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4Bank

Discontinued 06/2020
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Kino Flo's award winning **4ft 4Bank** portable lighting system is reintroduced with a new design. With new universal voltage: 100VAC to 240VAC, the 4Bank can be used anywhere in the world. The 4Bank is brighter than a 1,000W softlight, yet draws 2.6A (120VAC), 50% less than the previous model. New features include new graphics, new color coded connectors and power switches. The lighter weight 4Bank ballast has the same classic features: individual light control, HO/Standard switch and the same high quality standards: flicker-free, instant-on, dead quiet operation. Color temperature doesn't shift when levels change. With its new and classic features, the popular 4Bank remains to be a favorite tool among lighting professionals in the studio or on location.

The 4-Lamp Fixture

- Built-in Barndoors
- Removable Lamp Harness, Reflector and Louver
- Twist-on, locking Center Mount
- True Match® daylight and tungsten lamps

The High Output Ballast

- 4Bank
- Universal input 100VAC-240VAC
- HO/Standard switching
- Individual lamp control
- Flicker-free, remote operation
- Instant-on, dead quiet

4Bank System Includes



4Bank Fixture



Mounting Plate



4Bank Extension



4Bank Ballast

4Bank System Highlights

- 4-Lamp remote fixture w/ built-in barndoors
- Fixture includes removable Lamp Harness, Reflector and Louver
- Same fixture takes daylight and tungsten lamps
- Mounts to stand, light enough to be hand-held or taped to a wall
- Removable center mount
- High output, flicker-free ballasts
- Universal input voltage from 100-240VAC can be used anywhere in the world
- Instant-on, dead quiet
- Individual lamp switching – no color shift

- HO/Std switching
- Low amperage draw at 2.6A/120VAC
- Same ballast runs 4ft and 2ft lamps
- Operates at 1/3 the power of conventional tungsten softlights
- High color rendering (CRI 95) True Match® lamps in 3200K and 5500K
- UL listed, CE approved



4Bank Kits

Gaffer Kit (2-Unit)



KIT-2GF-120U

Gaffer Kit, Univ 120U (2-Unit)

KIT-2GF-230U

Gaffer Kit, Univ 230U (2-Unit)

Contents

2 4ft 4Bank Fixture	(CFX-484)
2 4Bank Ballast	(BAL-427)
2 MTP-BW41 Mount w/ Baby Receiver (16mm)	(MTP-BW41)
2 Extension, 25ft	(X16-25)
2 Lamp Case	(KAS-C46)
1 Gaffer Ship Case	(KAS-GAF2)

Dimensions

56.5 x 13 x 21.5"
(143.5 x 33 x 55cm)

Weight

72.5 lb (33kg)

Interview Kit (2-Unit)



KIT-2NT-120U

Interview Kit, Univ 120U (2-Unit)

KIT-2NT-230U

Interview Kit, Univ 230U (2-Unit)

Contents

2 2ft 4Bank Fixture	(CFX-244)
2 4Bank Ballast	(BAL-427)
2 MTP-BW41 Mount w/ Baby Receiver (16mm)	(MTP-BW41)
2 Extension, 25ft	(X16-25)
2 Lamp Case	(KAS-C26)
1 Interview Ship Case	(KAS-INT2)

Dimensions

35.5 x 13 x 22"
(90 x 33 x 56cm)

Weight

56.5 lb (26kg)

4ft 4Bank Kit



KIT-484B-120U

4ft 4Bank Kit, Univ 120U w/ Soft Case

KIT-484B-230U

4ft 4Bank Kit, Univ 230U w/ Soft Case

Contents

1 4ft 4Bank Fixture	(CFX-484)
1 4Bank Ballast	(BAL-427)
1 MTP-BW41 Mount w/ Baby Receiver (16mm)	(MTP-BW41)
1 Extension, 25ft	(X16-25)
1 Lamp Case	(KAS-C46)
1 Soft Case	(BAG-401)

Dimensions

55 x 8 x 19.5"
(140 x 20.5 x 49.5cm)

Weight

25.5 lb (12kg)

