
Operation Manual

BarFly[®] 450 DMX

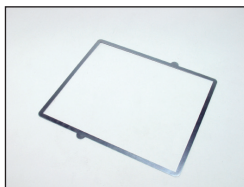


BarFly[®] 450 DMX System



BAR-450-120U BarFly 450 DMX, Univ 120U

BAR-450-230U BarFly 450 DMX, Univ 230U



GFR-B4 BarFly 450 Gel Frame (Included)



LVR-B490 BarFly 450 Louver-Honeycomb,
90° (Included)



MTP-BL41 Kino 41L Mount w/
Baby Receiver (16mm)

True Match[®] Lamps



55Q-K32 55W Kino KF32 Quad

55Q-K55 55W Kino KF55 Quad

BarFly 450 DMX Kit



**BarFly 450 DMX Kit
(1-Unit)**

KIT-B450-120U

BarFly 450 DMX Kit, Univ 120U
(1-Unit)

KIT-B450-230U

BarFly 450 DMX Kit, Univ 230U
(1-Unit)

Kit Contents:

- 1 BarFly 450 DMX
- 1 Mount
- 1 Medium Duty Stand, 30"
- 1 Lamp Case
- 1 Travel Case

Dimensions:

31.5 x 9 x 22"
(80 x 23 x 56cm)

Weight:

32 lb
(14.5kg)

Inserting Lamps



Insert lamps at a 45° angle and align pins with lamp holder.



Gently lay lamp down into fixture.

Caution! If there is any resistance, realign the angle of the lamp and try again.



Press lamp securely into lamp clip.

Applying Gel to Gel Frame



Apply adhesive transfer tape to the gel frame.

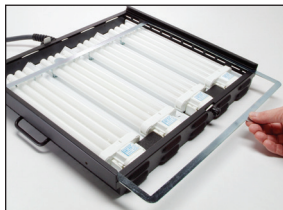


Lay the adhesive side on the gel and trim off excess gel with a matte knife.

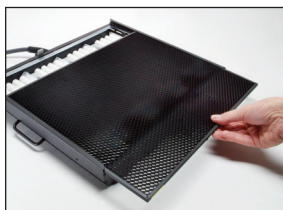
Inserting Louvers & Gel Frames



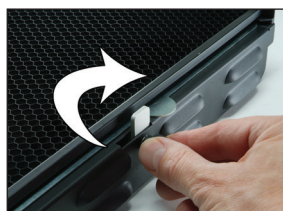
Rotate accessory locking tab counter clockwise to open accessory holder.



Gel frame fits into lower accessory channel.

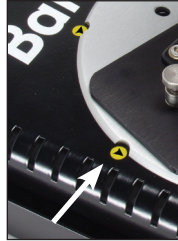


The louver slides into the upper accessory channel.



Rotate locking tab clockwise to lock accessories in place (both ends of fixture).

Mounting



Align center pin of mounting plate (**MTP-BL41**) with mating receptacle on fixture.

Align locking pin with the yellow arrow.



Rotate mount plate in direction of the small arrow. The locking pin will snap into place.

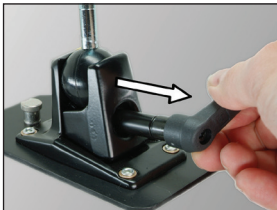
The safety wire loop provides an attachment point for a safety chain if fixture is hung from a grid.



To remove the plate, pull up on the locking pin and reverse the mounting procedure.



A 180° turn loosens the orientation of the mount. A right turn tightens the mount.



The tension on the lock lever may be adjusted by pulling the handle away from the mount. This disengages the handle from the screw mechanism and allows the lever to be reoriented.



Lollipops are interchangeable.

MTP-L Kino 41 Lollipop w/ 3/8" Pin (10mm)

MTP-LB Kino 41 Lollipop w/ Baby Receiver (16mm)

MTP-LBS Kino 41 Lollipop w/ Baby Receiver Short (16mm)

Correct Lamp Orientation



For stable color rendering, use lamps in either the base up position or the horizontal position.



Do not operate fixture in a base down position. Base down position may result in increased Kelvin and increased green spike.

Ballast Power



Warning! To Ensure Proper Operation

ALWAYS TURN OFF THE FIXTURE BEFORE connecting or disconnecting lamps. After the lamps are properly installed, the in-line switch can be turned on.

The BarFly fixtures require 100-240VAC 50/60 Hertz on an earth grounded circuit. The electronic Ballast operates at a high frequency of 47kHz. The BarFly is lightweight, flicker-free and dead-quiet.

