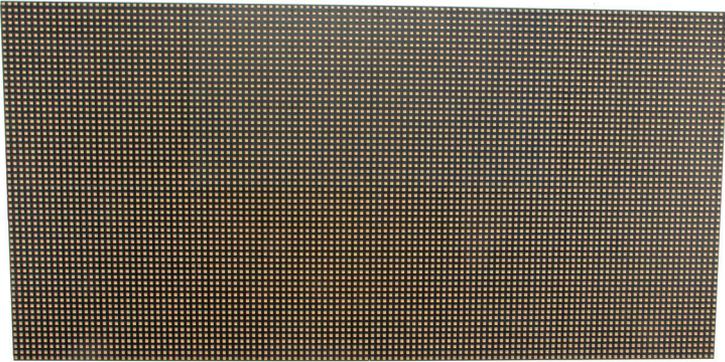

Operation Manual

MIMIK 120



KINO FLO
Lighting Systems

MIMIK 120 LED Fixture

The **MIMIK 120** LED is a Video Lighting Tile that mirrors video content while doubling as a light source. It is driven by the Megapixel Helios processor (required). It uses a patented full spectrum solution to maintain the colorimetry of the incoming RGB video signal. The three color RGB video signal is translated to full spectrum five color Warm White 2700K, Cool White 6500K, Red, Green and Blue LEDs.

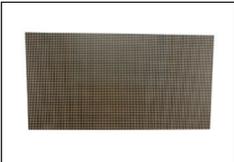
Since the MIMIK video tile uses the same video signal, it can be synchronized with other video displays. It does not have the synchronization and latency issues common with DMX mapped lighting systems.

The user can easily display any portion of the video signal on the MIMIK tile using the Helios platform. This eliminates the need for additional "delay creating" mapping software.

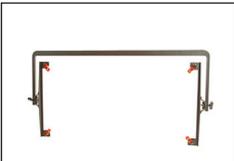
The MIMIK tile operates at a high refresh rate of 30kHz and 16-bit depth enabling camera speeds of up to 900 fps with no flickering at low light levels.

A lighting desk can be used to control light levels and select the video image used on the MIMIK through the Helios processor.

The MIMIK can be configured to work in parallel with other video displays / processors.



MIM-120
MIMIK 120 LED



7010066
MIMIK 120 Yoke Assembly



MTP-MK210
MIMIK 120 Junior Pin

MIMIK 120 Kits



MIMIK 120 Kit (4-Unit), Univ

KIT-MIM-1204

MIMIK 120 Kit (4-Unit), Univ

Kit Contents:

4 MIMIK 120 Fixture w/ Powercon True1, 10ft (3M) (**MIM-120**)

4 Powercon True1 Jumper, 3ft (**PWC-PCJ3**)

4 Ethernet Data Jumper, 3ft (**DAT-E3**)

1 MIMIK 120 Ship Case (4-Unit) (**KAS-MK1204**)

Dimensions: 52 x 36 x 26.5 (132 x 91.5 x 67cm)

Weight: 285 lbs (129.5kg)



MIMIK 120 Yoke Kit (4-Unit), Univ

KIT-MIM-1204Y

MIMIK 120 Yoke Kit (4-Unit), Univ

Kit Contents:

- 4 MIMIK 120 Fixture w/ Powercon True1, 10ft (3M) (**MIM-120**)
- 4 MIMIK 120 Yoke Assembly (**7010066**)
- 4 MIMIK 120 Junior Pin (**MTP-MK210**)
- 4 Powercon True1 Jumper, 3ft (**PWC-PCJ3**)
- 4 Ethernet Data Jumper, 3ft (**DAT-E3**)
- 1 MIMIK 120 Yoke Ship Case (4-Unit) (**KAS-MK1204Y**)

Dimensions: 52 x 36 x 26.5 (132 x 91.5 x 67cm)

Weight: 317 lbs (144kg)

MIMIK AC Power



AC Power

Input and pass through Powercon TRUE1
Maximum is 4 MIMIKs in one string on a 120V 15A
circuit.



IPPOWERKONEXT10FT

Powercon True1, 10ft, 120VAC



PWC-PC10/230

Powercon True1, 10ft, 230VAC



PWC-PCJ3

Powercon True1 Jumper 3ft

MIMIK Data



Ethernet IN / OUT

RJ45 or Ethercon connectors
Either port can be the input or the output.



DAT-E3

Ethernet Data Jumper, 3ft



DAT-E25E

Ethernet Data Jumper, 25ft

Operating Temperature / Humidity

The MIMIK is designed to operate at temperatures and humidity from:
-10°-45°C, 10-90%RH / 14°-113°F, 10-90%RH

MIMIK Yoke Mount



The **MIMIK 120 Yoke Mount** can hang from a grid by a junior pipe hanger using a Junior Pin Assembly for Yoke (**MTP-MK210**), sold separately.



MTP-MK210 MIMIK 120 Junior Pin

SnapGrid



LVR-MK120-S MIMIK 120 SnapGrid, 40°

The SnapGrid accessory is constructed of pre-stretched fireproof fabric with a built-in stainless steel frame. It unfolds and snaps into place. It fits directly on the fixture.

