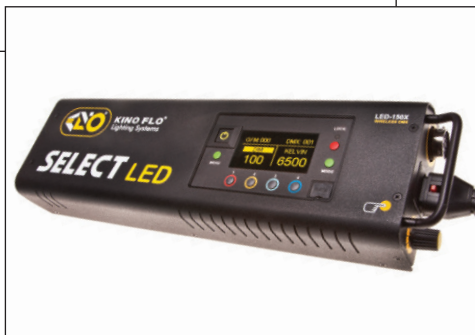


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# Operation Manual

## Select LED 30/20



**KINO FLO**  
Lighting Systems

# Select LED Systems



- SYS-S30-120U** Select LED 30 DMX System, Univ 120U
- SYS-S30-230U** Select LED 30 DMX System, Univ 230U
- SYS-S20-120U** Select LED 20 DMX System, Univ 120U
- SYS-S20-230U** Select LED 20 DMX System, Univ 230U

## Each Select LED System consists of:

- 1 LED Fixture
- 1 Mounting Plate
- 1 Extension Cable
- 1 LED Controller

# Select LED System Components



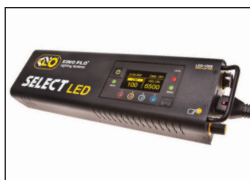
- CFX-SL30** Select LED 30 Fixture
- CFX-SL20** Select LED 20 Fixture



- MTP-BC41** Kino 41K Mount w/  
Baby Receiver Curve (16mm)



- X12-25** Select 150 Extension, 25ft



- LED-150X-120U**  
Select LED 150 DMX Controller, Univ 120U
- LED-150X-230U**  
Select LED 150 DMX Controller, Univ 230U

# Select LED 30 DMX Kits



**Select LED 30  
DMX Kit w/ Soft Case**

**KIT-S30B-120U**

Select LED 30 DMX Kit, Univ 120U w/ Soft Case

**KIT-S30B-230U**

Select LED 30 DMX Kit, Univ 230U w/ Soft Case

**Kit Contents:**

- 1 Select LED 30 Fixture
- 1 Select LED 150 DMX Controller
- 1 MTP-BC41 Mount  
w/ Baby Receiver Curve (16mm)
- 1 Extension, 25ft
- 1 Soft Case

**Dimensions:**

42.5 x 7.5 x 16.5"  
(108 x 19 x 42cm)

**Weight:**

26 lb  
(12kg)



**Select LED 30  
DMX Kit w/ Flight Case**

**KIT-S30-120U**

Select LED 30 DMX Kit, Univ 120U w/ Flight Case

**KIT-S30-230U**

Select LED 30 DMX Kit, Univ 230U w/ Flight Case

**Kit Contents:**

- 1 Select LED 30 Fixture
- 1 Select LED 150 DMX Controller
- 1 MTP-BC41 Mount  
w/ Baby Receiver Curve (16mm)
- 1 Extension, 25ft
- 1 Flight Case

**Dimensions:**

46 x 11 x 16.5"  
(117 x 28 x 42cm)

**Weight:**

46.5 lb  
(21kg)



**Gaffer LED 30 DMX Kit  
(2-Unit)**

**KIT-S32-120U**

Gaffer LED 30 DMX Kit, Univ 120U (2-Unit)

**KIT-S32-230U**

Gaffer LED 30 DMX Kit, Univ 230U (2-Unit)

**Kit Contents:**

- 2 Select LED 30 Fixture
- 2 Select LED 150 DMX Controller
- 2 MTP-BC41 Mount  
w/ Baby Receiver Curve (16mm)
- 2 Extension, 25ft
- 1 Ship Case

**Dimensions:**

43.5 x 13 x 18.5"  
(110.5 x 33 x 47cm)

**Weight:**

69 lb  
(31kg)

# Select LED 20 DMX Kits



**Select LED 20  
DMX Kit w/ Soft Case**

**KIT-S20B-120U**

Select LED 20 DMX Kit, Univ 120U w/ Soft Case

**KIT-S20B-230U**

Select LED 20 DMX Kit, Univ 230U w/ Soft Case

**Kit Contents:**

- 1 Select LED 20 Fixture
- 1 Select LED 150 DMX Controller
- 1 MTP-BC41 Mount  
w/ Baby Receiver Curve (16mm)
- 1 Extension, 25ft
- 1 Soft Case

