
Operation Manual

4Bank, Double & Single



Systems

4Bank

Double

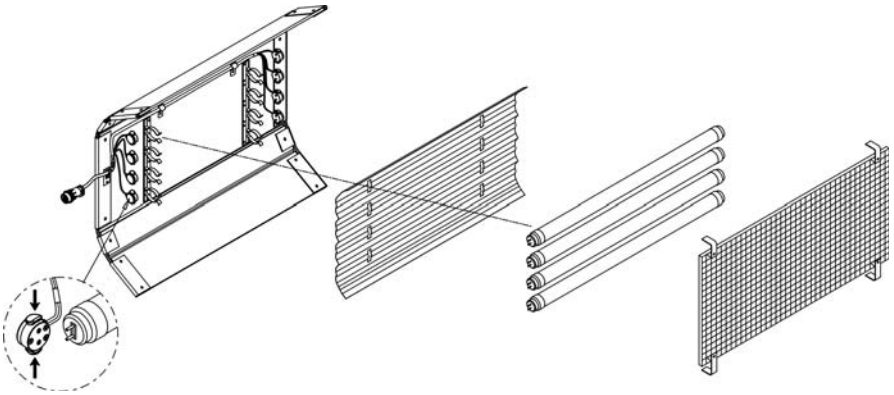
Single



Each System consists of:

- 1 Fixture
- 1 Mounting Plate
- 1 Extension Cable
- 1 Electronic Ballast

Fixture Assembly



The 4Bank, Double and Single fixtures are comprised of a removable Louver, Reflector, and Lamp Harness. The Louver and Reflector are held in place with Velcro fasteners. The Lamp Harness is secured by means of a $\frac{1}{4}$ turn fastener and two clips.



To Release the Lamp Harness

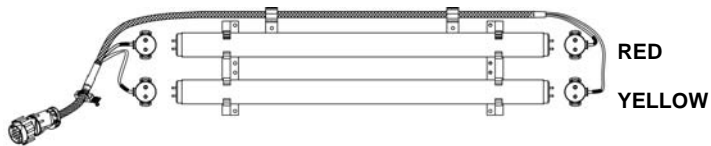
Remove the harness from 2 clips located under the reflector. Rotate the $\frac{1}{4}$ turn fastener clockwise to release harness.



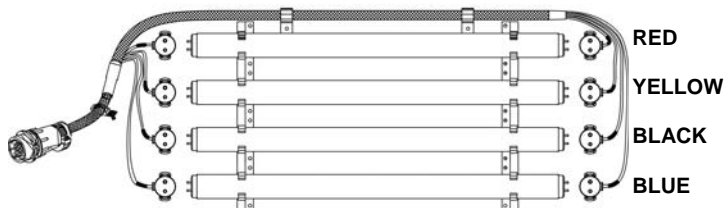
The lamps can operate independent of the fixture allowing them to be built into sets or custom soft boxes or hand held as a single tube for an eye-light.

WARNING: Always use safety coated lamps to avoid injury if lamp breaks.

Lamp Harness Color Codes



Double Harness



4Bank Harness

The Harness wiring is color-coded. The same color-code must match at each end of the lamp for proper operation.

Inserting Lamps



Locking Lamp Connector:

Depress both tabs on lamp connector and apply to lamp pins.
Match the Harness color-codes at each end of the lamp.
Push lamps into the fixture's Lamp Holder Clips.

Gelling the Fixture

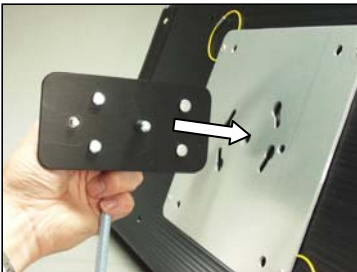


Restricting the airflow around the lamps can cause the lamp to operate hotter. This increased heat will raise the lamp's color temperature and green spike. Therefore, it is recommended to clip gels to the Doors of the Fixture.

Do Not clip gels to louver.

Do Not block the fixture ends in a manner that restricts airflow.

