
Operation Manual

Imara® S100 & S60 DMX



Imara S100 DMX Yoke Mount



Imara S100 DMX Pole-Op



KINO FLO®
Lighting Systems

Imara Fixtures

Imara DMX Yoke Mount



IMR-S100-120U

Imara S100 DMX Yoke Mount, Univ 120U

IMR-S100-230U

Imara S100 DMX Yoke Mount, Univ 230U



IMR-S60-120U

Imara S60 DMX Yoke Mount, Univ 120U

IMR-S60-230U

Imara S60 DMX Yoke Mount, Univ 230U

Imara DMX Pole-Op

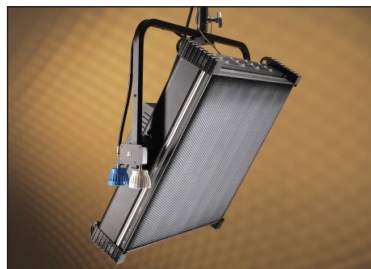


IMR-S100P-120U

Imara S100 DMX Pole-Op, Univ 120U

IMR-S100P-230U

Imara S100 DMX Pole-Op, Univ 230U



IMR-S60P-120U

Imara S60 DMX Pole-Op, Univ 120U

IMR-S60P-230U

Imara S60 DMX Pole-Op, Univ 230U

Included w/ all Imara Fixtures



GFR-IM10

Imara S100 Gel Frame (Included)

GFR-IM6

Imara S60 Gel Frame (Included)



LVR-IM1090

Imara S100 Louver, 90° (Included)

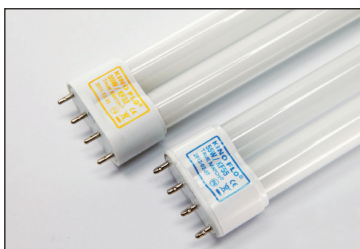
LVR-IM690

Imara S60 Louver, 90° (Included)

True Match® Lamps

Imara S100 uses 10 x 55W Compact Lamps.

Imara S60 uses 6 x 55W Compact Lamps.



55C-K32 55W Kino KF32 Compact

55C-K55 55W Kino KF55 Compact

Imara DMX Yoke Mount Kits



Imara S100 Kit

KIT-IM100-120U

Imara S100 DMX Kit, Univ 120U

KIT-IM100-230U

Imara S100 DMX Kit, Univ 230U

Kit Contents:

1 Imara S100 DMX Yoke
1 Junior Pin (28mm)
1 Ship Case

Dimensions:

44.5 x 10.5 x 35.5"
(113 x 27 x 90cm)

Weight:

62 lb
(28kg)



Imara S60 Kit

KIT-IM60-120U

Imara S60 DMX Kit, Univ 120U

KIT-IM60-230U

Imara S60 DMX Kit, Univ 230U

Kit Contents:

1 Imara S60 DMX Yoke
1 Junior Pin (28mm)
1 Ship Case

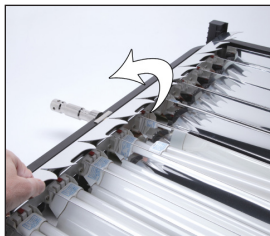
Dimensions:

31 x 10.5 x 35.5"
(79 x 27 x 90cm)

Weight:

46 lb
(21kg)

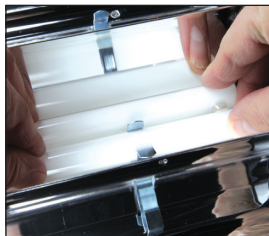
Inserting Lamps



Open hinged reflector door.



Insert lamp base into lamp connector.



Insert lamp tip into lamp clip.

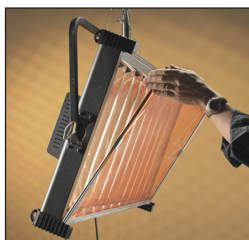


Close reflector door.



To release lamps, press red button and lift lamp base out.

Inserting Louver or Gel Frame



The Imara includes spring loaded accessory holders and two channels to hold the Gel Frame and Honeycomb Louver.

Place the long edge of the Gel Frame Louver into the lower channel. Press down on the left and right corners and slip the upper edge into the upper channel. To remove, reverse the procedure.



Note: Do not press down along the top center portion of the Gel Frame or Louver. Doing so may deform the Gel Frame or Louver over repeated usage.

Applying Gel to Frame

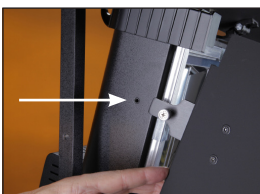


Option 1 – The Gel Frame comes with Gel Clips. Cut the gel to size and use the Clips to fasten the gel to the Frame. Note: It is recommended to attach one clip on all four sides and two clips near all four corners of the Gel Frame.