**Dimensions:**

- 31 x 7.5 x 18"
- (79 x 19 x 46cm)

**Weight:**

- 23 lb
- (10.5kg)



**Select LED 20  
DMX Kit w/ Flight Case**

**KIT-S20-120U**

Select LED 20 DMX Kit, Univ 120U w/ Flight Case

**KIT-S20-230U**

Select LED 20 DMX Kit, Univ 230U w/ Flight Case

**Kit Contents:**

- 1 Select LED 20 Fixture
- 1 Select LED 150 DMX Controller
- 1 MTP-BC41 Mount  
w/ Baby Receiver Curve (16mm)
- 1 Extension, 25ft
- 1 Flight Case

**Dimensions:**

- 30 x 10.5 x 21"
- (76 x 27 x 53cm)

**Weight:**

- 38 lb
- (17kg)



**Interview LED 20  
DMX Kit (2-Unit)**

**KIT-S22-120U**

Interview LED 20 DMX Kit, Univ 120U (2-Unit)

**KIT-S22-230U**

Interview LED 20 DMX Kit, Univ 230U (2-Unit)

**Kit Contents:**

- 2 Select LED 20 Fixture
- 2 Select LED 150 DMX Controller
- 2 MTP-BC41 Mount  
w/ Baby Receiver Curve (16mm)
- 2 Extension, 25ft
- 1 Ship Case

**Dimensions:**

- 36 x 13 x 20.5"
- (91.5 x 33 x 52cm)

**Weight:**

- 63.5 lb
- (29kg)

# Mounting the Fixture



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

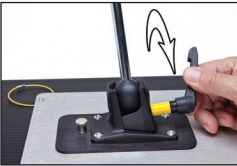
Rotate plate clockwise until the four shoulder rivets drop into the receptacle. A locking pin will snap into place when the plate is properly seated.



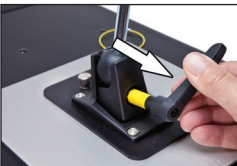
The **yellow wire loop** provides an attachment point for a safety chain.



**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-LBC** Kino 41 Lollipop w/ Baby Rcvr Curve (16mm)

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

# Mounting the Controller



Insert the 4 rubber feet of the controller into the 4 holes in the fixture.

Secure the Controller to the fixture with the Velcro fastening strap.



Connect the harness to the Controller. Align the key ways on the harness connector with the circular receptacle on the ballast. Rotate the silver locking ring until it clicks into the lock position.

# Extension Cable



The Select LED fixture can be used with the controller directly attached or remotely, using a 25ft extension cable. Remote operation of the controller provides more rigging options.

To insert the cable, align the key ways on the extension cable with the circular receptacle on the controller. Rotate the silver locking ring until it clicks into the lock position.

# Mount Options



**MTP-BAL**



The Controller can be mounted to a stand with a ballast mount accessory, **MTP-BAL** and mafer clamp.

# Power



## AC Input

The Select LED 150 DMX Controller is powered AC and includes an IEC connection. It also includes a 12ft power cord with a locking IEC connector.

The Select LED 150 DMX Controller has a built-in power supply with universal input from 100-240VAC.

## Ambient Operating Temperature

The Select LED 150 DMX is designed to operate at temperatures from 14°F to 104°F (-10°C to 40°C).



