

# Picturall Twin Compact Mark II

Ref. MSTC02-MKII-R1



Heavy-duty, compact dual-output 4K media server. Designed for medium-sized events and installations requiring high levels of performance and reliability



## Powerful and compact dual 4K solution

**Picturall Twin Compact Mark II** is a cost-effective media server with same core features as its larger siblings of the Picturall series. It has enough performance for medium-sized installations and events as a standalone unit but is also perfect companion for Analog Way live presentation switchers. Two 4K@60Hz 10-bit outputs, high playback performance and flexible input options make **Picturall Twin Compact Mark II** a powerful and versatile video playback and processing solution for auditoriums, corporate lobbies, theaters and much more...

## 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 Twin 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 Twin 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 gives 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 Twin Compact Mark II** offers IP (Ethernet) and ArtNet interfaces which enable easy integration with any third-party control systems. **Picturall Twin 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 Twin 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 4.5 live video streaming
- JPG, TGA, TIFF, BMP, GIF, PNG with alpha channel
- Uncompressed image sequences (TGA, DPX, BMP)



### Picturall Twin Compact Mark II at a glance

- ▶ Heavy-duty ruggedized compact 2RU chassis
- ▶ Two 4K@60Hz 10-bit outputs
- ▶ Up to 8 inputs (HDMI 1.4, HDMI 2.0, 3G-SDI)
- ▶ High video 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 8TB            | Up to 8TB    | Up to 32TB   |
| Size            | 2U                   | 2U                   | 4U           | 4U           |

# Picturall Twin Compact Mark II

## Extensive input options

Picturall Twin 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 Twin Compact 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 Twin 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 Twin Compact Mark II features several optional audio interfaces, including one with 2x balanced XLR inputs and 2x balanced XLR outputs, as well as a 32-channel Dante™ audio interface delivering instant access to any audio devices on the network. Picturall Twin Compact Mark II is also compatible with a wide variety of 3<sup>rd</sup> party multi-channel USB interfaces.

## Versatile networking

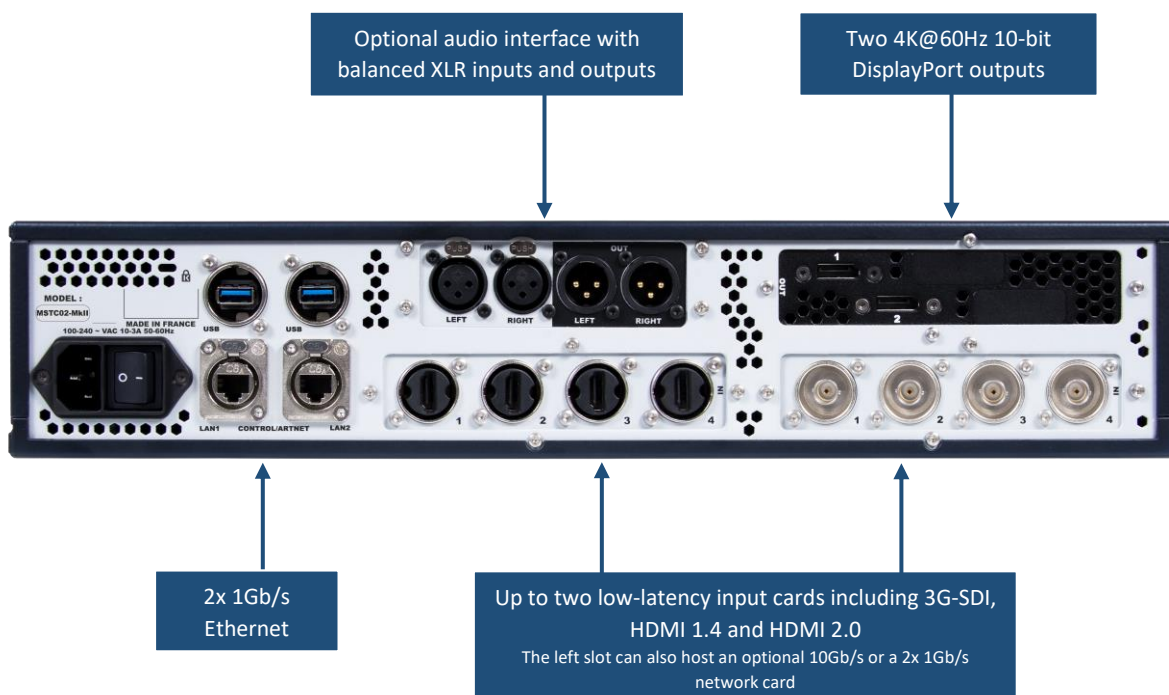
Picturall Twin Compact Mark II comes standard with two 1Gb/s Ethernet ports. An optional card with either one 10Gb/s or two additional 1Gb/s ports can be installed for greater flexibility in your network configuration and faster transmission of massive media files.

## Wide range of storage options

Picturall Twin Compact Mark II comes with a 480GB read-intensive SSD drive as standard, offering consistent performance and reliability for demanding 24x7 environments. Several storage options are available from 1TB up to 8TB capable providing even more performance and storing several hours of video content.

