

Picturall Quad Mark II

Ref. MSQ04-MKII-R1



Heavy-duty 8K media server with four 4K60 10-bit outputs. Designed for large scale events and installations requiring high levels of performance and stability



High video playback performance

Picturall Quad Mark II is a powerful media server with same core features as its larger siblings of the Picturall series. It has enough performance for large scale installations and events as a standalone unit but is also perfect companion for Analog Way live presentation video processors. Four 4K@60Hz 10-bit outputs, high playback performance up to 8K resolution and flexible input options make **Picturall Quad Mark II** a powerful and versatile video playback and processing solution for corporate events, sports venues, large theaters or medium scale LED video wall installations.

Rock-solid reliability

Built on Analog Way's long experience in ruggedized image processing hardware, the Picturall series of media servers has been designed to provide a robust, heavy-duty platform and deliver optimized uptimes and durability for any mission critical applications. **Picturall Quad Mark II** is based on the rock-solid software Linux engine by Picturall renowned for its extreme reliability, which is a result of 15 years of R&D development and field experience.

Powerful features

Picturall Quad Mark II offers all the tools you need to creatively integrate the solution that your customer has envisioned. Features like automatic show start, custom resolutions and virtual displays, parallel cue lists, cue tracking, timecode-based cue triggering, cue scheduling, real-time effects, crossfades between clips as well as multi-user control, give you flexibility in programming and control.

Flexible setup and control

The **Picturall Commander** software is an intuitive, elegant and powerful user interface to configure and control the Picturall series of media servers. **Picturall Quad Mark II** offers IP (Ethernet) and ArtNet interfaces which enable easy integration with any third-party control systems. **Picturall Quad Mark II** is also compatible with various remote control software such as Universe or Companion.



Advanced media processing

Picturall Quad Mark II has been designed to offer the best image quality and to process a wide variety of network streams and media including:

- AWX, AWX HQ and AWX alpha (proprietary high-performance codec with unlimited media width and height) - free encoder plugin available for Adobe Creative Cloud
- HAP, HAP-Q, HAP Alpha and HAP-Q Alpha
- Apple™ ProRes (any version including ProRes 4444)
- NotchLC™
- MPEG1, MPEG2, MPEG4, MJPEG
- H.264, H.265
- Newtek™ NDI 4.5 live video streaming
- JPG, TGA, TIFF, BMP, GIF, PNG with alpha channel
- Uncompressed image sequences (TGA, DPX, BMP)



Picturall Quad Mark II at a glance

- ▶ Heavy-duty ruggedized 4RU chassis
- ▶ Four 4K@60Hz 10-bit outputs
- ▶ Up to 24 inputs (HDMI 1.4, HDMI 2.0, 3G-SDI)
- ▶ 8K playback performance
- ▶ Flexible integration with 3rd party control systems
- ▶ Rock-solid media server Linux software engine
- ▶ 3-year standard warranty

	Twin Compact Mark II	Quad Compact Mark II	Quad Mark II	Pro Mark II
Outputs	2	4	4	4 (up to 16)
Inputs	Up to 8	Up to 8	Up to 24	Up to 24
LAN	2x 1Gb/s	2x 10Gb/s	2x 10Gb/s	2x 10Gb/s
Storage	480GB SSD	1TB NVMe	1TB NVMe	2TB NVMe
Storage options	Up to 8TB	Up to 8TB	Up to 8TB	Up to 32TB
Size	2U	2U	4U	4U

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Extensive input options

Picturall Quad Mark II can be equipped with up to six low-latency input cards allowing to capture either 24x 1080p@60Hz or 6x 4K@60Hz sources. A wide selection of input interfaces is available, supporting one or more channels of 3G-SDI, HDMI 1.4 or HDMI 2.0, and offering professional connectivity for even greater reliability. Picturall Quad Mark II can also receive several network video streams (RTSP, RTMP, SRT and UDP) and is compatible with Newtek™ NDI and NDI/HX live video streaming. It can also display HTML-based web content with full Java script support.

