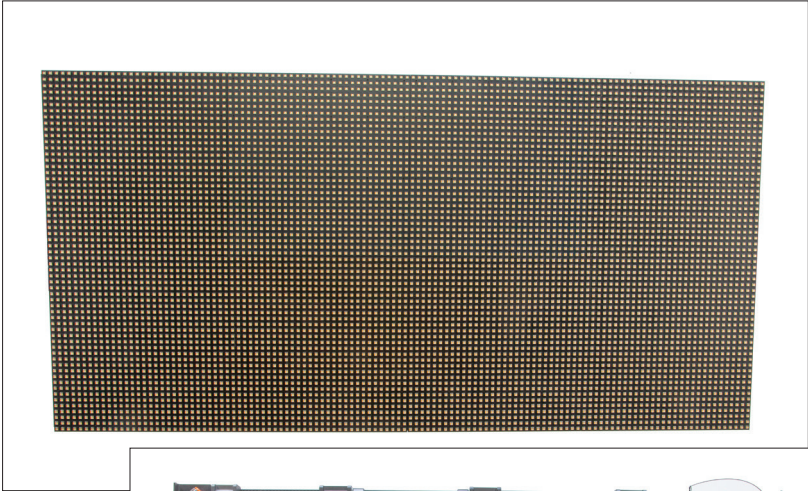


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# Quick Start Guide

## 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.

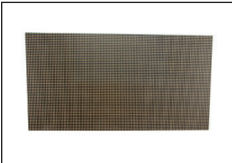
Since the MIMIK video tile uses the same video signal, it can be synchronized with other video displays. It does not have the synchronization and latency issues common with DMX mapped lighting systems.

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.

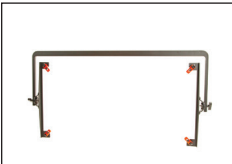
The MIMIK tile operates at a high refresh rate of 30kHz and 16-bit depth enabling camera speeds of up to 900 fps with no flickering at low light levels.

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 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



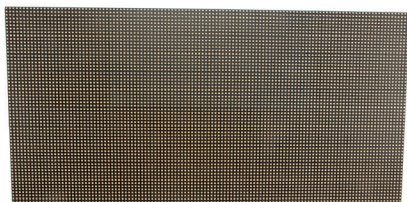
## DAT-E25E

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

# 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](http://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.

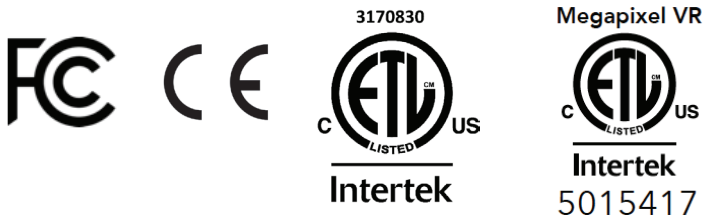
**FCC Part 15 Verification:**

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](http://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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