2ft 4Bank Kit



KIT-244B-120U

2ft 4Bank Kit, Univ 120U w/ Soft Case

KIT-244B-230U

2ft 4Bank Kit, Univ 230U w/ Soft Case

Contents

1 2ft 4Bank Fixture	(CFX-244)
1 4Bank Ballast	(BAL-427)
1 MTP-BW41 Mount w/ Baby Receiver (16mm)	(MTP-BW41)
1 Extension, 25ft	(X16-25)
1 Lamp Case	(KAS-C26)
1 Soft Case	(BAG-201)

Dimensions

28.5 x 7.5 x 20"
(72.5 x 19 x 51cm)

Weight

20 lb (9kg)

4Bank System

The *4Bank System* was designed as a softlight source that could be plugged into the wall on location. With its narrow profile the 4Bank could approximate the quality of light from bounced sources without losing set space.

The first thing to note about the 4Bank System is that it consists of four components: 4Bank Fixture (*fig. 1*), Mounting Plate Ballast (*fig. 3*) and Extension Cable (*fig. 4*). It was designed in this manner to allow the greatest flexibility when working on where the gaffer and DP are constantly being challenged to light unique locations and problem solve at a moment's notice.

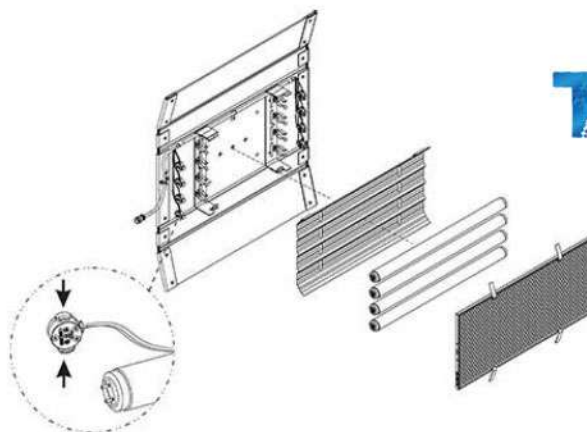
From lighting close-ups in a restaurant location to lighting large blue and green screens, the 4ft 4Bank is the most versatile Kino Flo product range and was the first product developed by Kino Flo more than 25 years ago.



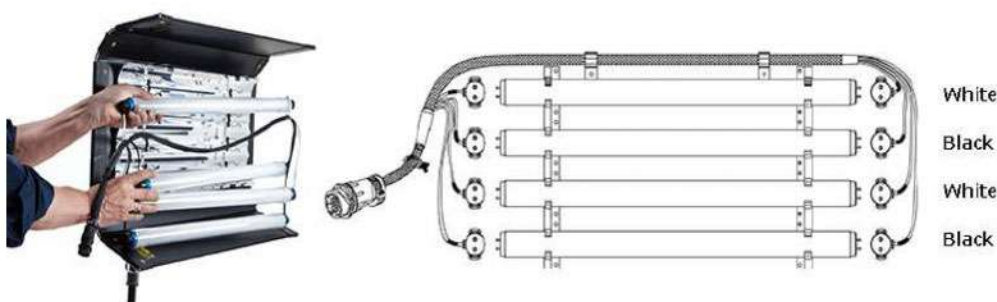
The 4Bank Fixture

The 4Bank Fixture houses the lamps and is comprised of a removable Louver, Reflector, and Lamp Harness. The Louver is held in place with Velcro fasteners. There is a strain relief on the Lamp Harness to ensure the connectors don't pull off the operation. To get the harness away from the fixture, turn the ¼ turn fastener and rotate counter-clockwise to release.





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



Fixture can be used in several configurations:

- 1) Complete fixture with all components combined.
- 2) "Harness Only" - The wiring harness is removed from the fixture so that the user can build a softbox, hide behind Plexiglas locations. The wiring harness uses Kino Flo designed lamp connectors that grab the lamp pins so lamps can be operated independently of the fixture.
- 3) "Harness + Reflector" - Same as above, but may want to use the reflector to give more punch and direction to the light.
- 4) Can use Louver to give direction to the light or remove louver to give broad coverage over an area, such as lighting blue/green screens etc.

The fixtures can take a variety of lamps. They can be used as a daylight source by using Kino Flo KF55 lamps or a tungsten Kino Flo KF32 lamps.