Cold Temperature Operation

The BarFly is designed to operate at temperatures from 14F to 122F (-10C to +50C). In cold temperatures, the fixture may not strike the lamp(s). Switch the fixture to OFF. Make sure the onboard dimmer is full up and re-strike.

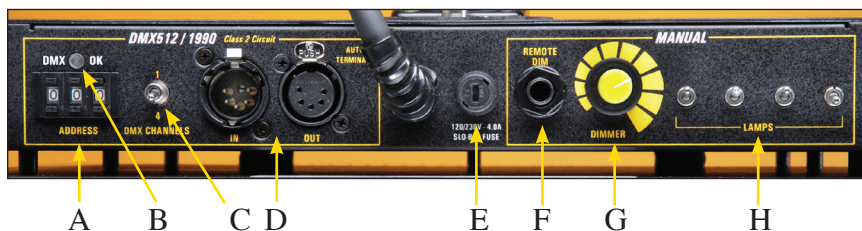
Once operating for a few minutes, the Lamps should re-strike instantly. It is normal for the lamp to require a few minutes to achieve full light output even at room temperature.

Troubleshooting

If the fixture does not strike after two or three attempts, turn off the fixture. With the power switch in the ON position, the red light should be on. If it is not, Voltage is not present. Check your power feed. The onboard dimmer should be full up, turned completely clockwise. All lamp switches should be in the ON position.

Check lamp contact. Once everything has been checked, re-strike.

BarFly 450 DMX Control Panel

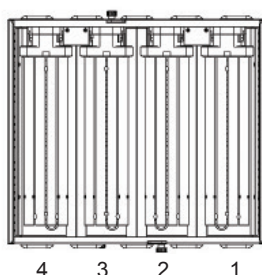


- A) **DMX Address:** Sets DMX address of fixture.
- B) **DMX OK:** Lights if valid DMX signal is present.
- C) **DMX Channels:** Sets the fixture to use 1 DMX channel to dim all 4 lamps or 4 DMX channels to control lamps individually.
- D) **DMX-In & DMX-Out:** DMX-In receives signals from Dimmer Board. DMX-Out relays DMX signals through other fixtures or instruments.
Note: Each BarFly 450 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) **Fuse:** Provides circuit protection. Note: If fuse is “blown” or “open”, replace with same type of fuse rating as marked.
- F) **Remote Dim:** Input jack for handheld remote dimmer (**DIM-5**).
- G) **Dimmer Knob:** Manual dimming control
- H) **Lamp Switches:** Turns individual lamps on manually.

Manual Operation



**BarFly 450
Lamp Sequence**



Lamp Switches

The BarFly 450 has four Lamp Switches which allow for individual lamp operation. Each switch controls one lamp.

Turning off 2 lamps equals a one f-stop reduction in light output without color shift.



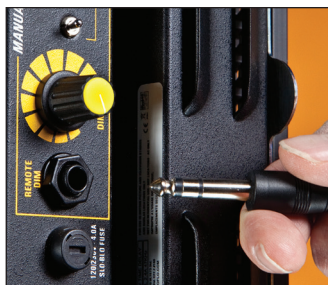
Manual Dimming Control

The BarFly 450 DMX fixture features a built-in dimmer control. For full light output, turn dimmer fully clockwise.

Note: The fixture is designed to start lamps at any dim setting. However, in cold temperatures, make sure the dimmer is set to full before striking. Once the lamps have come up to full temperature after a few minutes, then dim to the desired light level.

Dimming and Color Temperature Shift

Dimming can be used to adjust the light output of the fixture. The color temperature will shift marginally if kept to within one f-stop. Dimming beyond one f-stop may result in a reduction of color temperature as well as a noticeable shift to magenta.



Remote Dimmer

The Remote Dimmer accessory (**DIM-5**) is designed to remotely dim the BarFly. A 15ft dimming cable is supplied with the dimmer.

Insert the dimmer cable into the receptacle marked **REMOTE DIM**. Inserting the dimmer cable will automatically disable the onboard dimmer.



Insert the other end of the dimmer cable into the Remote Dimmer (**DIM-5**).

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.

Tip: Power is not required to set DMX addresses. Therefore, DMX addresses can be set for each fixture prior to hanging.

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 Channels



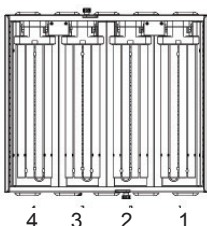
The **BarFly 450** operates on 1 or 4 DMX addresses.

To Control All Lamps: Set fixture to DMX Channel 1
DMX Channel 1 uses one DMX address and controls/dims all 4 lamps.

