgrade in the field, bringing more convenience and ease to your on-site applications.



## Stable and Reliable Control



Employing dual high-speed SSD with dual OS, dual authorization mechanism and modular design, the X400 is undoubtedly the most robust and heavy-duty solution for mission-critical applications. Moreover, on-site playback and control are always stable thanks to dual redundant configuration and seamless switching guaranteed by the frame sync technology. Extra alarm and diagnostics functionalities further help to safeguard your live events.

## Professional Media Processing

The X400 media server offers first-class media processing capability and is capable of processing a wide variety of media and video streams.

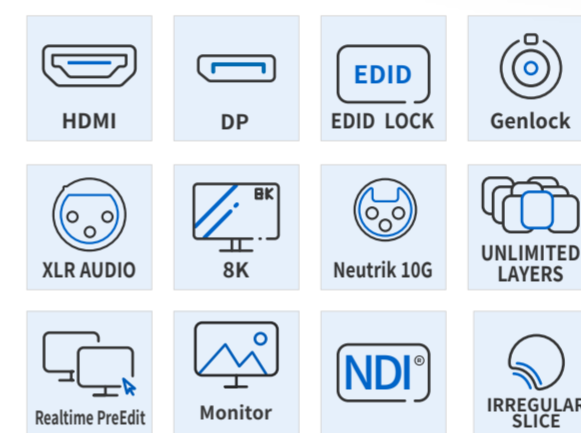
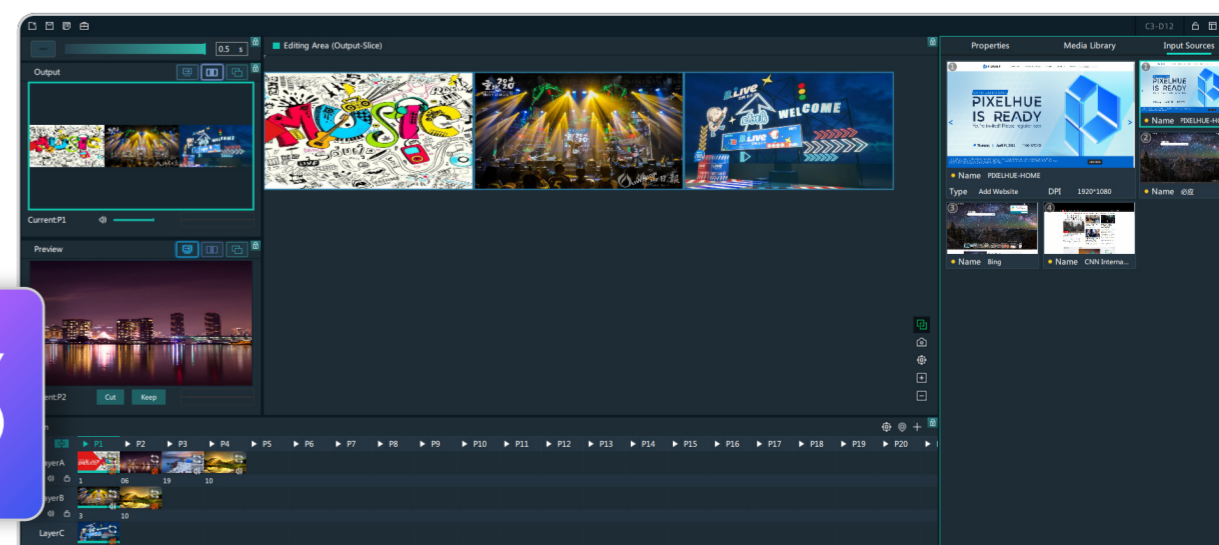
- H.263, H.264, H.265 (HEVC)
- VP6, VP7, VP8, VP9
- HAP, HAP-Alpha
- VC1
- AV1, AVS
- ProRes
- rv10, rv20, rv30, rv40
- WMV1, WMV2, WMV3
- MPEG1, MPEG2, MPEG4, MJPEG
- JPEG2000, JPEG, TIFF, BMP, GIF, PNG, PSD

## Pilot MS3 Unleash All Your Creativity

The X400 media server has a built-in multimedia playback software Pilot MS3, which is ideal for you to achieve your abundant creative ideas. Innovative irregular-shaped slices, ultra-wide videos and flawless pixel-to-pixel display make a variety of dazzling visual effects possible during spectacles or live events and let you fully unleash your wonderful ideas. Unlimited layers and programs, program jump and media collection playback, customized cross program playback, image quality adjustment, crossfade effect and more powerful features help you easily and flexibly manage and control your event display.