Kino Flo lamps are color-correct and safety-sleeved. The lamps are safety-sleeved because they can operate inside the fixture independently with only the wiring harness. Additionally, on a production set the lamps are often changed out. The safety-protection during lamp changes for the user as well as the talent on the set.



Fixture Accessories

Besides the plastic louvers, other light control options include 4Bank Flozier available in full or half f-stop and the new BatWing. The Flozier attaches to the barndoors and can be adjusted to various configurations. The BatWing Louver attaches directly and gives direction to the light with minimal light loss.

**4Bank Flozier****4Bank BatWing**

Mounting

One of the design features that makes the fixture so popular is the twist-on removable Center Mount. When it's on, the fixture easily to a light stand; when it's off, the fixture is flat and can be hand-held, or hidden in a space too small to place a stand fixture. When the mount is removed, the grommet holes along the edge of the fixture are designed to allow the fixture to to a wall or ceiling through its eyelets.



The standard mount comes with a 3/8" lollipop that clamps into a grip head. The ball and socket mount allows the fixture to a broad range of angles. There is also a longer baby-stand mount and a short version (see below). The yellow wire loops provide attachment points for a safety chain.



4Bank mounting options include **MTP-KW41** Mount with 3/8" Pin (10mm); **MTP-BW41** Mount with Baby Receiver Curve (**MTP-BW41S** Mount with Baby Short (16mm).

**MTP-KW41****MTP-BW41****MTP-BW41S**

Note: The lollipops on all of these mounts are interchangeable.

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



4Bank

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

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



Turn the knob to loosen or tighten the mount.



MTP-BAL1



A Ballast Baby Mount (**MTP-BAL1**) is accessory.

The **MTP-BAL1** can be used with a M mount the ballast onto a stand, for ex

The 4Bank Ballast



4Bank Ballast - Model BAL-427

All the features of the 4Bank fixture would be useless if Kino Flo had not developed its own ballasts that could run the fixture remotely. Unlike conventional architectural ballasts that need to operate three feet to six feet from the fixture head, Kino Flo operate the fixture heads from up to 75 feet (3 x 25ft extension cables).

The Kino Flo 4Bank is a high output, high frequency electronic ballast with universal input voltage from 100-240VAC, that four lamps (4ft or 2ft) up to 75 feet between ballast and fixture. The ballast sends a high output current to the lamps to drive them as brightly as possible. Its high frequency electronics prevent any type of flicker as well. Custom electronic engineering ensure operation without magnetic hum or cooling fans to interfere with the sound recording on set.



4Bank Ballast (Model BAL-427 Controls View)

There is no delay when switching lamps. The ballast operates the lights on/off instantly. There is also a special Select switch to drop the wattage in the tubes for light output and color control. Keeping the ballast remote from the fixture and lamps makes

more accessible to lighting crews who might need to rig the fixtures into set designs or high up in a lighting grid, but switch from a convenient location on the stage floor.

Notice we haven't used the word "dimming" to describe lighting control. The reason is that dimming changes a lamp's color and color balance. The 4Bank ballast has individual switches so that each lamp can be turned on/off. Additionally, the lamp operated in a high output/standard output mode. This combination controls light levels without the color shift issues you find with dimming.

The Kino Flo 4Bank ballast accomplishes all this and still out-performs tungsten lighting instruments when it comes to energy efficiency. In other words, the ballast uses 1/3 the power to produce the same amount of soft light as incandescents. The 4Bank ballast uses 2.6A at 120VAC and 1.4A at 230VAC. The ballast works reliably under most normal conditions, but it's also trustworthy in extreme conditions, such as extreme cold. The ballasts are designed to operate at temperatures from 14F to 122F (-10C to +50C).

In extremely cold temperatures, the ballast may not strike the lamp(s) initially because the lamp may need to warm up. Switch to Off, wait seven seconds and try again. If the ballast does not strike after two or three attempts, turn off the ballast, check extension and harness connections are secure and re-strike. Once operating for a few minutes, the lamps should re-strike.

The 4Bank Extension cable



Up to 75 feet (3 x 25ft) of extension cable can be used between the fixture and the ballast.

