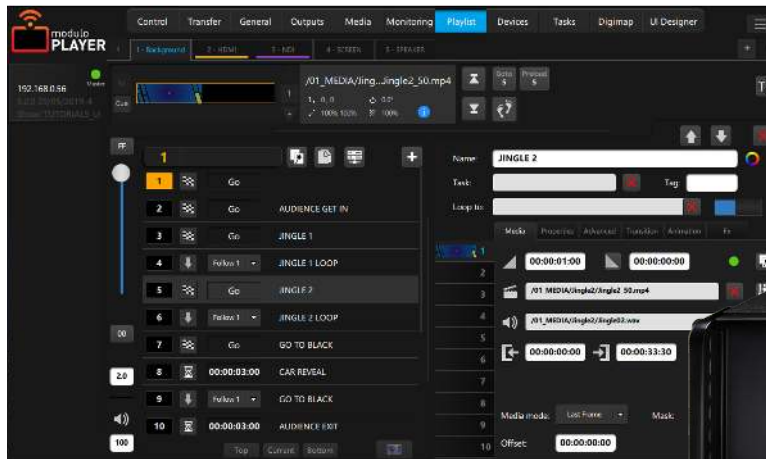# Modulo Player Ultra

REF: MP-UX-1, MP-UX-2, MP-UX-4, MP-UX-2x4K, MP-UX-3x4K

modulo PLAYER

The versatile media server solution for advanced features

When user-friendliness meets unrivaled quality. Modulo Player Ultra is designed for the most specific needs and offers still uncompressed TGA/DPX images sequences reading, active 3D stereo display, and more.

Hardware specifications (Hardware Revision 2022-1)

Operating System: Windows 10 SAC x64
RAM: From 64GB to 128GB
Storage: 1 x SSD 250GB OS / DATA: Depending on version
Processor: AMD EPYC™
LAN: 2 x RJ45 10GbE

Audio: Add any USB or PCIE pro sound card
USB: 2 x USB 3.2 Gen 1 + 1 x USB 3.2 Gen 2 (C)
Graphics Card: AMD Radeon Pro
Power Supply: 100-240 VAC / 50-60Hz / 850W
Average power consumption (high load): 450W

Versions

Reference	Physical outputs	Outputs	Storage Data
MP-UX-1	4 x DP 1.4	1 output up to WQXGA[1]	2TB PCIE NVMe SSD
MP-UX-2	4 x DP 1.4	2 outputs up to WQXGA[1]	2TB PCIE NVMe SSD
MP-UX-4	4 x DP 1.4	4 outputs up to WQXGA[1] or 1 output up to 4K[2]	4TB PCIE NVMe SSD
MP-UX-2x4K	6 x mini DP 1.4	6 outputs up to WQXGA[1] or 2 outputs up to 4K[2]	8TB PCIE NVMe SSD
MP-UX-3x4K	6 x mini DP 1.4	6 outputs up to WQXGA[1] or 3 outputs up to 4K[2]	8TB PCIE NVMe SSD

[1] 2560 x1600
[2] 4096x2160

Options

Reference		Reference	
DELTA-2x3G	Live Capture 2 x 3G SDI	DELTA-MIXED	Live Capture 4 x 3G SDI + 1 x HDMI 2.0 or 1 x 12G SDI + 2 x 3G SDI + 1 x HDMI 2.0
DELTA-1x12G	Live Capture 4 x 3G SDI or 1 x 12G SDI + 2 x 3G SDI		
DELTA-2x12G	Live Capture 8 x 3G SDI or 2 x 12G SDI + 4 x 3G SDI	AUTOCAL-1-OUT	Multi-projector auto-calibration module
DELTA-4x12G	Live Capture 8 x 3G SDI or 4 x 12G SDI	TC-USB-R	Time code reader card - Pcie
DELTA-2xHDMI	Live Capture 2 x 4K HDMI 2.0	TC-PCIE-RW	Time code reader generator card - Pcie
		TC-USB-R	Time code reader card - USB

Related products, software, and tools

Auto-Calibration: Multi-projector auto-calibration module for planar, curved, and dome surfaces