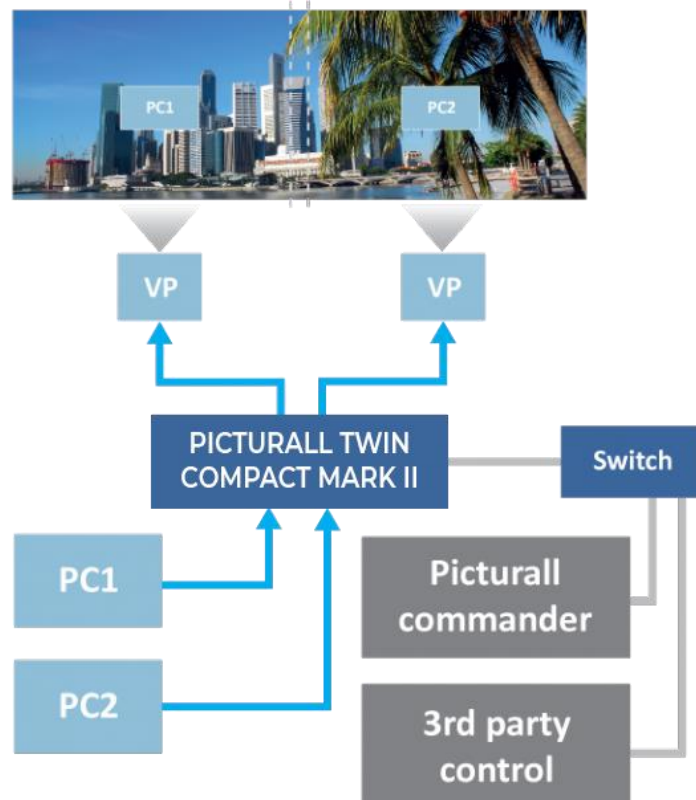
## Compatible with DPH104 image processor

Picturall Twin 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 8 perfectly synchronized full HD outputs from a single Picturall Twin Compact Mark II server.

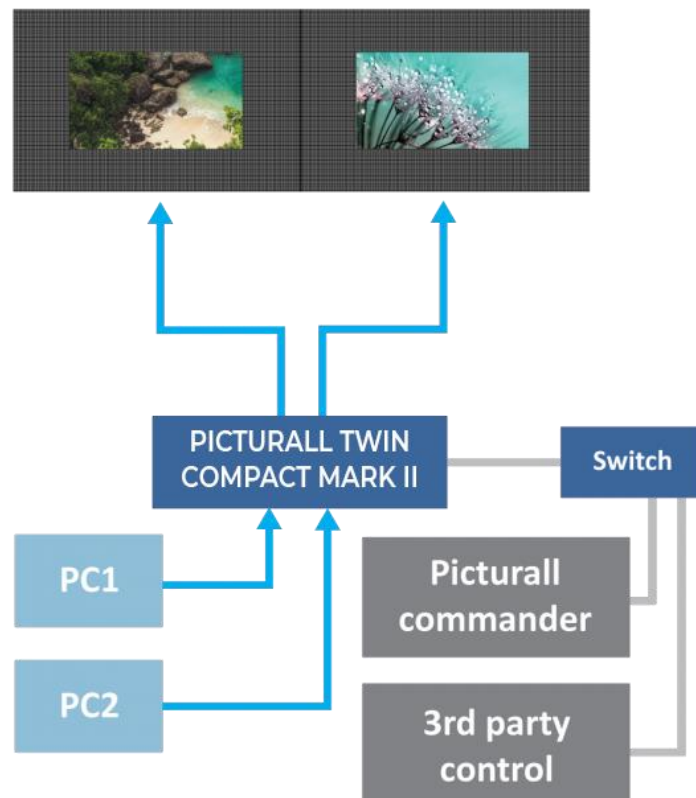


# Picturall Twin Compact Mark II

Application example: Soft-Edge Blending 2 projectors



Application example: LED videowall



# Picturall Twin Compact Mark II

## KEY FEATURES

- Runs on custom and optimized Linux operating system
- Two 4K@60Hz 10-bit outputs
- Up to 8 inputs (HDMI 1.4, HDMI 2.0, 3G-SDI) with Neutrik connectors
- Pixel accurate synchronization between the two 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 1080p@60Hz video or 2 layers of 4K@60Hz video (with AWX codec)
- Uncompressed playback up to 1080@60Hz 10-bit
- Apple™ ProRes authorized product
- 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, compact rack mountable 2RU chassis
- Easy access to front fans and filter for swift cleaning
- 3-year standard warranty, extendable to 5 years

### 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

### 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

- 2 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 8 layers of 1080p@60Hz video or 2 layers of 4K@60Hz video (with AWX codec)
- Uncompressed playback up to 1080@60Hz
- Canvas size up to 16k pixels across

## MEDIA STORAGE

- 1x 480GB SSD drive - Read rate: 500MB/s
- 1TB, 2TB, 4TB and 8TB storage options available based on 1 or 2 larger capacity SSD or one PCIe-NVMe drive

## 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 4.5 live video streaming

## CONTROL


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

## NETWORKING

- 2x 1Gb/sec Ethernet (etherCON CAT 6a RJ45) - system requires 1GB network to maintain a stable connection
- Option: 2x 1Gb/s or 1x 10Gb/s

## SYSTEM

- 128GB SSD system drive with optimized Linux OS
- 6-Core CPU (3.2GHz) - 16GB 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

MSTC02-MKII-R1\_EN-08/31/2021