## DC Input

The Select LED 150 DMX can also be operated on 24VDC (input range 18-36VDC) through a 3-Pin XLR. The pin polarity is:

- Pin # 1 – Ground
- Pin # 2 + 18-36VDC
- Pin # 3 not used



## Note:

A low voltage warning will display if input DC voltage is under 18VDC. Photo example: **LOW VDC: 17**

# Control Panel - White Mode



A B C D E F G H

- A) On /Off:** **On** = Green light displayed. **Off** = Red light displayed. The display and all menu settings can be operated while the power button is in the **Off** position, as long as power is applied to the controller. The On /Off button only controls the light source.
- B) Menu:** Provides access to menu options such as General settings, Reset, DMX and DMX Wireless settings. *Tip:* While on control screen, press and hold for 3 seconds to switch to **Color** mode.
- C) Kelvin & G/M (Green/Magenta) Preset Buttons:** Factory defaults left to right are: 2700K, 3200K, 5000K and 6500K. G/M default value is 000. User can also use these preset buttons to store custom Kelvin and G/M settings.
- D) Display:** Provides access to Dim, Kelvin, G/M, and DMX channel. Factory reset will show: Dim = 10%, Kelvin = 2700K, G/M = 000, DMX = 001.
- E) Lock:** Press the **Lock** button to disable all buttons and control knob. Press for 3 seconds to restore presets to default factory settings.
- F) Mode:** Press to navigate from Dim to Kelvin and G/M settings. When in sub-menus, pressing Mode always returns you to main display. When DMX is applied, use Mode to access DMX channel on main display. *Tip:* Long press will bring you back one step.
- G) Data Port:** Mini B USB for software updates.
- H) Dimmer Knob:** Manually adjusts Dim, Kelvin, G/M levels and DMX address. Press the knob to toggle between fine and coarse adjustments or when selecting options within menus.
- DMX Note:** Each Select LED 150 DMX Controller has an “**AUTO TERMINATE**” feature. The last fixture that does not have an XLR cable attached to the DMX “Out” port will automatically terminate.

# Control Panel - Color Mode



A B C D E F G H

**A) On /Off:** **On** = Green light displayed. **Off** = Red light displayed. The display and all menu settings can be operated while the power button is in the **Off** position, as long as power is applied to the controller. The On /Off button only controls the light source.

**B) Menu:** Provides access to menu options such as General settings (Color Mode), Reset, DMX and DMX Wireless settings. *Tip:* While on control screen, press and hold for 3 seconds to switch to **White** mode.

**C) Kelvin, G/M (Green/Magenta) Gel, Hue & Saturation Preset Buttons:** Factory defaults left to right are: 2700K, 3200K, 5000K and 6500K. G/M default value is 000. User can also use these preset buttons to store custom Kelvin between 2500K and 9900K and custom G/M, Gel, Hue and Saturation settings.

**D) Display:** Provides access to Dim, Kelvin, G/M, Gel, Hue Saturation and DMX channel. Factory reset will show: Dim = 10%, Kelvin = 2700K, G/M = 000, DMX = 001.

**E) Lock:** Press the **Lock** button to disable all buttons and control knob. Press for 3 seconds to restore presets to default factory settings.