To Control Lamps Individually: Set to DMX Channel 4
DMX Channel 4 uses four DMX addresses and controls/dims 4 lamps individually.

For example, if the base address is set at 001, the configuration below will provide lamps individually addressable through DMX512.

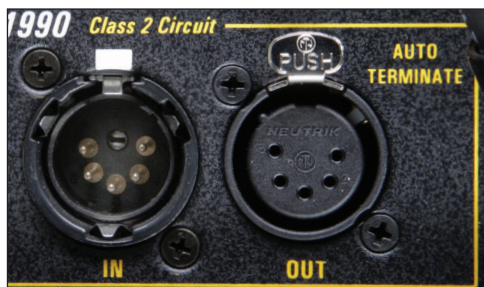
BarFly 450 Lamp Sequence



BarFly 450 DMX Address Sequence (DMX Channel 4)

Lamp #	DMX Address
Lamp 1	1
Lamp 2	2
Lamp 3	3
Lamp 4	4

Note: If a fixture loses its DMX signal, it will hold its last DMX command. For this reason, it is important to turn a 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.



Auto Terminate Feature

The **BarFly 450** series have an “**AUTO TERMINATE**” feature. The last fixture that does not have an XLR cable attached to the DMX “Out” port will automatically terminate.

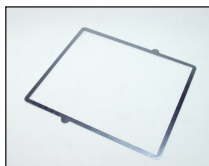
Any theatrical lighting board with DMX512 protocol can be used to individually turn on/off lamps in a fixture. BarFly 450 fixtures can be jumpered using the IN and OUT ports. As many as 100 fixtures can be jumpered on one chain as long as the DMX cable run remains under 1000 feet or 40 x 25ft DMX cables.

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

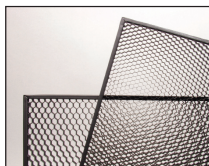
Accessories and Parts



DIM-5 Remote Dimmer



GFR-B4 BarFly 450 Gel Frame



LVR-B490 BarFly 450 Louver-Honeycomb, 90°
LVR-B460 BarFly 450 Louver-Honeycomb, 60°
LVR-B445 BarFly 450 Louver-Honeycomb, 45°



MTP-BL41 Kino 41L Mount w/ Baby Receiver (16mm)



MTP-KL41 Kino 41L Mount w/ 3/8" Pin (10mm)



MTP-L Kino 41 Lollipop w/ 3/8" Pin (10mm)
MTP-LB Kino 41 Lollipop w/ Baby Receiver (16mm)
MTP-LBS Kino 41 Lollipop w/ Baby Receiver Short (16mm)



STD-M30 Medium-Duty Stand, 3-Rise, 30"



XLR-515 DMX Cable 5-Pin XLR, 15ft
XLR-525 DMX Cable 5-Pin XLR, 25ft

True Match® Lamps



55Q-K32 55W Kino KF32 Quad

55Q-K55 55W Kino KF55 Quad



55Q-K10 55W Kino 420 Blue Quad

55Q-K5X 55W Kino 550 Green Quad

Cases



KAS-B4-C



KAS-QL6

Part Number	Description	Dimensions	Weight (Empty)	Holds
KAS-B4-C	BarFly 450 Travel Case (1-Unit)	31.5 x 9 x 22" (80 x 23 x 56cm)	15 lb (7kg)	BarFly 450 Kit Items
KAS-QL6	6-Lamp Carry Case (Quad)	16 x 7.5 x 4.5" (40.6 x 19.1 x 11.4cm)	1 lb (0.5kg)	Quad Lamps (6)

Fixture Specifications



BarFly 450 DMX

BAR-450-120U BarFly 450 DMX, Univ 120U

Input Voltage: 100-240VAC 50/60Hz

Output Frequency: 47kHz

Amperage: 2.4 amps at 120VAC

Lamp Switching: 1~4

Dimming Range: 100%~5%

Weight w/ lamps: 12 lb (5.5kg)

Dimensions: 17 x 16 x 4.5"

(43 x 41 x 11.5cm)

Lamp Type: F55/QFL

BAR-450-230U BarFly 450 DMX, Univ 230U

Input Voltage: 240-100VAC 50/60Hz

Output Frequency: 47kHz

Amperage: 1.2 amps at 230VAC

Lamp Switching: 1~4

Dimming Range: 100%~5%

Weight w/ lamps: 12 lb (5.5kg)

Dimensions: 17 x 16 x 4.5"

(43 x 41 x 11.5cm)

Lamp Type: F55/QFL

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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