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12V Single

Discontinued 11/2011

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The **12V Single** puts a compact, controllable, portable dimming system in the palm of your hand. This small cool light location unit takes center stage when it comes to lighting cramped interiors such as a bus, car, elevator or any place on a set that can't be reached via an external light source. Like all Kino Flos, it is a low energy, low profile and low maintenance workhorse for film and video lighting professionals.

- 12V Dimming Ballast
- Flicker-free, instant-on
- Runs lamps 15" to 4ft
- Removable Lamp Harness
- Focusing Louver
- True Match® daylight and tungsten lamps

12V Single System Highlights

- 1-Lamp remote fixture
- Fixture includes Louver and removable Harness
- Same fixture takes daylight and tungsten lamps
- Light enough to tape to back of car seat or dashboard
- Fixture or Lamp w/ harness runs up to 50 feet (16 meters) from ballast
- High output, flicker-free ballast
- Instant-on, dead quiet
- Dimming control with "Trim" feature for different lamp length
- Same ballast runs 15", 2ft and 4ft lamps (with appropriate harness)
- UL listed, CE approved

12V Single Kits



KIT-140X

12V Single Kit, 12VDC

Contents

- 2 12V Single Ballast XLR
- 2 15" 12V Single Fixture
- 2 Extension, 25ft
- 1 Car Adapter XLR
- 1 Alligator Clip Adapter XLR
- 1 Splitter XLR
- 1 Travel Case

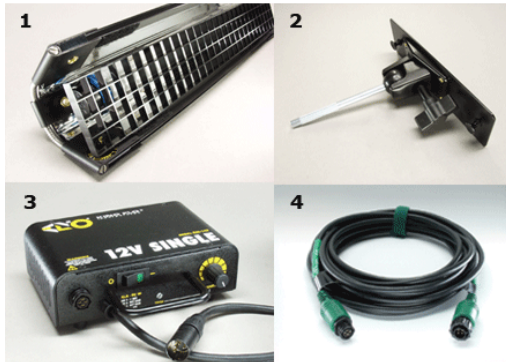
Dimensions

21 x 7.5 x 17"
(53.5 x 19 x 43cm)

Weight

14 lb (6.3kg)

12V Single System



The 12V Single System was designed as an alternative to the popular Mini-Flo system that is widely used in car rigs to light a driver and passenger. In some other applications, like buses, ambulances, boats, etc. where more light output is required and 120vac or 230vac is not readily available, the 12V Single is the solution.

The 12V Single System consists of four components: 12V Single Fixture (fig. 1), Mounting Plate (fig. 2), Ballast (fig. 3) and Extension Cable (fig. 4). It was designed in this manner to allow the greatest flexibility when working on film production where the gaffer and DP are constantly being challenged to light unique locations and problem solve at a moment's notice.

12V Single Fixture

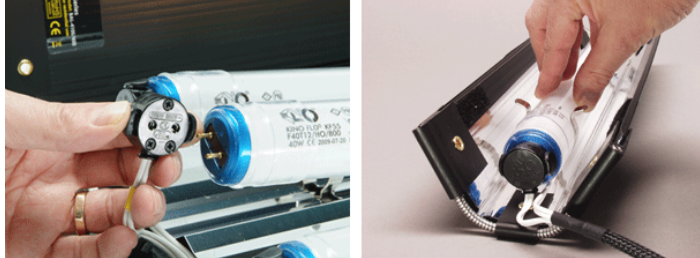


Fixture can be used in two configurations:

- 1) Complete fixture (**CFX-15V**) with all components combined.
- 2) "Harness Only" (**HAR-1501**) - The wiring harness is removed from the fixture so that user can build a softbox, hide behind Plexiglass or rig into tight locations. The wiring harness uses Kino Flo designed lamp connectors that grab the lamp pins so lamps can be operated independently of the fixture.

The fixtures can take a variety of lamps. They can be 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 or independently with only the wiring harness. Additionally, on a production set, the lamps are often changed out. The safety-sleeving offers protection 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 push pin removable Center Mount (MTP-K1), sold separately from kit. 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 12V Single Ballast



12V Single Ballast
(BAL-140X)

For the 12V Single fixture, Kino Flo developed its own ballasts that could run the fixture heads remotely. Unlike conventional architectural ballasts than need to operate three to six feet from the fixture head, Kino Flo ballasts can operate the fixture heads from up to 50 feet (2 x 25ft) extension cables.

The 12V Single ballast is a high output, high frequency electronic ballast that can operate 15" to 4ft lamps up to 50 feet between ballast and fixture. The ballast sends a high output current to the lamp to drive the light as brightly as possible. Its high frequency electronics prevent any type of flicker as well. A special heat-sink design and custom electronic engineering ensure stable operation without magnetic hum or cooling fans to interfere with the sound recording on set.



12V Single Ballast (Controls View)

The ballast operates the light on/off instantly. There is also a special trim feature that changes the travel of the dimmer so that you get a full dimming range even though you are using different lamp length and wattages. Adjust the trim with a screwdriver.



The ballast works reliably under most normal conditions, but it's also trustworthy in more harsh conditions, such as extreme cold. The 12V 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 initially because the lamp may need to warm up. Switch the ballast to off, make sure the dimmer is at full brightness, 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.

[See operation manual for more detailed information.](#)

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