Multi-channel audio processing

Picturall Quad Mark II offers synchronized multi-channel audio playback and supports real-time audio de-embedding and routing from HDMI or SDI sources, network streams and Chromium sources. Picturall Quad Mark II features several optional audio interfaces, including one with 2 balanced XLR inputs and 2 balanced XLR outputs, as well as a 32-channel Dante™ audio interface delivering instant access to any audio devices on the network. Picturall Quad Mark II is also compatible with a wide variety of 3rd party multi-channel USB interfaces.

Faster networking

Picturall Quad Mark II offers high network bandwidth with two standard 10Gb/s ports for faster transmission of massive media files and for more networked video streams (H264, NDI...). Two additional 1Gb/s ports and/or one additional 10Gb/s port can be installed as option for even more flexibility with your network configuration.

High-performance storage

Picturall Quad Mark II comes standard with a 1TB NVMe™ read-intensive professional drive, offering consistent performance and reliability for demanding 24x7 environments. Built with PCIe® Gen4 x4 interface, the drive can deliver a read rate of up to 5.2GB/s. Several storage options are available from 2TB up to 8TB (with one or two NVMe™ drives), capable of providing even more performance and storing several hours of uncompressed 4K video content.

Compatible with DPH104 image processor

Picturall Quad Mark II is compatible with Analog Way DPH104 image processor able to convert one 4K DisplayPort output to four 1080p HDMI outputs. It is therefore possible to drive up to 16 perfectly synchronized full HD outputs from a single Picturall Quad Mark II server.



Optional audio interface with balanced XLR inputs and outputs

Up to six low-latency input cards including 3G-SDI, HDMI 1.4 and HDMI 2.0
The 2 left slots can also host an optional 10Gb/s or a 2x 1Gb/s network card



Optional redundant, hot-swappable power supplies

2x 10Gb/s Ethernet

Four 4K@60Hz 10-bit DisplayPort outputs

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Picturall quad-output media servers drive a 340 m² LED wall for Puccini's Tosca in a Roman quarry in St Margarethen (Austria)



Picturall Quad media server drives LED video display at Hospitalized Children's Hospital's Media Production Facility (USA)

Picturall Quad Mark II

KEY FEATURES

- Runs on custom and optimized Linux operating system
- Four 4K@60Hz 10-bit outputs
- Up to 24 inputs (HDMI 1.4, HDMI 2.0, 3G-SDI) with Neutrik connectors
- Pixel accurate synchronization between all outputs
- Custom output resolutions and virtual display feature for LED walls
- Programmable outputs and layers positioning, rotation, color correction, warping, blending and more...
- Soft-edge blending of multiple projectors
- EDID support
- Unlimited media width and height with AWX codec (limited only by hardware performance)
- High video playback performance: playback of up to 8 layers of 4K@60Hz video or 2 layers of 8K@60Hz video (with AWX codec)
- Uncompressed playback up to 4K@60Hz 10-bit
- Apple™ ProRes authorized product
- 2x 10Gb/s Ethernet
- HTML browser input for layers
- Support for Newtek™ NDI (version 4.5) live video streaming
- Support for RTSP, RTMP, SRT and UDP network streams
- 36 real-time effects including comprehensive keying options
- Use the included Picturall commander software for complete control of your event
- Flexible integration with 3rd party control systems
- Flexible cue-based show programming with cue tracking feature
- Supports external LTC and MTC signal controlled cue triggering (external USB audio card required)
- Supports server internal timecode formats: system wallclock, timecode generator, media playback
- Supports scheduling for single and repeating events based on time and date
- Support for single-layer crossfades on every layer
- Automatic show start on boot
- Multi-user control
- Ruggedized, rack mountable 4RU chassis
- Easy access to front fans and filter for swift cleaning
- 3-year standard warranty, extendable to 5 years

Dimension (in Rack Units - RU)

- ▶ 4RU

Dimensions (without rack ears and rear rack mount)

- ▶ W 17.30" x H 6.97" x D 25.39"
- ▶ L 440 mm x H 177 mm x P 645 mm

Dimensions (with handles)