Option 2 – Apply transfer tape directly to the Gel Frame. The clips are not necessary when taping the gel.

Mounting Barndoors

Side Doors



Position the Side barndoors alongside the side edge of the fixture. Align the thumbscrew with the receptacle hole in the fixture and insert into place. Lock the barndoors by turning the silver thumbscrew. To remove, reverse the procedure.

Top & Bottom Doors



Position the Top and Bottom Doors. Align the three thumbscrews with the receptacle holes in the fixture and insert into place. Lock the barndoors by turning the silver thumbscrew. To remove, reverse the procedure.

Hinge Tension Adjustment



Adjust the hinge tension with a Phillips head screwdriver.

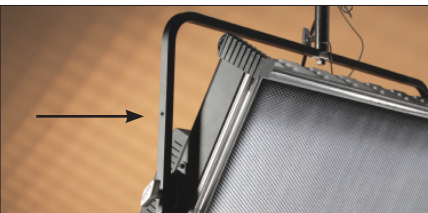
Imara Yoke Mount



The Yoke has a 1/2" hole to accept industry standard mounting hardware.

The **Imara S100** and **S60 Yoke Mount** can mount to a stand or hang from a studio grid via a standard junior pin or Junior Pin Assembly for Yoke (**MTP-I80**), sold separately.

Note: Loop the safety chain around the yoke.



The Yoke Mount is also designed with two holes to allow the yoke bracket to be placed in one of two positions. The additional option is useful when hanging the units in a studio with a low ceiling.

Warning: Use only M5 X 10mm screws (supplied) to mount yoke. Note that threads on the fixture are self-locking and may seem tight. Replacement screws: Part No. **2020127**

Recommended torque setting:

USA: 18 lb-in

Metric: 2 Nm

Imara Pole-Op

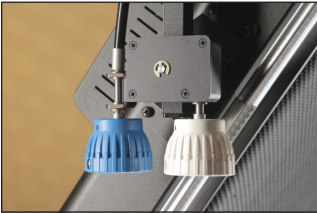


The **Imara S100 and S60 Pole-Op** fixtures include a yoke with an attached junior pin. They can be hung from a grid with a Junior pipe hanger.



Junior pin attached to Pole-Op Yoke

Pole Operation



The **Blue** cup alters the **Pan** (left or right).

The **White** cup alters the **Tilt** (up or down).



Warning!

Do not pull yoke to adjust tilt.

Turn the white knob counter clockwise to angle the yoke 90°.

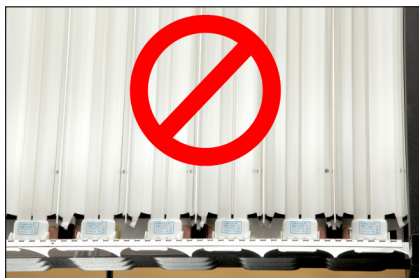
(ParaBeam shown for illustration purposes only.)

Mount Option / Rope Hang



Accessory holders are also designed to enable 4-point rope hangs for specialty rigging applications.

Correct Lamp Orientation



VERTICAL MODE:

The Imara is designed to hold the lamps positioned with the lamp bases up and the lamp tips down. This orientation keeps the mercury away from the cathodes and provides best color rendering.

DO NOT operate fixture with lamp base in the down position. Color can diverge up to 400K and can get very green.

HORIZONTAL MODE:

Even in the horizontal position, a slight rotation favoring the lamp tips (lamp base higher than the lamp tip) will allow for better color temperature stability.



Note: When looking at the back of the fixture, the Kino Flo logo should read:



If the logo is upside down, the fixture does not have the correct lamp orientation.

Fixture Operation

Warning! To Ensure Proper Operation

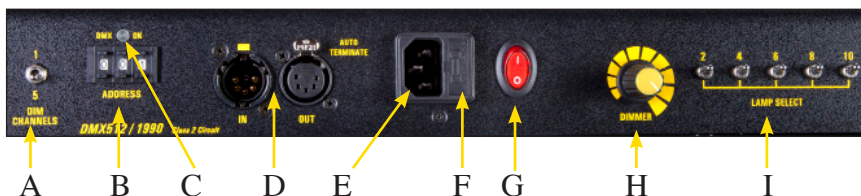
ALWAYS TURN OFF THE FIXTURE BEFORE connecting or disconnecting lamps. After the lamps are properly installed, the switch can turn on the fixture. Avoid operating in temperatures above 140°F (60°C) or below 14°F (-10°C).

