

# Picturall Quad Compact Mark II

Ref. MSQC04-MKII-R1



**Heavy-duty, compact 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 Compact Mark II** is a compact 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 switchers. Four 4K@60Hz 10-bit outputs, high playback performance up to 8K resolution and flexible input options make **Picturall Quad Compact Mark II** a powerful and versatile video playback and processing solution for corporate events, architectural installations, 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 Compact 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 Compact 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 Compact Mark II** offers IP (Ethernet) and ArtNet interfaces which enable easy integration with any third-party control systems. **Picturall Quad Compact Mark II** is also compatible with various remote control software such as Universe or Companion.



Supported by  
**Companion**



supported by  
**universe**

## Advanced media processing

**Picturall Quad Compact 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 5.0 live video streaming (input/output)
- JPG, TGA, TIFF, BMP, GIF, PNG with alpha channel
- Uncompressed image sequences (TGA, DPX, BMP)



### Picturall Quad Compact Mark II at a glance

- ▶ Heavy-duty ruggedized compact 2RU chassis
- ▶ Four 4K@60Hz 10-bit outputs
- ▶ Up to 8 inputs (HDMI 1.4, HDMI 2.0, 3G-SDI)
- ▶ 8K playback performance
- ▶ Flexible integration with 3<sup>rd</sup> 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 16TB	Up to 16TB	Up to 32TB
Size	2U	2U	4U	4U

# Picturall Quad Compact Mark II

## Extensive input options

Picturall Quad Compact Mark II can be equipped with one or two low-latency input cards allowing to capture either 8x 1080p@60Hz or 2x 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 Compact Mark II can also receive several network video streams (RTSP, RTMP, SRT and UDP) and is compatible with Newtek™ NDI live video streaming (input/output). It can also display HTML-based web content with full Java script support.

## Multi-channel audio processing

Picturall Quad Compact 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 Compact 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 Compact Mark II is also compatible with a wide variety of 3<sup>rd</sup> party multi-channel USB interfaces.

## Faster networking

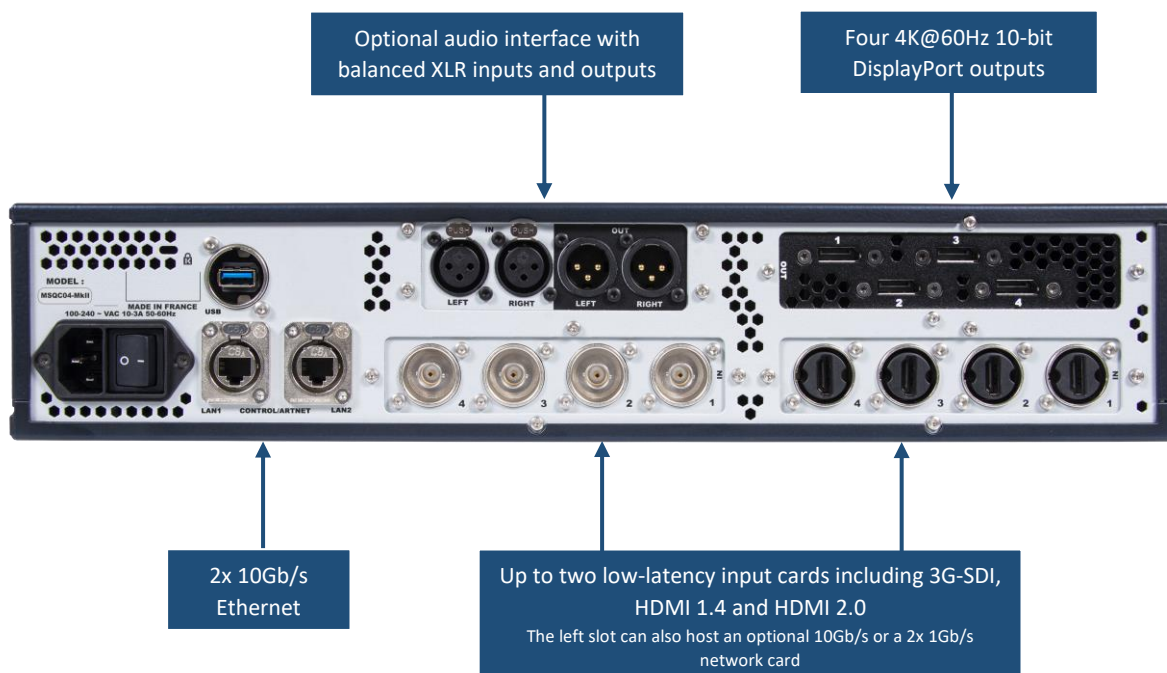
Picturall Quad Compact Mark II offers high network bandwidth with two standard 10Gb/s ports for faster transmission of massive media files and for more networked video streams (H264, NDI...). Two additional 1Gb/s ports or one additional 10Gb/s port can be installed as option for even more flexibility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

