Dimensions

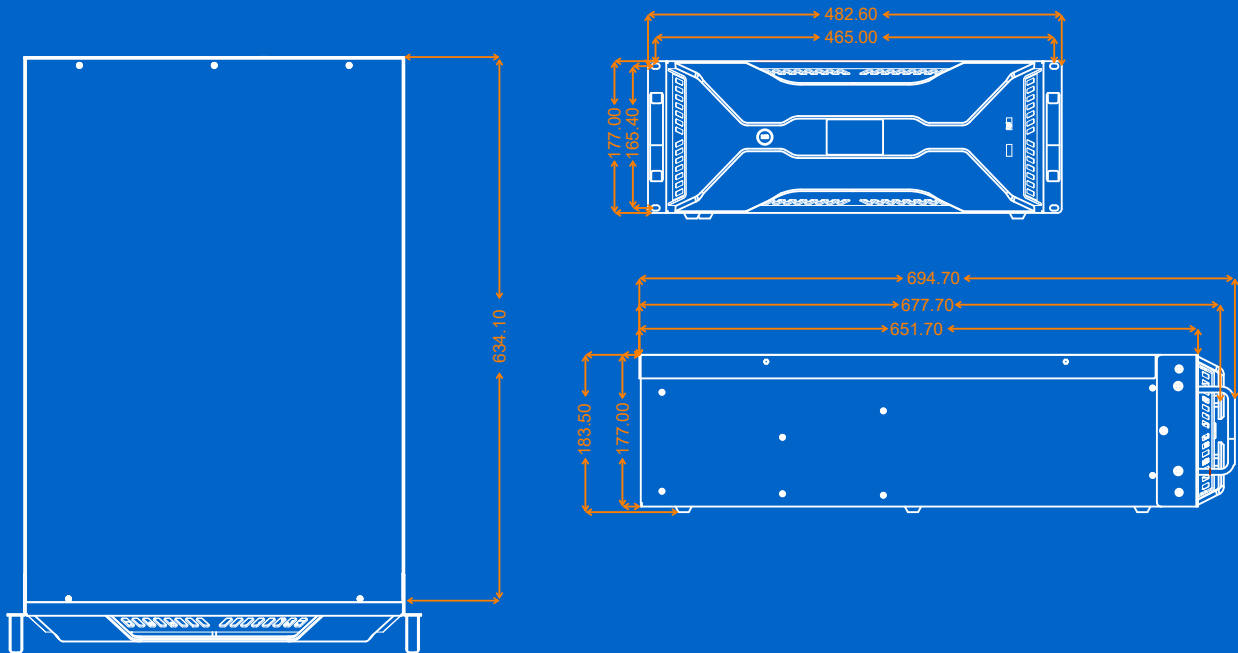## Physical Specifications

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
CE RoHS EHC ⊘ FC ⊘

Packing Information
- 2x DP to DP cables
- 3x HDMI to HDMI cables
- 1x AC power cable
- 1x Grounding cable
- 1x Keyboard & mouse
- 1x Windows product key
- 1x USB to audio adapter
- 1x Quick Start Guide
- 1x Customer Letter
- 1x Safety Manual
- 1x Certificate of Approval

HDMI | DP | EDID LOCK | Genlock
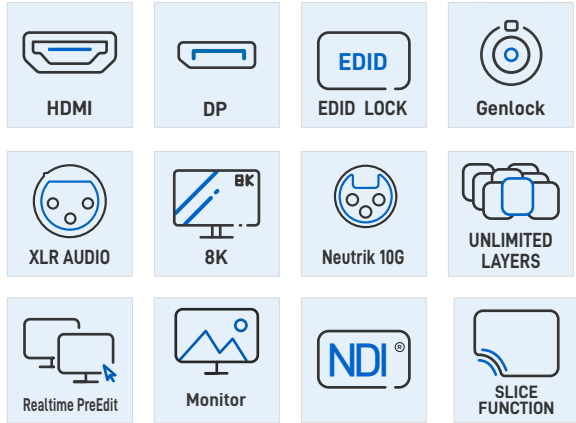XLR AUDIO | 8K | Neutrik 10G | UNLIMITED LAYERS
Realtime PreEdit | Monitor | NDI | SLICE FUNCTION