Cold Temperature Operation

In cold temperatures below 14°F or -10°C, the fixture may not strike. If lamps do not strike within 5 seconds, switch the fixture to OFF and try again. Check that the lamps are properly seated and the dimmer is up full, then restrike. If temperatures are too low, try to warm up the fixture to at least 14°F (-10°C). Lamps will turn on at preset dimmer settings as long as the temperature is above 14°F or -10°C.

Imara DMX Control Panel

Note: The Imara S100 is shown throughout this operation manual for example purposes.



- A) **DMX Dim Channels:** Sets the fixture to use 1 DMX channel to dim all 10 lamps or 5 DMX channels to control lamps in sets of 2. (Imara S60 has 1 or 3 DMX channels.)
- B) **DMX Address:** Sets DMX address of fixture.
- C) **DMX OK:** Lights if valid DMX signal is present.
- D) **DMX-In & DMX-Out:** DMX-In receives signals from Dimmer Board. DMX-Out relays DMX signal through to other fixtures or instruments. (Note: Each Imara fixture has an **"AUTO TERMINATE"** feature. The last fixture that does not have an XLR cable attached to the DMX "Out" port will automatically terminate.)
- E) **IEC Plug Receptacle**
- F) **Fuse:** Provides circuit protection. Note: If fuse is "blown" or "open", replace with same type of fuse rating as marked.
- G) **Power Switch:** Turns fixture on and off. Has built-in indicator light to detect if AC power is present in power cord. "O" = OFF position.
- H) **Dimmer Knob:** Manual dimming control
- I) **Lamp Select Switches:** Turns lamps on manually in sets of 2.

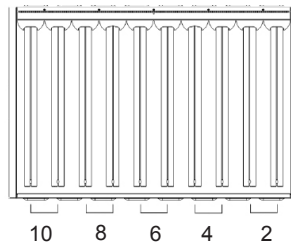
Manual Operation



The onboard dimmer dial can manually dim lamps.



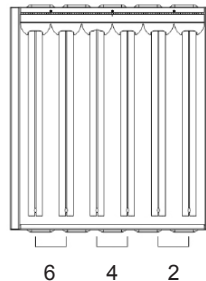
IMARA S100 Lamp Sequence



IMARA S100 has 5 manual **LAMP SELECT** switches. Each switch turns on/off lamps in sets of 2. See diagram above for lamp switching sequence.



IMARA S60 Lamp Sequence



IMARA S60 has 3 manual **LAMP SELECT** switches. Each switch turns on/off lamps in sets of 2. See diagram above for lamp switching sequence.



Note: All manual controls are disabled as soon as the DMX cable is applied. For Manual control with DMX cables plugged in, set address to "000".

There is a 5 second delay when switching between DMX and Manual control.

DMX Operation



DMX Addressing

Prior to hanging any instruments, set the DMX address of each fixture.

Push the tabs above or below the number window to set the address. (Valid addresses range from 001 to 512.) The light above the address block will illuminate if a DMX signal is present.

IMPORTANT!

The dimmer board/light console should have its channel set to LINEAR light output response. (LINEAR response is the default setting on most dimmer boards.)

DMX Dim Channels

The **DMX DIM CHANNELS** feature allows the user to select lamps for DMX dimming control.



IMARA S100 operates on 1 or 5 DMX addresses.

On **DIM Channel 1**, one DMX address controls/dims all 10 lamps on one dimmer channel.

On **DIM Channel 5**, five DMX addresses control/dim 10 lamps in sets of 2.



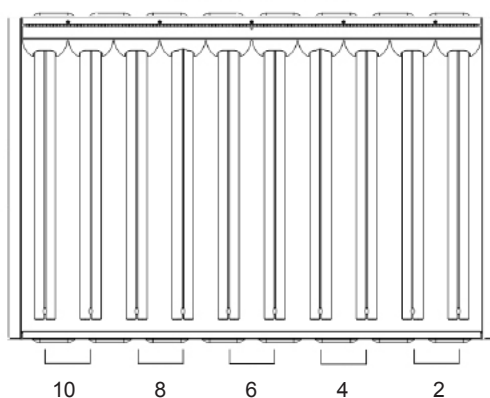
IMARA S60 operates on 1 or 3 DMX addresses.

On **DIM Channel 1**, one DMX address controls/dims all 6 lamps on one dimmer channel.

On **DIM Channel 3**, three DMX addresses control/dim 6 lamps in sets of 2.

See configurations on the following page for lamp sequence.