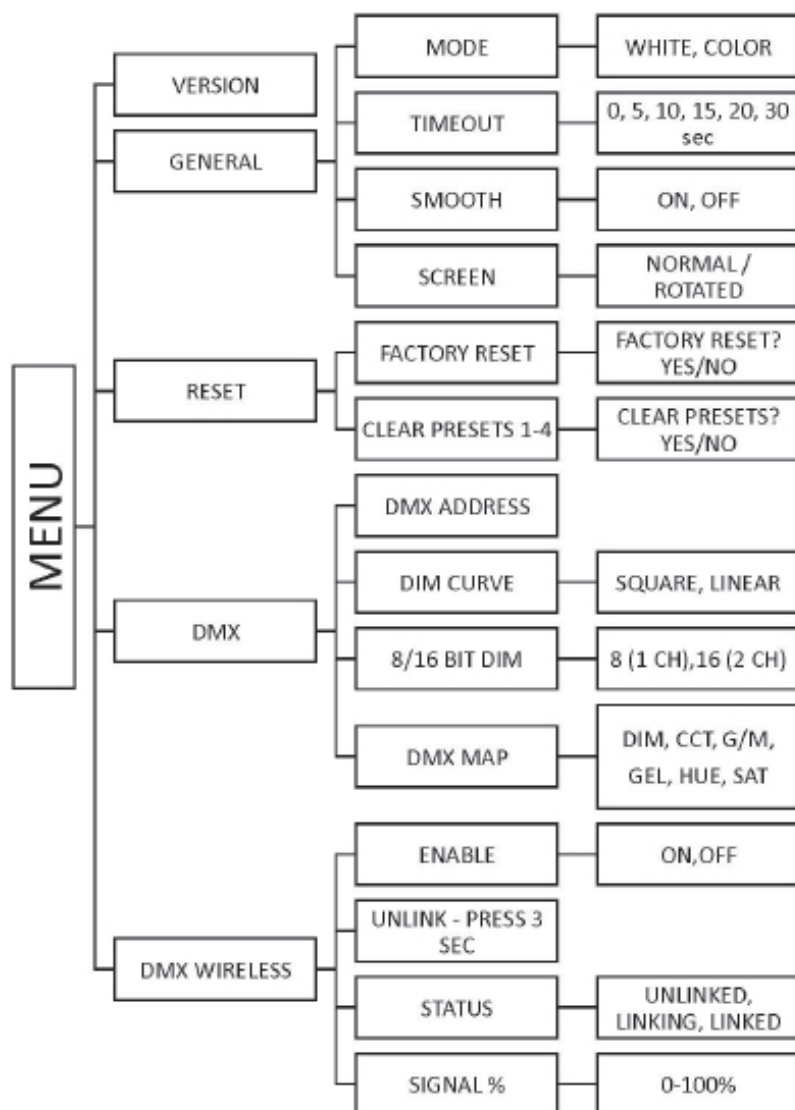
**F) Mode:** Press to navigate from Dim to Kelvin, G/M, Gel, Hue and Saturation settings. When in sub-menus, pressing Mode always returns you to main display. When DMX is applied, use Mode to access DMX channel on main display. *Tip:* Long press will bring you back one step.

**G) Data Port:** Mini B USB for software updates.

**H) Dimmer Knob:** Manually adjusts Dim, Kelvin, G/M, Hue Saturation levels and DMX address. Press the knob to toggle between fine and coarse adjustments or when selecting options within menus.

**DMX Note:** Each Select LED 150 DMX Controller has an **"AUTO TERMINATE"** feature. The last fixture that does not have an XLR cable attached to the DMX "Out" port will automatically terminate.

# Menu Overview



# Dimming



Press the Mode button to select **Dim**. Rotating the control knob will dim the light of the fixture. Default setting is Fine. Press the rotating knob once to shift to Coarse. When the power is turned off or removed, the display will remember its last setting.

# Kelvin Selection/Presets



Press the Mode button until **Kelvin** is highlighted.

Default Presets:

- 1 = 2700K
- 2 = 3200K
- 3 = 5000K
- 4 = 6500K

Default setting is Fine. Press the control knob to shift to Coarse. Rotating the control knob will change the Kelvin.



In **White** mode, **Kelvin** custom settings between 2700K to 6500K and displayed **G/M** can be assigned to any preset button by holding down the desired button for 3 seconds.

In **Color** mode, **Kelvin** custom settings between 2500K to 9900K and displayed **G/M**, **Gel** or **Hue** angle and **Saturation** can be assigned to any preset button by holding down the desired button for 3 seconds. The Kelvin display will flash once the setting is registered.

To restore presets to default factory settings, choose **Reset** under **General** settings and **Clear Presets 1-4**. This method will reset all buttons in **White & Color** mode. Tip: If only want to clear presets individually (**White** or **Color**), hold **Lock** button for 3 seconds while on that display.

# Green/Magenta

The Select LED features a **G/M** (Green/Magenta) control to match the spectral sensitive curves of most popular cameras and other light sources.



Green/Magenta Chart

100G	+1 Green
50G	+½ Green
25G	+¼ Green
25M	+¼ Magenta
50M	+½ Magenta
100M	+1 Magenta

Press the Mode button until **G/M** is highlighted. Rotating the control knob to the right will adjust towards Green. Rotating to the left will adjust towards Magenta. Default setting is Fine. Press the rotating knob to shift the **G/M** from Fine to Coarse increments. For DMX protocol for **G/M** settings, see [www.kinoflo.com](http://www.kinoflo.com).

