



Type(s)

Project

Date

Notes

GENERAL INFORMATION

Mosaic Atlas Controller Mk2 controls your largest projects. Mapping large LED pixel arrays for building facades, bridges, and presentation walls is now simple. Play video content across a pixel array, or incorporate a range of creative, generative effects. Mosaic Atlas Mk2 is available in capacities ranging from 25,600 to more than 768,000 addresses from a single controller.

The Mosaic Atlas Controller Mk2 communicates with other network devices using Ethernet protocols or you can play digital video content across your array from locally stored HD media files or an onboard live video input. Because Atlas integrates with all other Mosaic family products, it is the perfect addition for any expanding pixel array installation.

APPLICATIONS

- High pixel count mapping

FEATURES

- Full HD video playback for a wide-range of fixture types and video panels
- Pixel mapping for video effects
- DMX-over-Ethernet data output
- Built-in triggering interface with conditional logic and timeclock based controls
- Digital-video input for live-video mapping
- Internal web server with active pages providing status, configuration information, remote monitoring, and remote show uploads
- Programmed and configured using Mosaic Designer Software v2.15 or later

REGULATORY AND COMPLIANCE

- ETL/cETLus Listed
- CE compliant
- UKCA compliant

ORDERING INFORMATION

Atlas Controllers

MODEL	DESCRIPTION
MALC50 Mk2	Mosaic Atlas 25,600 Address Controller
MALC100 Mk2	Mosaic Atlas 51,200 Address Controller
MALC250 Mk2	Mosaic Atlas 128,000 Address Controller
MALC500 Mk2	Mosaic Atlas 256,000 Address Controller
MALC1000 Mk2	Mosaic Atlas 512,000 Address Controller
MALC1500 Mk2	Mosaic Atlas 768,000 Address Controller
MALC-B Mk2	Mosaic Atlas Backup Controller

Mosaic Controllers

MODEL	DESCRIPTION
MSC	Mosaic DIN rail Controller
MSC X Mk3	Mosaic High Output Rack-mount Controller
MALC Mk2	Mosaic Atlas Controller
MALCP	Mosaic Atlas Pro Controller

Mosaic RIOs

MODEL	DESCRIPTION
MRIO-A	Mosaic Audio/Timecode Remote Device
MRIO-D4	Mosaic DALI Remote Device
MRIO-__	Mosaic Input/Output and Serial Remote Device

Mosaic Accessories

MODEL	DESCRIPTION
M-TS5-__	Mosaic 5-inch Touchscreen
M-TS8-__	Mosaic 8-inch Touchscreen
M108-__	Mosaic 8-button Station
MSC-NET Mk3	Mosaic DIN rail Network Switch
MSC-PS24	Mosaic 24 V DIN rail Power Supply



SPECIFICATIONS

GENERAL

- Available with 25,600 to more than 768,000 outputs
- Support for a single, large pixel map of fixtures
- Support for DMX512/RDM and DMX-over Ethernet control output
 - Supports sACN, KiNET, Pathport, and Art-Net
 - Supports multiple protocol outputs simultaneously
- Supports triggering from sACN and Art-Net level input
- Battery-backed real-time, astronomical and lunar timeclock
- Triggering and show control integration using on-device ports or optional Remote Devices
- Simple integration with other Mosaic devices for large systems, including additional Mosaic Show Controllers for additional control
- Solid-state, high-reliability components

FUNCTIONAL

- Video input supports HDMI (1080p60) for live video mapping
- Scalable up to 40 Mosaic controllers using standard Ethernet
- Project data stored in non-volatile, solid-state memory (128 GB SSD)
- Resumes output automatically upon receiving power
- Supports conditional logic and scripting for integration
- Software and configuration upload using Ethernet
- Audio input for Linear Timecode support (SMPTE, Film, EBU, NTSC)
- Audio output with two audio layers; a background layer for ongoing audio, and an alert layer for high priority overriding
- Ethernet integration with Mosaic RIO modules, Button Stations, and other Mosaic Show Controllers
- Integrated web server with custom web interface provides active monitoring and remote triggering using Ethernet

MECHANICAL

- Low profile, one E.I.A 19" rack unit tall
- Rugged aluminum enclosure with integrated heatsink
- Pluggable rear panel data and power connections

ELECTRICAL

- 100–240 VAC, 50/60 Hz, 0.4–0.2 A, power input using IEC connector with switch
 - Power cord with US/EU/UK connectors supplied
 - Typical power consumption 40 W (maximum 50 W)
- Three 10/100/1000Base-TX Ethernet ports (RJ45 compatible):
 - one for system integration
 - two, internally switched ports for lighting data
- External display port for monitoring or live video output to compatible devices
- Video Capture Card supports HDMI input (1080p60) for video-mapping
- Stereo balanced line level analog audio input port for linear timecode with plug-in rising clamp connectors
- Stereo balanced line level analog audio output port with plug-in rising clamp connectors or SPDIF (RCA) port
- One port for RS232 Serial integration on plug-in rising clamp connector

THERMAL

- Ambient temperature: 0°C to 50°C (32°F to 122°F)
- 10%–90% relative humidity, non-condensing
- Ingress IP20

PHYSICAL

Atlas Controller Mk2 Dimensions†

MODEL	HEIGHT		WIDTH		DEPTH	
	mm	in	mm	in	mm	in
All Models	46	1.8	483	19.0	343	13.5

Atlas Controller Mk2 Weights†

MODEL	WEIGHT		SHIPPING WEIGHT	
	kg	lb	kg	lb
All Models	3.5	7.7	5.5	12.0

†Weights and dimensions typical