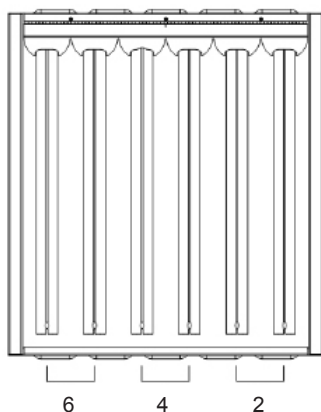
Imara S100 Lamp Sequence



Imara S100 DMX Address Sequence (DIM Channel 5)

Lamp Positions	DMX Address
2	1
4	2
6	3
8	4
10	5

Imara S60 Lamp Sequence



Imara S60 DMX Address Sequence (DIM Channel 3)

Lamp Positions	DMX Address
2	1
4	2
6	3



Auto Terminate Feature

Each Imara DMX fixture has an “**AUTO TERMINATE**” feature. The last fixture that does not have an XLR cable attached to the DMX “Out” port will automatically terminate.

Any theatrical lighting board with DMX512 protocol can be used to individually turn on/off lamps in a fixture. Imara fixtures can be jumpered using the IN and OUT ports. As many as 100 fixtures can be jumpered on one chain as long as the DMX cable run remains under 1000 feet or 40 x 25ft DMX cables.

Note: When operating fixtures at great distances from the dimmer board, it is recommended to use Opto-Isolators to provide DMX signal amplification.



DMX Cables

Cable must comply with EIA-485 (RS485).

The fixture uses five-pin XLR male and female connectors to receive DMX signals from the Dimmer Board and jumper the fixtures in a series. DMX pin-out wiring follows the USITT DMX512 standard:

Pin 1: Shield

Pin 2: Data –

Pin 3: Data +

Pin 4: Spare –

Pin 5: Spare +

Note: Pin four and five in the Fixture are connected internally as Pin four to four and Pin five to five. Connecting Pin four and five as the pass-thru allows secondary data to be passed through other equipment.

Do Not use Microphone Cables and other general purpose, two-core cables designed for audio or signaling use. They are not suitable for DMX512. Problems due to incorrect cabling may not be immediately apparent. Microphone cables may appear to work fine, but systems built with such cables may fail or be prone to random errors. Cable must comply with EIA-485 (RS485).

Note: If a Fixture loses its DMX signal, it will hold its last DMX command.

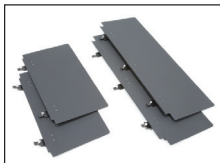
For this reason, it is important to turn the Fixture off using the DMX commands. For example, if you try to turn off the lights by turning off the dimmer board, the lights will remember their last DMX command and stay on. The Fixtures require a DMX “Off” or “Black-out” command in order to turn off.

Troubleshooting

Lamps Fail to Light:

- With the power switch in the **ON** position, the red light should be on. If it is not, voltage is not present. Check the power feed. Check the fuse on the fixture and replace if “blown” or “open” with same type of fuse rating.
- Each ballast operates 2 lamps. If one or both lamps do not light, replace with new lamps that have been tested to work. If tested lamps still do not light, replace ballast.
- After having checked that lamps and ballasts are working properly, turn off power to the fixture for 60 seconds and restart.
- With DMX cable connected, if yellow light is off, there is no DMX signal. Establish a valid DMX signal.
- With DMX cable plugged in and yellow indicator on:
 1. Address must be between 001 and 512.
(Note: 0 or 513 and higher are invalid addresses.)
 2. The dimmer setting on the lighting board must be up in the full mode.

Accessories and Parts



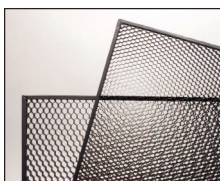
BRD-IM10 Imara S100 Barndoors (Set of 4)

BRD-IM6 Imara S60 Barndoors (Set of 4)



GFR-IM10 Imara S100 Gel Frame

GFR-IM6 Imara S60 Gel Frame



LVR-IM1090 Imara S100 Louver, 90°

LVR-IM1060 Imara S100 Louver, 60°

LVR-IM690 Imara S60 Louver, 90°

LVR-IM660 Imara S60 Louver, 60°



MTP-I80 Junior Pin Assembly for Yoke (28mm)