Mounting the Fixture



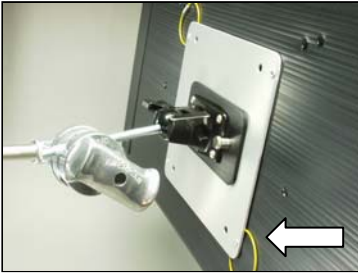
Align the center pin of the mounting plate to the center hole on the mating plate.



Rotate plate clockwise until the four shoulder rivets drop into the receptacle. A locking pin will snap into place when the plate is properly seated.



To remove the plate, pull up on the locking pin and rotate the plate counter clockwise.



The standard mount comes with a 3/8" Lollipop that clamps into a grip head. The ball and socket mount allows the fixture to be oriented in a broad range of angles.

The **yellow wire loops** provide attachment points for a safety chain.



Optional Lollipops w/ Baby Receivers allow mounting to a 5/8" pin or a baby stand.

Other Fixture Mounting Options



The grommet holes along the edge of the fixture are designed to allow the fixture to be screwed onto set walls.



Extension Cable



To insert the cable, align the key ways on the extension cable with the circular receptacle on the ballast. Rotate the locking ring until it clicks into the lock position. Lamps can operate as far as 75 feet from the ballast. (3 x 25ft extensions)



A **Splitter** can be used at the Ballast or on the end of an Extension Cable to split a 4 bank run into either 4 Singles or 2 Doubles. This allows for greater rigging flexibility.



A **Combiner** can connect a number of smaller ballasts to a larger fixture. For example, 4 single Ballasts or two Double ballasts can be combined to a 4Bank Extension or Fixture.

Ballast Operation

WARNING!

- 1) ALWAYS TURN OFF THE BALLAST BEFORE connecting or disconnecting Lamps, Harnesses or Extension Cables.
- 2) Use only with Sine wave inverters. Do not operate on SCR dimmers.
- 3) If powering the ballasts through a Dimmer Pack set the Dimmer to Non-Dim Mode.

Ballast Operation Continued....

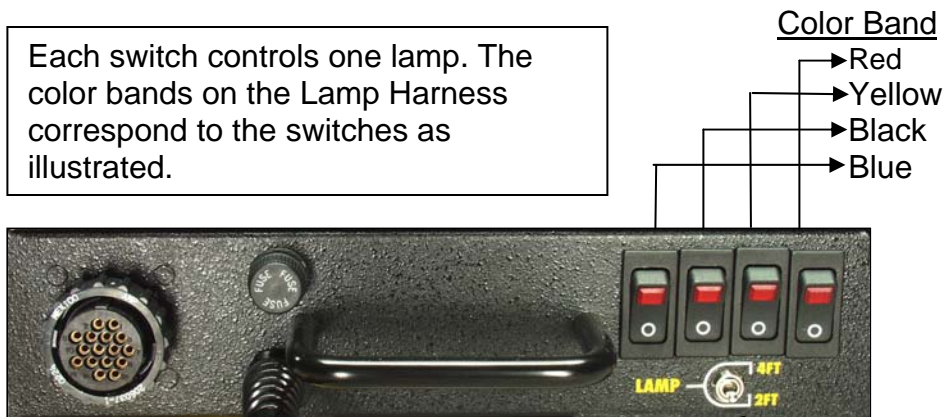
The 120 VAC Ballast requires 110 to 130 Volts AC 50/60 Hertz on an earth grounded circuit; the 230 VAC Ballast requires 220 to 240 Volts AC on an earth grounded circuit. The electronic Ballast operates at a high frequency of 25KHz. It is dead-quiet, instant-on and lightweight.

The Ballast operates remote from the fixture. Connect the Extension cable to the Ballast and the Lamp Harness. After the lamps are properly installed the Ballast can be turned on.

Cold Temperature Operation

The Select Ballast series is designed to operate at temperatures from 14F to 122F (-10C to +50C). In cold temperatures, the Ballast may not strike the lamp (s) instantly. Switch the Ballast to OFF, wait seven seconds and try again. If the Ballast does not strike after two or three attempts, turn off the Ballast, check that the Extension and Harness connections are secure and re-strike. Once operating for a few minutes, the Lamps should re-strike instantly.

Each switch controls one lamp. The color bands on the Lamp Harness correspond to the switches as illustrated.