## High-performance storage

Picturall Quad Compact 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 5.2 GB/s. Several storage options are available from 2TB up to 16TB (with one or two NVMe™ drives), capable providing even more performance and storing several hours of uncompressed 4K video content.

## Compatible with DPH104 image processor

Picturall Quad Compact 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 Compact Mark II server.



# Picturall Quad Compact Mark II



Picturall quad-output media servers drive a 340 m<sup>2</sup> 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 Compact Mark II

## KEY FEATURES

- Runs on custom and optimized Linux operating system
- Four 4K@60Hz 10-bit outputs
- Up to 8 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)
- Typical playback up to 38 layers of 1080p@60Hz video or 10 layers of 4K@60Hz video or 2 layers of 8K@60 video (with AWX codec and the 2 NVME drive option in RAID-0 configuration)
- Uncompressed playback up to 4K@60Hz 10-bit
- Apple™ ProRes authorized product
- 2x 10Gb/s Ethernet (etherCON CAT 6a RJ45)
- HTML browser input for layers
- Support for Newtek™ NDI (version 5) live video streaming (input / output)
- Support for RTSP, RTMP, SRT and UDP network streams
- Flexible cue-based show programming with cue tracking feature
- Supports external LTC and MTC signal controlled cue triggering (external USB audio card or optional XLR stereo input/output interface required)
- Supports server internal timecode formats: system wallclock, timecode generator, media playback
- Supports scheduling for single and repeating events based on time and date
- Sync layer timecode with another Picturall server over network
- Support for multiple simultaneous audio cards and audio output channel routing
- Support for single-layer crossfades on every layer
- 36 real-time effects including comprehensive keying options
- Back up and synchronize the show to one or more Picturall media servers
- Automatic show start on boot
- Use the included Picturall commander software for complete control of your event
- Flexible integration with 3rd party control systems
- Multi-user control
- Ruggedized, compact rack mountable 2RU chassis
- Easy access to front fans and filter for swift cleaning

### Dimension (in Rack Units - RU)

- ▶ 2RU

### Dimensions (without rack ears and rear rack mount)

- ▶ W 17.30" x H 3.46" x D 25.20"
- ▶ L 440 mm x H 88 mm x P 640 mm

### Dimensions (with handles)

- ▶ W 18.97" x H 3.46" x D 26.77"
- ▶ L 482 mm x H 88 mm x P 680 mm

### Weight without accessories

- ▶ 14.2 kg / 31.30 lbs

### Shipping weight accessories included

- ▶ 19.7 kg / 41.88 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
- ▶ Extendable to 5 years

### Power supply (standard)

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

### 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
- Streaming NDI output with alpha channel (up to 10 Gb/s)
- 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 JavaScript support

## MEDIA STORAGE

- 1x 1TB read-intensive PCIe-NVMe drive - Read rate: 5.2 GB/s
- 2TB, 4TB, 8TB and 16TB 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 two 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 5.0 live video streaming

## CONTROL

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

## NETWORKING

- 2x 10Gb/s Ethernet (system requires at least 1GB network to maintain a stable connection)
- Option: 2x 1Gb/s or 1x 10Gb/s

## SYSTEM

- 256GB NVMe system drive with optimized Linux OS
- 8-Core CPU (3.2GHz) - 32 GB DDR4 RAM - PCIe gen. 4.0
- 4x USB 3.0 (2 in the front, 1 in the rear)

 Specifications subject to change without prior notice

MSQC04-MKII-R1\_EN-02/17/2022