Picturall Twin Compact Mark II

Ref. MSTC02-MKII-R1

ANALOG WAY®
Pioneer in Analog, Leader in Digital

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, the 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, dynamic HTML graphics, crossfades between clips as well as multi-user control gives you flexibility in programming and control. In addition, Vioso™ camera calibration tools can be used to create playback canvas of various shapes, from curves to a dome.

VIOSO®

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™
- Newtek™ NDI 5.0 live video streaming (input/output)
- SPX for titles, countdowns, and other animated HTML graphics
- MPEG1, MPEG2, MPEG4, MJPEG
- H.264, H.265
- JPG, TGA, TIFF, BMP, GIF, PNG with alpha channel
- Uncompressed image sequences (TGA, DPX, BMP)

AWX   **NDI®**   **ProRes**   **NOTCH LC**   **SPX GRAPHICS**   **HAP**

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 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

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 live video streaming (input/output). 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 3rd party multi-channel USB interfaces.
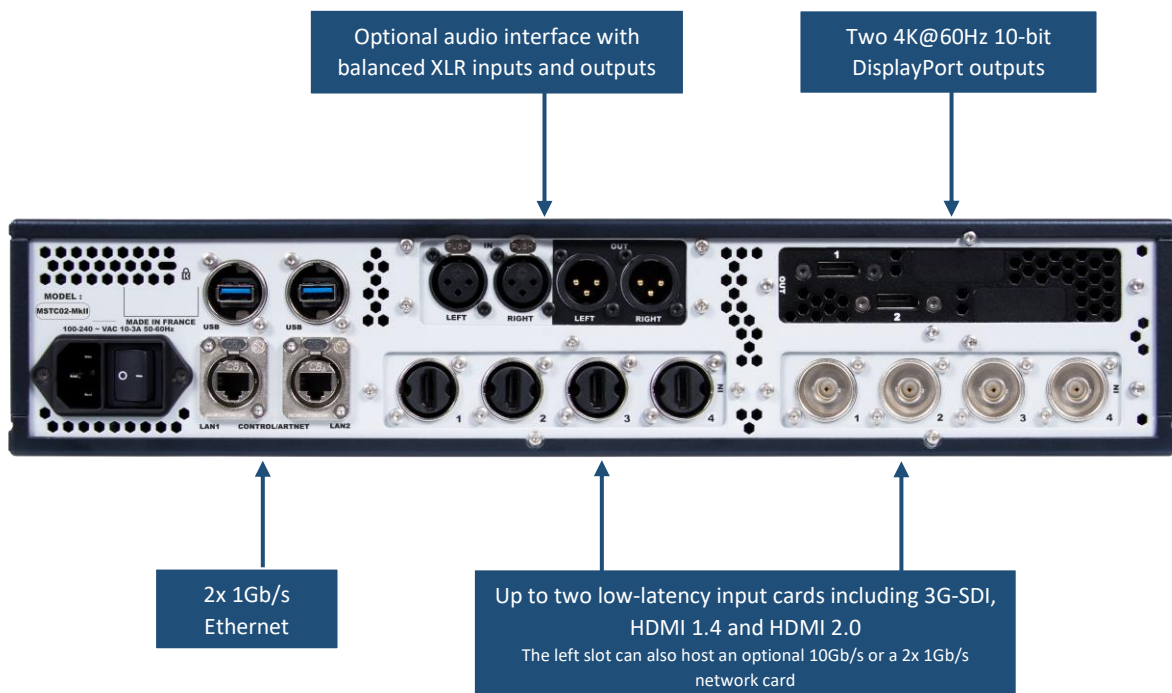
Versatile networking