Lamp Select Feature

The Select Ballasts have a **4FT / 2FT** switch. Set the Selector Switch to **4FT** for 4ft lamps and **2FT** for 2ft or 15" lamps. When operating 4ft lamps in high ambient temperature or where the units are rigged into place with restricted airflow, the **2FT** setting can be used to lower the color temperature and remove any green spike. The light drops about a half an f-stop in exposure when dropping from **4FT** to **2FT**.

Lamp Select feature continued...

It is not recommended to operate 2ft lamps in the **4FT** setting. At the **4FT** setting, the color temperature of the 2ft lamps will rise dramatically and experience a high green spike.

System Components



CFX-4804 4ft 4Bank Fixture
CFX-2404 2ft 4Bank Fixture
CFX-4802 4ft Double Fixture
CFX-2402 2ft Double Fixture
CFX-4801 4ft Single Fixture
CFX-2401 2ft Single Fixture



MTP-K41 "Twist-On" Mount w/ 3/8" Pin



X16-25 4Bank Ext. Cable, 25ft
X16-12 4Bank Ext. Cable, 12ft
X09-25 Double Ext. Cable, 25ft
X09-12 Double Ext. Cable, 12ft
X04-25 Single Ext. Cable, 25ft
X04-12 Single Ext. Cable, 12ft



BAL-410-S120 Select/Ve 4Bank 120VAC
BAL-410-F230 Select/ef 4Bank 230VAC

BAL-210-S120 Select/Ve Double 120VAC
BAL-210-F230 Select/ef Double 230VAC

BAL-105-S120 Select/Ve Single 120VAC
BAL-100-F230 Select/ef Single 230VAC

Accessories and Parts



- MTP-B41 "Twist-On" Mount w/ Baby Receiver
- MTP-B41S "Twist-On" Mount w/ Baby Receiver Short
- MTP-B41T "Twist-On" Mount w/ Baby Receiver Straight



- MTP-L Lollipop 3/8" Pin
- MTP-LB Lollipop w/ Baby Receiver
- MTP-LBS Lollipop w/ Baby Receiver Short
- MTP-LBT Lollipop w/ Baby Receiver Straight



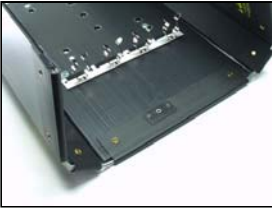
- MTP-BAL Select Ballast Mount



- X16-A4 4Bank to Single Splitter
- X16-A9 4Bank to Double Splitter
- X09-A4 Double to Single Splitter
- X04-A16 Single to 4Bank Combiner
- X04-A9 Single to Double Combiner
- X09-A16 Double to 4Bank Combiner



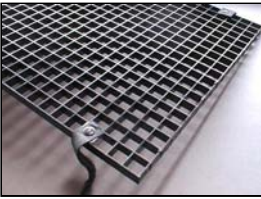
- DFS-4804 4ft 4Bank Flozier, Full
- DFS-4804-H 4ft 4Bank Flozier, Half
- DFS-4802 4ft Double Flozier, Full
- DFS-4802-H 4ft Double Flozier, Half
- DFS-D4 2ft 4Bank Flozier, Full
- DFS-D4-H 2ft 4Bank Flozier, Half
- DFS-D2 2ft Double Flozier, Full
- DFS-D2-H 2ft Double Flozier, Half



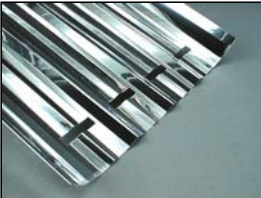
FIX-4804 4ft 4Bank Fixture Shell
FIX-4802 4ft Double Fixture Shell
FIX-4801 4ft Single Fixture Shell
FIX-2404 2ft 4Bank Fixture Shell
FIX-2402 2ft Double Fixture Shell
FIX-2401 2ft Single Fixture Shell



HAR-4804 4ft 4Bank Harness
HAR-4802 4ft Double Harness
HAR-4801 4ft Single Harness
HAR-2404 2ft 4Bank Harness
HAR-2402 2ft Double Harness
HAR-2401 2ft Single Harness