## UI Customized by Your Preference

Magnificent visualized design makes your operations convenient and the GUI can be customized by your preference. The media, inputs, layers, slices, real-time output preview and playback progress are all intuitive. You can see what the output will look like while the program is being edited. All our design considerations focus on shortening your learning curve and bringing you the maximum ease of use.



# X400

X MARKS THE FUTURE



# KEY FEATURES

## Software

1. Playback and real-time editing of all categories of media, including videos, pictures, audio, web pages, acquisition devices and NDI inputs
2. Various playback modes, including single program, single media, media collection, cross-program media and jump playback
3. Unlimited layers and unlimited programs
4. Irregular-shaped slices for diversified visual applications
5. Visualized management of slices, programs, playback and input sources
6. Flexible mosaic realizes your creative ideas
7. Auto preview and preview editing of next program
8. Media optimization for better media performance
9. Media image quality adjustment
10. Media mirroring, stretching, cropping supported
11. Crossfade and cut effects on program switching
12. Decoding of various mainstream video formats
13. Output mapping and markings for clear screen and connector correspondence
14. Automatic software startup and program playback
15. Project file management and packaging

## Hardware

1. 8K or multiple 4K hardware decoding and rendering for smooth playback and flawless output
2. Plug-in and modular design for higher system stability
3. Frame sync technology for synchronized and smooth display
4. Seamless primary and backup device switching safeguards your on-site operation
5. Infinite device cascading, synchronized by Genlock
6. EDID lock, ensuring no jump of connector resolution and display sequence
7. Intelligent thermal solution
8. Running status indication and fault alarm on front panel display
9. High quality XLR audio inputs and outputs
10. Central control via TCP/UDP protocol
11. 4U rack mountable chassis
12. Industrial ruggedized design

## Configuration

1. HDMI 1.4 monitoring connector dedicated for software UI
2. Dual SSD built-in with dual OS
3. Dual authorization: dongle + license