Accessories



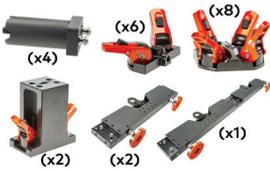
DAT-E25E Ethernet Data Jumper, 25ft (E)



LVR-MK120-S MIMIK 120 SnapGrid, 40°



GROUNDSUPPORT2KIT
MIMIK Floor Standing Support (8-Units)



MTP-MKG1 MIMIK 120 Mount Assembly for
GROUNDSUPPORT2KIT

MIMIK 120 Mount Assembly includes:

- 4 x MTP-MK100
- 6 x MTP-MK101
- 8 x MTP-MK102
- 2 x MTP-MK103
- 2 x MTP-MK104



MTP-MK100 MIMIK Ground Kit to
Coupler Bracket



MTP-MK101 MIMIK 2-Point Coupler



MTP-MK102 MIMIK 4-Point Coupler



MTP-MK103 MIMIK Foot Support to Ground Support



MTP-MK104 MIMIK Foot Support 600mm Assembly



MTP-MK105 MIMIK Foot Support 1200mm Assembly



MTP-MK106 MIMIK Locking Lever (Frame)



MTP-MK200 MIMIK 4-Point w/ Speedrail



MTP-MK201 MIMIK 1-Point w/ Speedrail



MTP-MK202 MIMIK 2-Point w/ Speedrail



MTP-MK210 MIMIK 120 Junior Pin

Cases



KAS-MK1204 MIMIK 120 Ship Case
(4-Unit)



KAS-MK1204Y MIMIK 120 Yoke Ship Case
(4-Unit)

Fixture Specifications



MIM-120 MIMIK 120

Pixel Pitch: 10mm

Pixel Count: 7,200 pixels (120 x 60)

Pixel Construction: 5 LEDs per pixel - Warm White 2700K, Cool White 6500K, Red, Green, Blue

LED Package: SMD 5050 – Black Body

Viewing Angle Horizontal / Vertical: 140° / 140°

LDM (LED Display Module): 8 Total – Magnetically attached – Front side Serviceable

LDM Transparency: Solid – Black front

Scan Ratio: 1/3

Refresh Rate: 30kHz (30,720Hz)

Gray Scale: 16-bit minimum (65,535 steps)

Frames Per Second: 900 fps

Max Alpha Channels: 30 at 30 fps

Max Brightness Calibrated: ~10,000 nits

Input Voltage VAC: 100–240VAC; 50/60Hz

Power Consumption Max / Average: 400W / 200W (Varies based on video content)

Receiver Card: 2 x PX1 (Megapixel)

Video Processor Required: Megapixel Helios

Junior (4096x2160) = 8,847,360 pixels = ~240 MIMIK 120

4K (4096x2160) = 8,847,360 pixels = ~1,200 MIMIK 120

8K (8192x4320) = 35,389,440 pixels = ~2,000 MIMIK 120

Control Software: No software or drivers to install. Controlled through Megapixel Helios.

Frame Material: Carbon Fiber

Maximum Stacking: 5 Tiles high, no limit to width

Tile Linking: Corner blocks, 2-way and 4-way locking

Curving (Concave & Convex): Concave (With attachment)

Certifications: CE, UKCA, ETL, FCC

Patents: US 11,393,372 B2

IP Rating: IP20 - Indoor

Operational Temp / Humidity: -10°–45°C, 10–90%RH / 14°–113°F, 10–90%RH

Dimensions: 120cm x 60cm x 8cm, 47.2" x 23.6" x 3.2"

Weight: 12.5kg / 27.6 lbs

Megapixel Helios

HELIOS Software

The Megapixel HELIOS video processor is controlled via a web browser. There is no software to install. Open your favorite web browser and enter the IP address shown on the front screen of the HELIOS. Multiple users can be logged in at the same time.

For more information visit www.megapixelvr.com.



Megapixel Helios Overview

Management Port IP Address shown on front screen

Video Preview

Push Button / Encoder

Power Switch, Fuse and IEC Input: 100 – 240VAC, Internal Redundant

Ethernet Management Port (Connect to Computer)

8k Input pixel map

Display Port (Optional x2)

HDMI (Optional x2)

SDI Module – Not Included - 4 Shown (Optional up to 4)

SMPTE 2110 Fiber SFP (Optional up to 4)

Ethernet outputs:

HELIOS Jr: 1G x8. Each 1G output can drive 30 MIMIKs in daisy chain.

HELIOS Standard: 10G Fiber SFPs (optional for larger pixel counts) requires license upgrade and external Netgear switches can drive up to 2400 MIMIKs.

Sync / Genlock

The output of the HELIOS is its own IT network. The traffic is not routable over a standard IP network. It can only be routed with Megapixel's Netgear switches which are only necessary for large pixel / tile counts.

The HELIOS Jr does not support external Switches. You can connect 30 MIMIKs to each of the 8 one Gigabit copper ethernet outputs, for a total of 240 MIMIKs on one HELIOS Jr.

The HELIOS Standard supports external Switches and is a paid license upgrade from HELIOS Jr. In Standard mode the HELIOS supports up to 2400 MIMIKs.

The HELIOS Jr and HELIOS Standard use the same Hardware. The license determines operating mode.



MEG-SDI Megapixel (BNC) Input SFP

A Megapixel SDI (BNC) SFP if required is sold separately.

FCC Part 15 Verification:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

FCC Part 15 Declaration of Conformity:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced. The luminaire is intended for professional use only.



For full operation manual, latest Warranty information and Certifications, see Kino Flo website at www.kinoflo.com.

Environmental: Disposal of Old Electrical & Electronic Equipment.



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. This product is made of recyclable materials and should be disposed of in accordance with governmental regulations.

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