The Kino Flo Lamps



4Bank products require safety-coated lamps.

So, if the 4Bank ballast is the brains, then the lamps would have to be the beauty of the 4Bank System. The vaunted T-12 large surface area of soft light. The wide design creates a nearly shadowless display that drops off evenly.

Smaller source fluorescents, such as the compact 55Watt lamps used in the Kino Flo Diva-Lites, can be brighter, but they are hotter and create denser shadows as well. Kino Flo compensates for the lower light level associated with T-12 tubes by overdriving them with the ballast as described above. A discussion of the various lamps available for use in the 4Bank System in the lamp manual provides more information on the types of lamps available from Kino Flo. It's important to know that the True Match daylight 4ft tubes and 2ft tubes common on sets around the world are unique to Kino Flo because they display broad, even, color-accurate light. Cinematographers have come to depend on. These are the only high color rendering fluorescent lamps made for the professional video production.

The 4Bank System will operate any 4ft and 2ft T-12 tube but the color will not be true and the life span will be shorter. All lamps used in the 4Bank fixture are available safety-coated. Safety-coating protects the user from broken glass if the tube breaks and operates independent of the fixture allowing them to be built into sets or custom soft boxes or hand-held.

4Bank Advantages

Energy Efficiency

The 4ft 4Bank produces more lumens than a 1000W tungsten softlight, yet uses only 2.6A (120VAC). This is especially important when shooting on location or in a TV studio and power availability is an issue. The low power draw is also an advantage with battery inverter power sources.

Modular Design

The 4Bank fixture's lightweight, modular design includes built-in barndoors, removable lamp harness, louver and reflector. The fixture can be used complete with all components combined. The wiring harness can be removed so that the user can build a softbox in tight locations. The removable reflector can be used with the harness to give more punch to the light. The Louver can give the light or be removed to give broad coverage over an area, such as lighting blue and green screens, etc. The twist-on remount can mount the fixture easily to a stand. When the mount is removed, the fixture is flat and can be hand-held or held too small to place a stand-mounting fixture. When the mount is removed, the fixture can be screwed to the wall or ceiling eyelets.

High Output, High Frequency Ballast

The 4Bank ballast features individual lamp control, HO/Standard switching and universal input voltage from 100VAC-240V, making the ballast to be used anywhere in the world. It runs high output at a high frequency and operates four lamps (4ft or 2ft) between ballast and fixture. Its high frequency electronics drive the light as brightly as possible while preventing any type of flicker. With custom engineering, the ballast operates instant-on and dead quiet. Together with the modular fixture, the portability and versatility of the 4Bank system with universal input voltage, makes it the perfect tool for lighting in the studio or on location.

Long Lamp Life

Lamp life of a fluorescent for the television and motion picture industry is determined more by its lumen maintenance than burn time. All fluorescent lamps display a lumen depreciation curve. This means that over time the light output gradually lowers in color temperature.

True Match® Color-Correct Lamps

True Match® lamps are formulated to correspond to the spectral distribution curves of film and video cameras as well as the human eye. They are designed to match the colors from quartz halide units or daylight sources such as HMIs. This gives the camera operator the ability of mixing quartz halide hard light sources with fluorescent soft sources. Most lighting designers want the ability to use both and enhance the set.

Architectural lamps are designed to optimize government-mandated standards for lumens per watt efficiencies (energy savings). In order to achieve these standards, the lamps contain high levels of light in the green spectrum, which our eyes don't perceive as inaccurate. Film and television cameras do record this added green. For example, green renders Caucasian skin tone as greenish and unattractive. The architectural lamps do not match with other studio lamps. They render colors inaccurately and make color correction almost impossible.

In 1995 Kino Flo received a technical achievement award from the Academy of Motion Picture Arts and Sciences for the development of the first color-correct lamps for film. Kino Flo continues to be a leader in their field introducing new developments and constantly improving the efficiencies and formulations of its lamp technology.

Cost Savings

Cost savings attributed to fluorescents cover a broad range of concerns:

- Lower energy costs
- Less heat so lower air conditioning expenses
- No gel replacements because of low heat
- Fewer lamp replacements due to longer lamp life
- Lamp replacement labor reduced by a factor of 10