Modulo Player Lite: License for offline programming (requires Modulo Pi key)

Modulo Panel: Companion app to host and use your custom user panels on Mac, PC, Android or iOS devices

Modulo Shortcut: Companion app to take control of your Keynote or PowerPoint presentations

Modulo Sync: Companion app to automatically transfer media to one or several Modulo Player servers

Modulo Wing: Companion app to access all your playlists and tasks on PC, Mac, Android or iOS devices

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Software specifications

Remote control Software
Free remote application (Mac/PC) to control any number of networked Modulo Player

Playlist
Unlimited number of playlists and cues
Cues can be triggered manually or automatically
10 layers per cue
High flexibility allowing last-minute changes

Settings per layer
Position, scale, rotation, opacity, color, fade in/out
Advanced colorimetry, crop, progressive mask, clip, and keyframed animation
Database of 2D GPU effects
Support for interactive shader format
Movie: In/out time, loop mode, speed change with frame blending

Synchronization
Synchronize any number of networked Modulo Player with an easy master/slave set-up
Synchronization with MTC or LTC timecode (optional)
Genlock/Framelock: Contact us for more information

Outputs tools
Warping grid (keystone or curve), advanced soft edge, mask, test patterns generator, advanced color adjustment
Exclusive X-Map function for complex video mapping
LED Pixel mapper (Art-Net)

Low-latency live mixer
Dedicated multi-user remote application (Mac/PC)
Live Preview/Program/Confidence screens
Unlimited number of destination and mix engines
Preset & Quickset
Mask & Keying
Transition effects: cut, fade, flying,...
Cut & Take buttons
Sources: Workspace, HDMI 2.0, low-latency SDI 3G/12G, NDI

Medias
MPEG-2 (4:2:2), H264 (4:2:0) with multiplexed audio embedded
HAP, HAP Alpha, HAP Q support
Apple ProRes with 10 bits support
Uncompressed still sequence TGA, or 10 bits DPX
QuickTime uncompressed RGB, YUV8 or YUV10bits
Multichannel audio file (wav,aiff)
Still images: png, jpg, tiff
Other media: Text, scrolling text, counter, countdown, clock, web page

Interactivity
Easily control the parameters of your media - including position, rotation, opacity, color,... - using external devices (OSC, Art-Net, MIDI, TCP/IP rotary encoder)

Show Control
Create, control, and play automated tasks for a wide number of preloaded external devices including video-projectors, matrix switchers, video processors.
The devices' main parameters are available in our extensive library to ensure fast and easy control through Modulo Player
Trigger tasks from specific devices such as Calendar, MIDI, OSC, GPIO, Art-Net and DMX
Possibility to control Modulo Player with ASCII TCP/IP command with an extensive protocol

User Panel
Easily create different user panels: Drag & drop tasks, add buttons, texts, images, web pages, etc.
User panels are compatible with PC, Mac, iOS, and Android devices

Environmental specifications

Max altitude: 2 700 m
Operation temperature: 10°C ~ 35°C
Non operation temperature: -40°C ~ 70°C
Non operation humidity: 20% ~ 90% (Non condensing)

Complimentary

EU power cord
1 x active DisplayPort[1] to HDMI adapter per output
Modulo Player Remote: PC/Mac remote control software
Modulo Wing: PC/Mac application to see your playlists and launch tasks. Also available on iOS and Android
Modulo Panel: PC/Mac application to host your custom user panels

[1] MiniDP for MP-UX-2x4K & MP-UX-3x4K

Warranty
2-year return-to-base

Physical specifications

Frame	19-inch rack 4U		
Product	**W**	**H**	**D**
Dimensions without handles	427 mm 16.81"	176,80 mm 6,96"	480 mm 18,90"
Dimensions with handles	485 mm 19,10"	176,80 mm 6,96"	530 mm 20,87"
Weight	~ 20 kg	~ 44 lbs	
Shipping	**W**	**H**	**D**
Dimensions	545 mm 21,46"	285 mm 11,22"	665 mm 26,18"
Weight	~ 24 kg	~ 53 lbs	

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