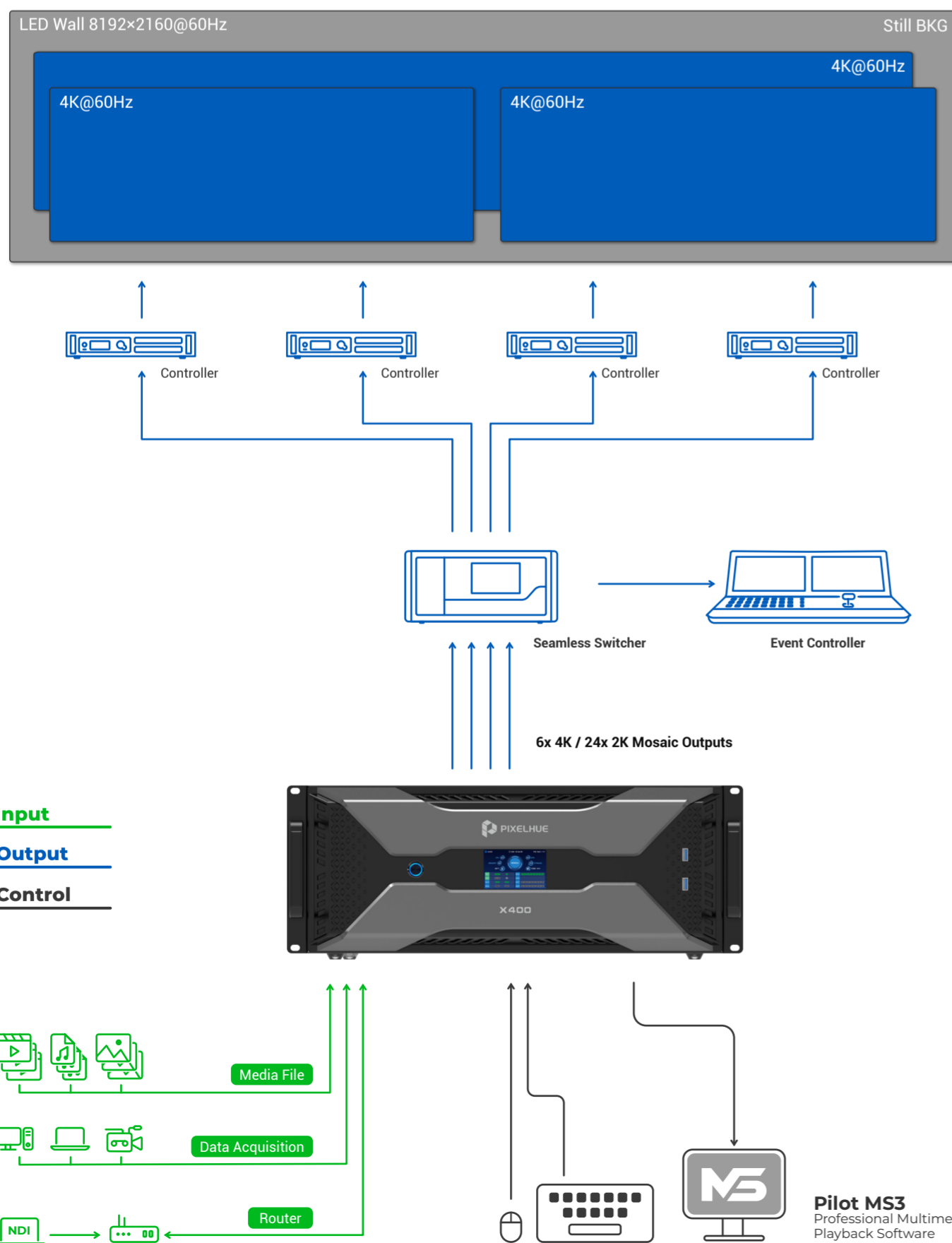
## Interactive UI

1. Fully-visualized and friendly graphical UI, what you see is what you get
2. Customizable graphical UI layout
3. UI lock for safer unattended operation

## PERFORMANCE

1. Capability
  - a. Smooth playback of 1x 8K4K@60fps video, 4x 4K2K@60fps / 6x 4K2K@30fps videos, or 15x 2K1K@30fps videos
  - b. Unlimited layers
2. Outputs
  - a. 8192x1080@60Hz/4096x2160@60Hz or 2048x1152@60Hz output card
  - b. 6x 4K or 24x 2K mosaic outputs
  - c. 4:4:4 10-bit color sampling
  - d. Genlock and frame sync card
3. Inputs
  - a. 1920x1200@60Hz or 4096x2160@30Hz input card
  - b. 4x 2K or 4x 4K inputs
  - c. NDI, streaming media and web page inputs
4. Storage
  - a. 250GB SSD, speed 2900 MB/s
  - b. 1TB SSD, speed 3500 MB/s
  - c. 2x 32GB DDR4 memory
5. Audio
  - a. XLR audio: 1x AUDIO IN, 1x AUDIO OUT L, 1x AUDIO OUT R
  - b. 1x 3.5 mm audio input, 1x 3.5 mm audio output
  - c. Formats: mp3, aac, flac, amr, ape, wav, wma, ogg
6. Networking
  - a. 1x Neutrik Gigabit Ethernet port
  - b. (Optional) 1x Neutrik Gigabit Ethernet port, 10G ready
7. Control
  - a. Built-in Pilot MS3 Professional Multimedia Playback Software
  - b. Central control via TCP/UDP protocol
  - c. 1x HDMI 1.3 connector for software UI
  - d. 2x USB on front panel, 4x USB on rear panel
8. Operating System
  - a. Windows 10 Professional OS

# APPLICATIONS



# MODULAR

## Input Card

### 4K Input Card

- 2x HDMI 2.0
  - Downwards compatible with HDMI 1.4 and HDMI 1.3
  - Max. resolution of a single connector: 4096x2160@30Hz
  - 2x 4096x2160@30Hz inputs simultaneously
  - HDCP 2.2 compliant



### 2K Input Card

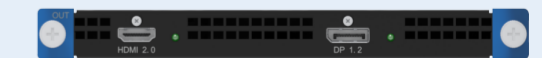
- 1x DVI
  - Max. resolution: 1920x1200@60Hz
  - Min. resolution: 800x600@60Hz
  - Interlaced signal inputs supported
- 1x 3G-SDI
  - Downwards compatible with HD-SDI and SD-SDI
  - ST-424 (3G), ST-292 (HD) and SMPTE 259 (SD) standard video inputs
  - Max. resolution: 1920x1080@60Hz
  - Interlaced signal inputs supported



## Output Card

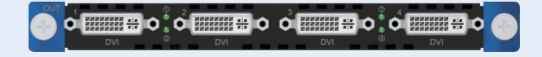
### 4K Output Card

- 1x HDMI 2.0
- 1x DP 1.2
  - HDMI 2.0 and DP 1.2 output the same content
  - Max. output resolution: 8192x1080@60Hz/4096x2160@60Hz
  - HDCP 2.2 compliant
  - Mosaic output of multiple same-type connectors



### 2K Output Card

- 4x DVI
  - Max. output resolution of a single connector: 2048x1152@60Hz
  - Max. width: 2560 pixels (2560x972@60Hz)
  - Max. height: 2560 pixels (884x2560@60Hz)
  - 4x DVI mosaic outputs (2x2) by default



### Caution

All the cards can be installed into the designed slots only. Installing a card into an incorrect slot will cause device failure. Specifications in this datasheet are subject to change without prior notice.