X400
X MARKS THE FUTURE

imagine
beyond
reality

PROFESSIONAL MEDIA SERVER

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

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 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.
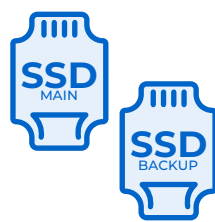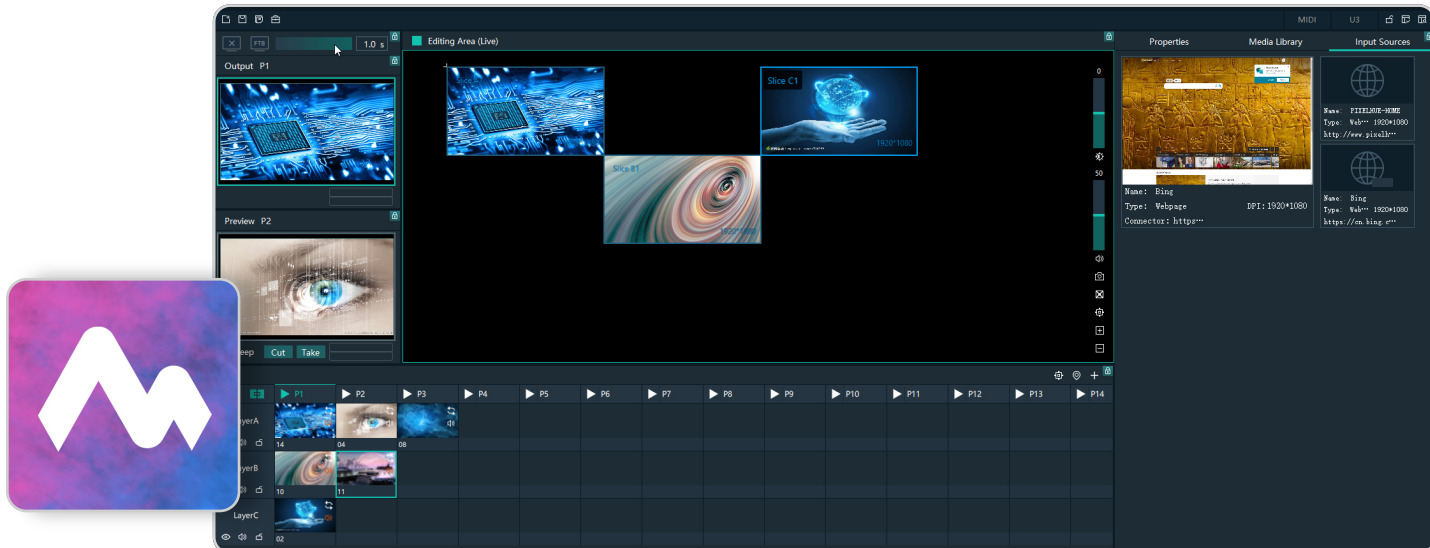
Pilot MS3 Unleash All Your Creativity

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 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.