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.
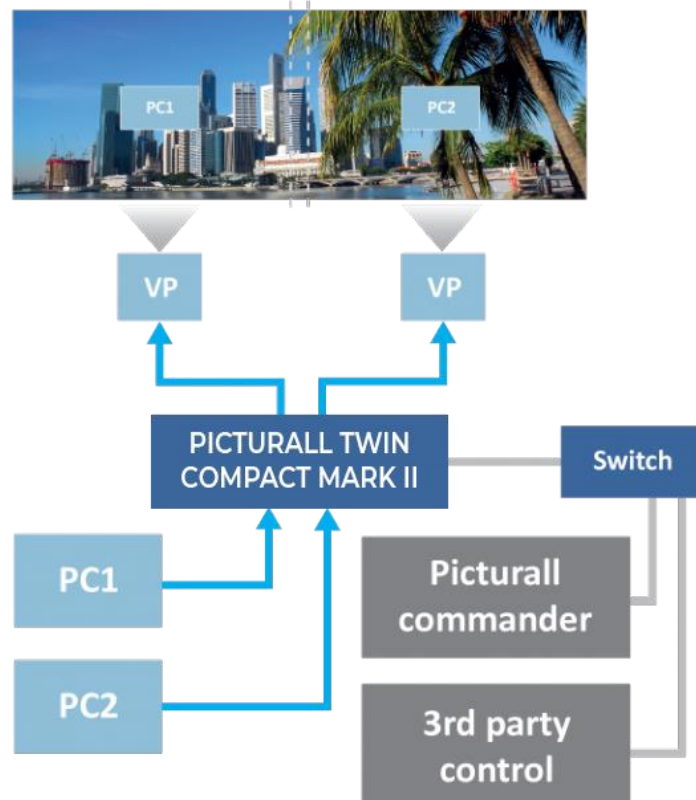
Compatible with DPH104 image processor

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.
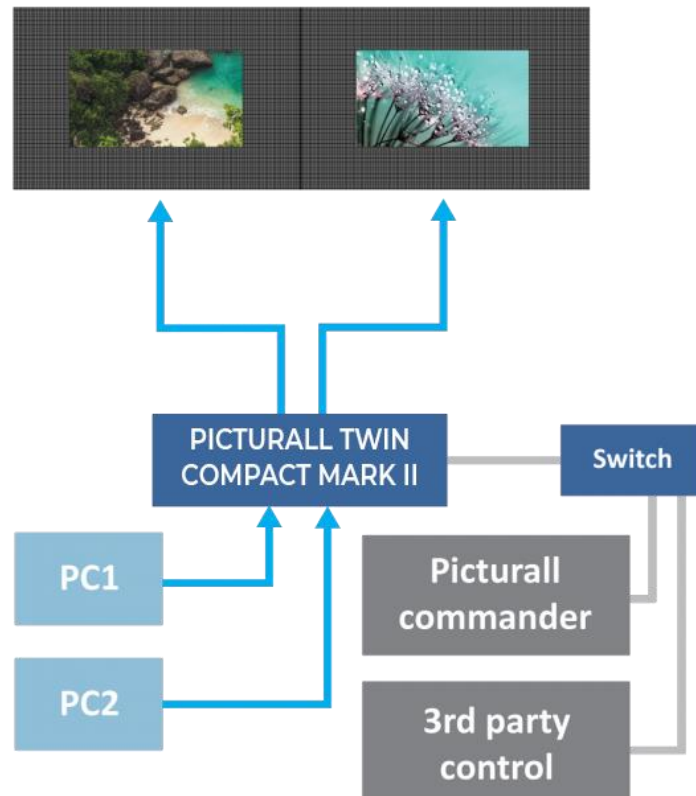
Optional audio interface with balanced XLR inputs and outputs

Two 4K@60Hz 10-bit DisplayPort outputs

2x 1Gb/s Ethernet

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

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 28 layers of 1080p@60Hz video or 6 layers of 4K@60Hz video (with AWX codec and NVME drive option)

Uncompressed playback up to 1080@60Hz 10-bit

Apple™ ProRes authorized product

Support for Vioso™ camera-based projection surface calibration (option)

Display and control animated lower thirds, countdowns, headlines, titles, and other animated graphics with SPX graphics overlays

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

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

Streaming NDI output with alpha channel (with 1 Gb/s network, optional 10Gb/s available)

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

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 5.0 live video streaming

CONTROL

Picturall Commander user interface software

TCP/IP, ArtNet

NETWORKING

2x 1Gb/sec Ethernet (etherCON CAT 6a RJ45) - system requires at least 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