Auto-Calibration













Multi-projector auto-calibration system by Modulo Pi

RFF: AUTOCAL -1-OUT

Optional module for automatic multi-projector calibration

Achieve a perfectly warped and blended projection within minutes thanks to Modulo Pi's auto-calibration solution. Available as an option for the Modulo Player and Modulo Kinetic media servers, the auto-calibration feature allows to automatically align multiple video-projectors on planar, curved, and dome surfaces for a pixel-perfect projection.

Developped by Modulo Pi, the auto-calibration module relies on PoE cameras for fast and simplified cabling. Use one camera to capture your whole projection surface, and the auto-calibration module will do the rest. Your Modulo Pi media server will project a series of patterns, and video-projectors will automatically align in a few minutes. The versatile masking feature ensures a perfectly fine-tuned projection.

With the auto-calibration option added in your Modulo Player and Modulo Kinetic media servers, you will benefit from a reliable and significantly simplified workflow: Get a high-precision edge blending, warping, and play your content within minutes, and with zero latency.

Hardware specifications

Dongle

Dongle-based option for Modulo Player and Modulo Kinetic Dongle embedded in server or available as stand-alone Dongle must remain connected to server(s)

Outputs

Support of independent calibration groups Support of stacked video-projectors (dual, trial, quad...) Price per output. Contact us for more details.

Model





Media servers

Mono server supported^[1]

Mono & multi-servers supported Unlimited number of servers

Outputs / Canvas

Up to 6 outputs WQXGA^[2] or 4 outputs up to 4K^[3]

Up to 6 outputs WQXGA^[2] or 4 outputs up to 4K^[3] in mono-server config. Unlimited number of outputs in multi-servers configuration Unlimited resolution in multi-servers configuration



Travel case with dongle, camera

& lense(s)





 $^{^{\}mbox{\scriptsize [1]}}$ Compatible with Modulo Player Remote for PC only

^{[2] 2560}x1600

^{(3) 4096}x2160

Reference

AUTOCAL-CAMKIT Travel case with 1 x PoE camera, 1 x 15m cable, and room for 1 x auto-calibration dongle + up to 2 lenses AUTOCAL-1-OUT Multi-projector auto-calibration module per output

AUTOCAL-FILENS High resolution fish-eye lens **AUTOCAL-8LENS** High resolution 8 mm lens

Camera specifications

Camera and lens

Power over Ethernet camera for fast and simplified cabling Compatible with fish-eye lenses

One camera required for each auto-calibration group

References supported below. Available through Modulo Pi, or directly through the manufacturers or resellers.









FUJINON - CF8ZA-1S

Software specifications

Auto-calibration wizzard embedded in Modulo Player and Modulo Kinetic for quick and easy calibration One-click calibration mode

Advanced masking feature for pixel-perfect projection Global warping capability Zero latency

Process



Dome before calibration 5 video-projectors - 1 PoE Camera

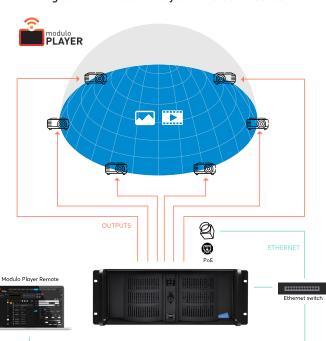


Patterns projected during auto-calibration phase



Dome after calibration with automatic blending and warping

Mono-server configuration Diagram with Modulo Player and a dome screen



Multi-server configuration Diagram with Modulo Kinetic and a semi-elliptical screen