XLR-525 DMX Cable 5-Pin XLR, 25ft

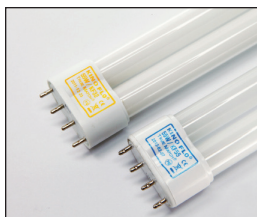
XLR-515 DMX Cable 5-Pin XLR, 15ft



7010023 Imara S100 Pole-Op Assembly

7010022 Imara S60 Pole-Op Assembly

True Match® Lamps



55C-K32 55W Kino KF32 Compact

55C-K55 55W Kino KF55 Compact

Cases



KAS-IM10-1



KAS-CL6

Part Number	Description	Dimensions	Weight (Empty)	Holds
KAS-IM10-1	Imara S100 Ship Case	44.5 x 10.5 x 35.5" (113 x 27 x 90cm)	32 lb (14.5kg)	Imara S100
KAS-IM6-1	Imara S60 Ship Case	31 x 10.5 x 35.5" (79 x 27 x 90cm)	25 lb (11kg)	Imara S60
KAS-CL6	6-Lamp Carry Case (55W Compact)	24 x 7 x 2.5" (61 x 18 x 6.5cm)	0.8 lb (0.4kg)	55W Compact Lamps (6)

Fixture Specifications



Imara S100 DMX Yoke

IMR-S100-120U

Imara S100 DMX Yoke Mount, Univ 120U

Input Voltage: 100~240VAC 50/60Hz, 515W

Output Frequency: 80kHz

Amperage: 4.3A at 120VAC

Lamp Switching: 2/4/6/8/10

Dimming Range: 100%~5%

Weight w/ lamps: 31 lb (14kg)

Dimensions: 41 x 27 x 7"

(104 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base

IMR-S100-230U

Imara S100 DMX Yoke Mount, Univ 230U

Input Voltage: 240~100VAC 50/60Hz, 500W

Output Frequency: 80kHz

Amperage: 2.1A at 230VAC

Lamp Switching: 2/4/6/8/10

Dimming Range: 100%~5%

Weight w/ lamps: 31 lb (14kg)

Dimensions: 41 x 27 x 7"

(104 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base



Imara S60 DMX Yoke

IMR-S60-120U

Imara S60 DMX Yoke Mount, Univ 120U

Input Voltage: 100~240VAC 50/60Hz, 300W

Output Frequency: 80kHz

Amperage: 2.5A at 120VAC

Lamp Switching: 2/4/6

Dimming Range: 100%~5%

Weight w/ lamps: 21 lb (9.5kg)

Dimensions: 28 x 27 x 7"

(71 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base

IMR-S60-230U

Imara S60 DMX Yoke Mount, Univ 230U

Input Voltage: 240~100VAC 50/60Hz, 300W

Output Frequency: 80kHz

Amperage: 1.3A at 230VAC

Lamp Switching: 2/4/6

Dimming Range: 100%~5%

Weight w/ lamps: 21 lb (9.5kg)

Dimensions: 28 x 27 x 7"

(71 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base



Imara S100 DMX Pole-Op

IMR-S100P-120U

Imara S100 DMX Pole-Op, Univ 120U

Input Voltage: 100~240VAC 50/60Hz, 515W

Output Frequency: 80kHz

Amperage: 4.3A at 120VAC

Lamp Switching: 2/4/6/8/10

Dimming Range: 100%~5%

Weight w/ lamps: 31 lb (14kg)

Dimensions: 41.5 x 27 x 7"

(105 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base

IMR-S100P-230U

Imara S100 DMX Pole-Op, Univ 230U

Input Voltage: 240~100VAC 50/60Hz, 500W

Output Frequency: 80kHz

Amperage: 2.1A at 230VAC

Lamp Switching: 2/4/6/8/10

Dimming Range: 100%~5%

Weight w/ lamps: 31 lb (14kg)

Dimensions: 41.5 x 27 x 7"

(105 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base



Imara S60 DMX Pole-Op

IMR-S60P-120U

Imara S60 DMX Pole-Op, Univ 120U

Input Voltage: 100~240VAC 50/60Hz, 300W

Output Frequency: 80kHz

Amperage: 2.5A at 120VAC

Lamp Switching: 2/4/6

Dimming Range: 100%~5%

Weight w/ lamps: 21 lb (9.5kg)

Dimensions: 28.5 x 27 x 7"

(72 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base

IMR-S60P-230U

Imara S60 DMX Pole-Op, Univ 230U

Input Voltage: 240~100VAC 50/60Hz, 300W

Output Frequency: 80kHz

Amperage: 1.3A at 230VAC

Lamp Switching: 2/4/6

Dimming Range: 100%~5%

Weight w/ lamps: 21 lb (9.5kg)

Dimensions: 28.5 x 27 x 7"

(72 x 68.5 x 18cm)

Lamp Type: 55W Compact w/ 2G11 Base

For 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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