KEY FEATURES

Software

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

Hardware

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

Configuration

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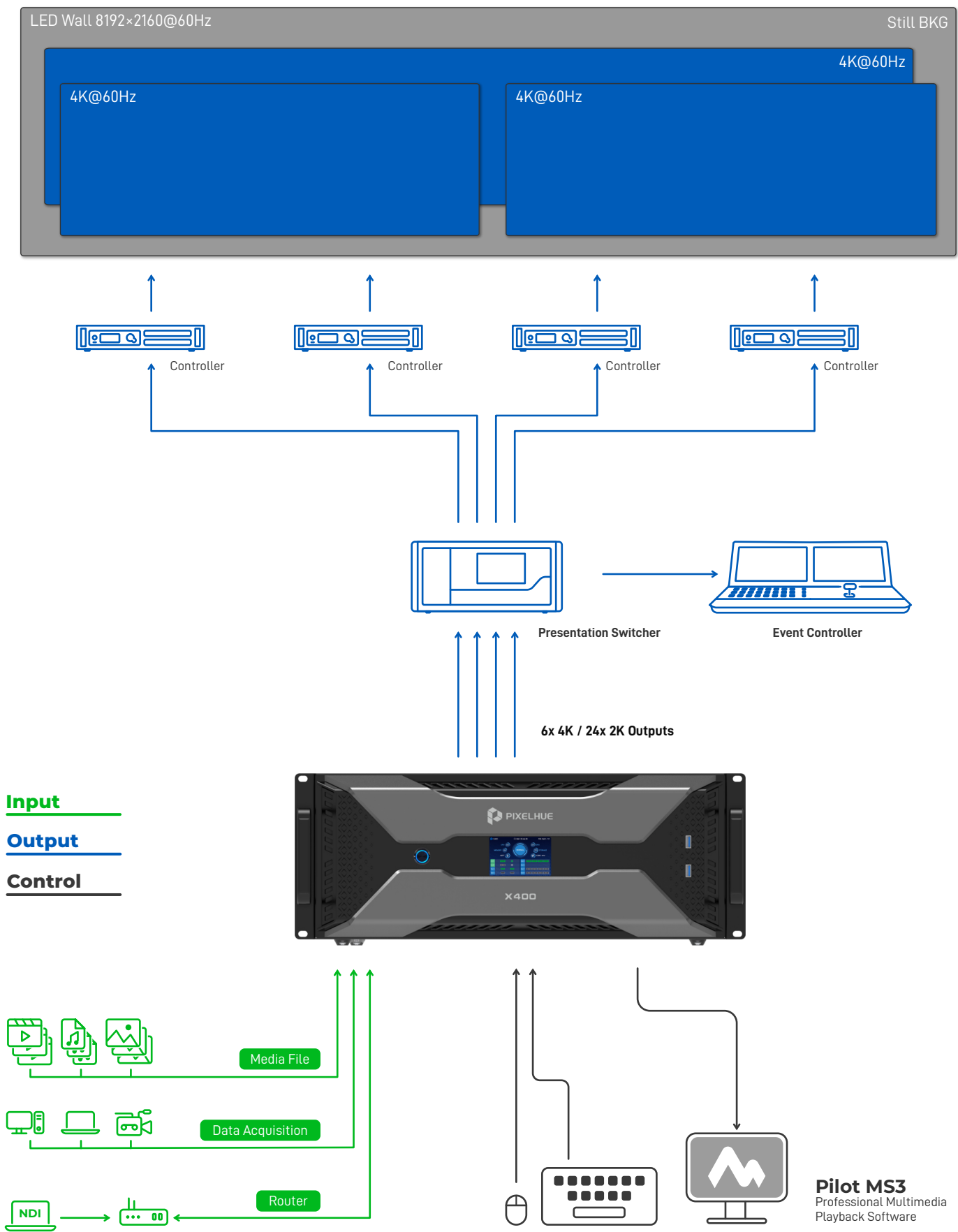- Dual authorization: dongle + license

Interactive UI

- Fully-visualized and friendly graphical UI, what you see is what you get
- Customizable graphical UI layout
- 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. 8192×1080@60Hz/4096×2160@60Hz or 2048×1152@60Hz output card
   b. 6x 4K or 24x 2K outputs
   c. 4:4:4 10-bit color sampling
   d. Genlock and frame sync card

3. Inputs
   a. 1920×1200@60Hz or 4096×2160@30Hz input card
   b. 4x 2K or 4x 4K inputs
   c. NDI, streaming media and web page inputs

4. 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

5. 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

APPLICATIONS

MODULAR

Input Card

4K Input Card

- 2x HDMI 1.4
  - Downwards compatible with HDMI 1.3
  - Max. resolution of a single connector: 4096×2160@30Hz
  - Max. output width: 4096@30Hz; Max. output height: 4096@30Hz
  - 2x 4096×2160@30Hz inputs simultaneously
  - HDCP 2.2 compliant

2K Input Card

- 1x DVI
  - Max. resolution: 1920×1200@60Hz
  - Max. output width: 1920@60Hz; Max.output height: 1920@60Hz
  - Min. resolution: 800×600@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: 1920×1080@60Hz
  - Max. output width: 1920@60Hz; Max. output height: 1920@60Hz
  - Interlaced signal inputs supported

Output Card

4K Output Card

- 1x HDMI 2.0
  - Max. output width: 8192@60Hz; Max.output height: 7680@60Hz
- 1x DP 1.2
  - HDMI 2.0 and DP 1.2 output the same content
  - Max. output resolution: 8192×1080@60Hz/4096×2160@60Hz
  - Max. output width: 8192@60Hz; Max. output height: 7680@60Hz
  - HDCP 2.2 compliant
  - Mosaic output of multiple same-type connectors

2K Output Card

- 4x HDMI 1.3
  - Max. output resolution of a single connector: 2048×1152@60Hz
  - Max. width: 2560 pixels (2560×972@60Hz)
  - Max. height: 2560 pixels (884×2560@60Hz)
  - 4x HDMI 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.