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## Double **Discontinued 12/2019**

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The popular Double portable lighting system has been redesigned with universal input voltage from 100VAC-240VAC. The profile of the fixture and lightweight design makes it perfect for both soft key and fill lighting in tight locations. Features include:

### The 2-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

- Universal input 100VAC-240VAC
- HO/Standard switching
- Flicker-free, remote operation
- Instant-on, dead quiet

## Double System Includes



Double Fixture



Mounting Plate



Double Extension



Double Ballast

### Double System Highlights

- 2-Lamp remote fixture w/ built-in barndoors
- Fixture includes Reflector, Louver, and removable Harness
- Same fixture takes daylight and tungsten lamps
- Mounts to stand, light enough to tape to wall
- Removable center mount
- Fixture or lamps w/ harness run up to 75 feet (24 meters) from ballast
- 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 1.3A/120VAC, 0.7A/230VAC
- Same ballast runs 4ft and 2ft lamps
- UL listed, CE approved

**Double System**

The *Double System* is a softlight source that can be plugged into a wall socket on location. With its narrow profile and size approximate the quality of light from bounced sources without losing set space.

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

Great for key lighting and fill, the 4ft Double is one of the most versatile products in the Kino Flo product range and was o products developed by Kino Flo more than 25 years ago.



**The Double Fixture**

The Double fixture houses the lamps and includes a removable Louver, Reflector, and Lamp Harness. The Louver and Refle place with Velcro fasteners. There is a strain relief on the lamp harness to ensure the connectors don't pull off the lamps d To get the harness away from the fixture, turn the ¼ turn fastener and rotate counter-clockwise to release.



Double Fixture



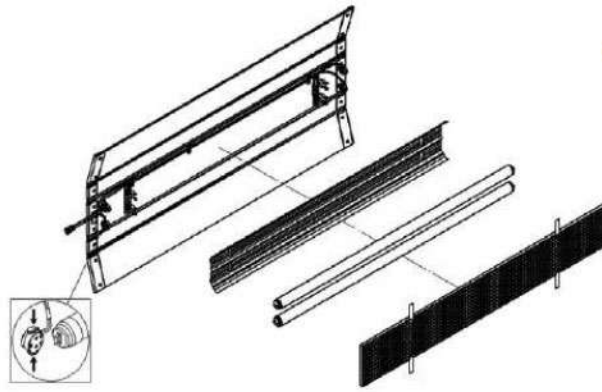
Fixture Shell

Lamp Harness

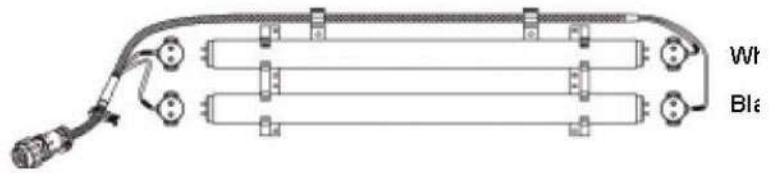
Reflector

Louver

Double



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



**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 Plexig rig into tight locations. The wiring harness uses Kino Flo designed lamp connectors that grab the lamp pins so lamps can 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.

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 source using 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 changed out. Safety-sleeving o during lamp changes for the user as well as the talent on the set.



**Mounting**

One of the design features that makes the fixture so popular is the twist-on removable Center Mount. When it's on, the fix 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 stan fixture. When the mount is removed, the grommet holes along the edge of the fixture are designed to allow the fixture 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 rotate through 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.



Double mounting options include **MTP-KF41** Mount with 3/8" Pin (10mm); **MTP-BC41** Mount with Baby Receiver Curve (16mm); **MTP-BF41S** 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)

**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 Double Ballast



**Double Ballast**

All the features of the Double 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 can operate the fixture heads from up to 75 feet (3 x 25ft extension cables).

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



**Double Ballast (Model BAL-227 Controls View)**

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

The Kino Flo Double ballast accomplishes all this and still out performs tungsten lighting instruments when it comes to one other words, the ballast uses less power to produce the same amount of soft light as incandescents. The double ballast draws 120VAC and 0.7A at 230VAC. The ballast works reliably under most normal conditions, but it's also trustworthy in more harsh such as extreme cold. The ballast series is 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

**See operation manual for more detailed information.**

### The Double Extension cable



Up to 75 feet (3 x 25ft) of extension cable can be used between the fixture and the ballast. The 4Bank, Double & Single fixtures are electrically compatible. A splitter can be used at the Ballast or on the end of an extension cable to split a Double ballast into two fixtures. This allows for a lot of rigging flexibility.

### The Kino Flo Lamps



**4Bank, Double and Single products require safety-coated lamps.**

So, if the Double ballast is the brains, then the lamps would have to be the beauty of the Double 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 create denser shadows as well. Kino Flo compensates for the lower light level associated with T-12 tubes by overdriving the ballast as described above.

A discussion of the various lamps available for use in the Double System in the lamp section provides more information on lamps available from Kino Flo. It's important to know that the True Match daylight and tungsten 4ft tubes and 2ft tubes common around the world are unique to Kino Flo because they display broad, even, color-correct light that cinematographers have come to rely on. These are the only high color rendering fluorescent lamps made for the professional film and video production.

The Double 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 Double fixture are available safety-coated. Safety-coating protects the user from broken glass if the tube lamps can operate independent of the fixture allowing them to be built into sets or custom soft boxes or hand-held.