LVR-4804-B 4ft 4Bank Louver, Black
LVR-4802-B 4ft Double Louver, Black
LVR-4801-B 4ft Single Louver, Black
LVR-2404-B 2ft 4Bank Louver, Black
LVR-2402-B 2ft Double Louver, Black
LVR-2401-B 2ft Single Louver, Black



REF-4804 4ft 4Bank Reflector
REF-4802 4ft Double Reflector
REF-4801 4ft Single Reflector
REF-2404 2ft 4Bank Reflector
REF-2402 2ft Double Reflector
REF-2401 2ft Single Reflector

Expendables



EXP-LHC-T12 Lamp Holder Clips T12, 24pk



EXP-M&T Adhesive Mounts and Releasable Ties, 25pk



PRT-HLC Kino Locking Lamp Connector, 1 pk

See web site: www.kinoflo.com for more repair parts

Cases



KAS-C46



KAS-54L



KAS-KFC



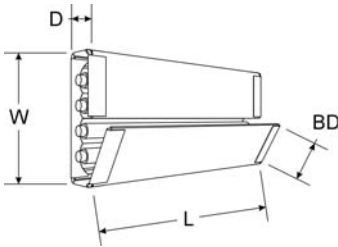
BAG-201

Part Number	Description	Dimensions	Weight (Empty)	Holds
BAG-201	2ft 4Bank Soft Case	27.5" x 7" x 14" 70cm x 18cm x 35.5cm	3lb / 1.4Kg	2ft 4Bank System (1)
BAG-401	4ft 4Bank Soft Case	53.5" x 7" x 14" 136cm x 18cm x 35.5cm	5lb / 2.3Kg	4ft 4Bank System (1)
INS-L4	4-Lamp Foam Pad	24" x 9" x 1" 61cm x 23cm x 2.5cm	N/A	Fits KAS-48, 72, 96
INS-L6	6-Lamp Foam Pad	24" x 13" x 1" 61cm x 33cm x 2.5cm	N/A	Fits KAS-54S, 54L, 96L
KAS-21	2ft System Ship Case	30" x 10" x 15" 76cm x 25.5cm x 38cm	21lb / 9.5Kg	2ft 4Bank System (1)
KAS- 41	4ft System Ship Case	57" x 9.5" x 15" 145cm x 24cm x 38cm	37lb/ 16.7Kg	4ft 4Bank System (1)
KAS-48	4ft Lamp Ship Case	52.5" x 10.5" x 11" 133.5cm x 26.5cm x 28cm	15.5lb / 7Kg	4ft Lamps (20)
KAS-54L	4ft Fixture Ship Case, Large	57" x 15" x 17" 145cm x 38cm x 43cm	22lb / 10Kg	4ft 4Bank Fixture (5)
KAS-54S	4ft Fixture Ship Case, Small	57" x 15" x 11.5" 145cm x 38cm x 29cm	17lb / 7.7Kg	4ft 4Bank Fixture (3)

Part Number	Description	Dimensions	Weight (Empty)	Holds
KAS-C26	6-Lamp Carry Case, (2ft)	26.5" x 6" x 4" 67.5cm x 15cm x 10cm	1lb / .5Kg	2ft Lamps (6)
KAS-C46	6-Lamp Carry Case, (4ft)	50.5" x 6" x 4" 128.5cm x 15cm x 10cm	2lb / .9Kg	4ft Lamps (6)
KAS-GAF	Gaffer Kit Ship Case	55" x 12" x 19.5" 139.5cm x 30.5cm x 49.5cm	34lb / 15.3Kg	4ft 4Bank System (2)
KAS-INT	Interview Kit Ship Case	35" x 11" x 21" 89cm x 28cm x 53.5cm	27lb / 12.2Kg	2ft 4Bank System (2)
KAS-KFC	Ballast & Cables Crate w/ Lid	21.5" x 15" x 12" 54.5cm x 38cm x 30.5cm	6lb / 2.7Kg	Ballasts, Cables, Mounting Plates