- ▶ W 18.97" x H 6.97" x D 27.32"
- ▶ L 482 mm x H 177 mm x P 694 mm

Weight without accessories

- ▶ 20 kg / 44 lbs

Shipping weight accessories included

- ▶ 25 kg / 55.11 lbs

Operating conditions

- ▶ Temperature: 0 to 40°C (32 to 104°F)
- ▶ Humidity: 10% to 80%, non-condensing

Noise (@ 1,6m height @25°C)

- ▶ Front: 45 DBa@1m
- ▶ Rear: 44 DBa@1m

Thermal dissipation

- ▶ 1024 BTU/hr

Warranty

- ▶ 3-year warranty on parts and labor back to factory

Power supply

- ▶ 100-240 VAC 50/60Hz 12,6-6A
- ▶ Max consumption: 300 W

Dual redundant power supply (option)

- ▶ 100-240 VAC 12-7A 50-60Hz (not for china)
- ▶ 200-240 VAC 7A 50-60Hz (only for china)
- ▶ Max consumption: 300W

Safety Compliance

- ▶ IEC/UL/EN 62368-1
- ▶ CSA22.2#62368-1

Supplied with

- ▶ 1 x Power supply cord
- ▶ 1 x Remote Control Software
- ▶ 1 x Rackmount kit
- ▶ 1 x Ethernet cross cable (for device control)
- ▶ 1 x User manual (PDF)
- ▶ 1 x Quick start guide including safety instructions

OUTPUTS

- 4 x DisplayPort 1.2 outputs
- Output resolution up to 4096 x 2160@60Hz 10-bit
- Full 4:4:4 color sampling
- Compatible with DPH104 image processor and with EXT-DP12-OPT DisplayPort over Fiber extender

SUPPORTED MEDIA FORMATS

- AWX, AWX HQ and AWX alpha (proprietary high-performance codec) - free plugin available for Adobe CC HAP, HAP-Q, HAP Alpha and HAP-Q Alpha
- Apple™ ProRes (any version including ProRes 4444)
- NotchLC™ (NotchLC is a product of 10bitFX Limited - www.notch.one)
- MPEG1, MPEG2, MPEG4, MJPEG
- H.264, H.265
- JPG, TGA, TIFF, BMP, GIF, PNG with alpha channel
- Uncompressed image sequences (TGA, DPX, BMP)
- HTML-based web content with full Java script support

PERFORMANCES

- Up to 200 layers
- Typical playback of up to 48 layers of 1080p@60Hz video or 8 layers of 4K@60Hz video or 2 layers of 8K@60Hz video (with AWX codec)
- Uncompressed playback up to 4K@60Hz 10-bit
- Canvas size up to 32k pixels across

MEDIA STORAGE

- 1x 1TB read-intensive PCIe-NVMe drive - Read rate: 5.2 GB/s
- 2TB, 4TB and 8TB storage options available - based on 1 or 2 larger capacity PCIe-NVMe drive(s)

AUDIO

- Multi-channel audio playback and routing (up to 32 ch.)
- Real-time audio de-embedding from HDMI & SDI sources, network streams and web sources
- Optional audio interface with 2 balanced XLR inputs and 2 balanced XLR outputs
- Optional 32 channels Dante™ audio interface
- Support optional multichannel audio interfaces via USB
- Audio formats: wav, mp2, aac

INPUTS AND NETWORK STREAMS

- Up to six optional low latency input cards:
 - 2x HDMI 1.4, 4x HDMI 1.4, 1x HDMI 2.0, 2x HDMI 2.0, 2x 3G-SDI, 4x 3G-SDI
- Network streams (RTSP, RTMP, SRT and UDP)
- Newtek™ NDI 4.5 live video streaming

CONTROL

- Picturall Commander user interface software
- TCP/IP, ArtNet

NETWORKING

- 2x 10Gb/s Ethernet (Ethercon CAT 6a RJ45)
- Option: 2x 1Gb/s and/or 1x 10Gb/s

SYSTEM

- 256GB NVMe system drive with optimized Linux OS
- 8-Core CPU (3.2GHz) - 32GB DDR4 RAM - PCIe gen. 4.0
- 4x USB 3.0 (2 in the front, 2 in the rear)

 Specifications subject to change without prior notice

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