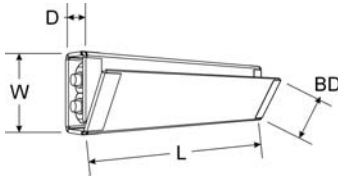
Fixture Specifications

Kino Flo 4Bank Fixture Dimensions



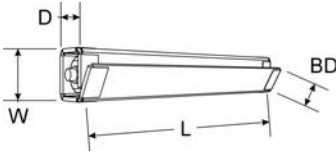
Fixture Style	Length	Width	Depth	Barndoor Width	Weight w/Lamps
2ft 4Bank	27.00"	13"	3.5"	6.5"	7.5 lbs
4ft 4Bank	52.00"	13"	3.5"	6.5"	11.5 lbs

Kino Flo Double Fixture Dimensions



Fixture Style	Length	Width	Depth	Barndoor Width	Weight w/Lamps
2ft Double	27.00"	7.5"	3.5"	6.0"	4.7 lbs
4ft Double	52.00"	7.5"	3.5"	6.0"	7.7 lbs

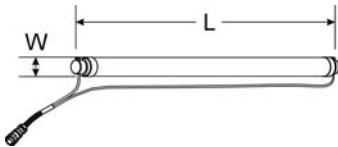
Kino Flo Single Fixture Dimensions



Fixture Style	Length	Width	Depth	Barndoor Width	Weight w/Lamps
2ft Single	27.00"	4.5"	3.5"	3.5"	2.7 lbs
4ft Single	52.00"	4.5"	3.5"	3.5"	4.3 lbs

Lamp w/Harness Specifications

Kino Flo Lamp w/ Harness Dimensions



Lamp Type	Length	Width
2ft Med. Bi-Pin	24.5"	1.5"
3ft Med. Bi-Pin	36.5"	1.5"
4ft Med. Bi-Pin	48.5"	1.5"

Ballast Specifications



BAL-410-S120

Select/ve 4Bank Ballast, 120VAC

Input Voltage: 120 VAC 50/60Hz
Output Frequency: 25 kHz
Amperage: F75/4.3A, F40/3.1A, F30/2.3A
Lamp switching: 4-1/off
Output Switching: 4ft / 2ft
Ballast size: 13 x 9.5 x 2.5"
(33 x 24 x 6.5cm)
Weight: 5lb / 2.3kg

BAL-410-F230

Select/ef 4Bank Ballast, 230VAC

Input Voltage: 230VAC 50/60Hz
Output Frequency: 25 kHz
Amperage: F75/2.4A, F40/1.6A, F30/1.3A
Lamp switching: 4-1/off
Output Switching: 4ft / 2ft
Ballast size: 13.5 x 9.5 x 2.5"
(34.5 x 24 x 6.5cm)
Weight: 6.1lb / 2.7kg



BAL-210-S120

Select/ve Double Ballast, 120VAC

Input Voltage: 120VAC 50/60Hz
Output Frequency: 25 kHz
Amperage: F75/2.4A, F40/1.6A, F30/1.3A
Lamp switching: 2/1/off
Output Switching: 4ft / 2ft
Ballast size: 9.5 x 9 x 2.5"
(24 x 23 x 6.5cm)
Weight: 3.4lb / 1.5kg

BAL-210-F230

Select/ef Double Ballast, 230VAC

Input Voltage: 230VAC 50/60Hz
Output Frequency: 25 kHz
Amperage: F75/1.4A, F40/.9A, F30/.7A
Lamp switching: 2/1/off
Output Switching: 4ft / 2ft
Ballast size: 9.5 x 9.5 x 2.5"
(24 x 24 x 6.5cm)
Weight: 4.1lb / 1.8kg

**BAL-105-S120**

Select/Ve Single Ballast, 120VAC

Input Voltage: 120VAC 50/60Hz
Output Frequency: 25 kHz
Amperage: F75/1.3A, F40/.9A, F30/.7A
Lamp switching: 1/off
Output Switching: 4ft / 2ft
Ballast size: 11 x 2.5 x 2.7"
(28 x 6.5 x 6.5cm)
Weight: 2lb / 0.9kg

BAL-100-F230

Select/ef Single Ballast, 230VAC

Input Voltage: 230VAC 50/60Hz
Output Frequency: 25 kHz
Amperage: F75/ .8A, F40/.6A, F30/.5A
Lamp switching: 1/off
Output Switching: 4ft / 2ft
Ballast size: 10.5 x 4 x 2.5"
(26.5 x 10 x 6.5cm)
Weight: 2.8lb / 1.3kg

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 local and state regulations.