# Gel, Hue Angle & Saturation



In **Color** mode (in addition to **G/M** control), **Gel**, **Hue** angle and **Saturation** adjustments are available. Kino Flo preset Gels and industry standard preset gels are included. Press Menu, select General and press control knob to change Mode to **Color**.

## Gel

Press the Mode button until **Gel** is highlighted. Rotate the dimming knob to choose preset Gels. For DMX protocol for preset Gels, see [www.kinoflo.com](http://www.kinoflo.com).

## Hue Angle and Saturation

Press the Mode button until **Hue** or **Saturation** is highlighted. Rotate the dimming knob to select custom Hue angle and Saturation. Press the knob to toggle between fine and coarse adjustments.

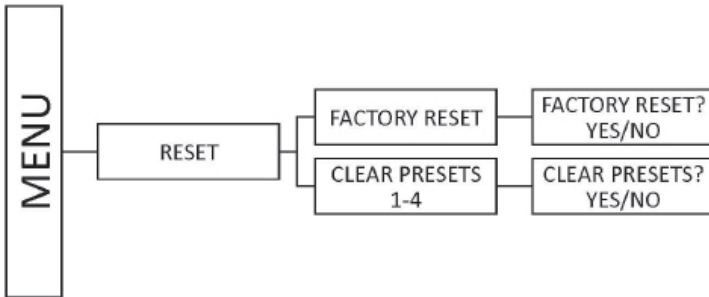
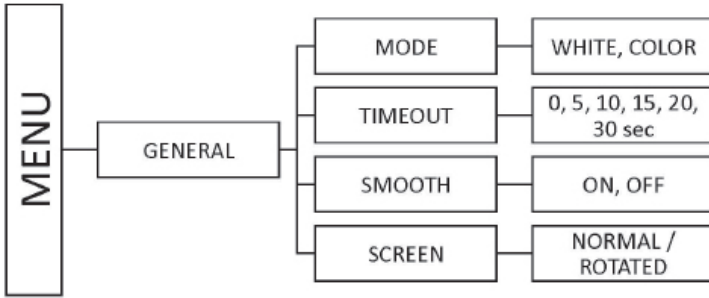
The **Hue** angle and **Saturation** values are based on a HSV / RGB model where 0° = red, 120° = green and 240° = blue.

# Lock



Press the **Lock** button to lock the Kelvin, G/M, Gel, Hue and Saturation settings. A red indicator light will display in Lock mode. Manual controls will be disabled. To unlock, press the **Lock** button again. The red indicator will turn off.

# General Settings





#### **Mode: White or Color**

Default is White mode. Custom Kelvin settings can be set between 2700K to 6500K. To change to Color mode, press the control knob. Custom Kelvin settings can be set between 2500K to 9900K.

#### **Timeout**

When choosing settings, if there is no activity, the display will default to Dim. The default for **White** mode is 5 seconds; the default for **Color** mode is 15 seconds, but can be changed by pressing the control knob to 0, 5, 15, 20 and 30 seconds.

#### **Smooth**

Default is **On**. Press control knob to turn Dim **Smooth Off** for instant response for special effects such as flashing, flickering, strobing, etc. For high speed cameras, it is recommended to keep Dim **Smooth On**.

#### **Screen Normal**

Press control knob to rotate display.

#### **Factory Reset**

To reset to factory settings, press the control knob to select **Reset**, press to select **Factory Reset**. Rotate the control knob to select Yes and press to confirm reset. Main display will default to: Dim = 10%, Kelvin = 2700K, G/M = 000 and DMX = 001.

**Note:** **Factory Reset** resets settings in **White** mode and **Color** mode.

#### **Clear Presets 1-4**

Will reset buttons 1-4: 2700K, 3200K, 5000K, 6500K. G/M will reset to 000. Press the control knob to select **Clear Presets 1-4**. Rotate the control knob press to select Yes and press to confirm.

**Note:** **Clear Presets 1-4** resets buttons in **White** mode and **Color** mode.

# DMX



## DMX

### White mode:

In White mode, the Select LED operates on three DMX channels using DMX512 while in the default 8 Bit Dim mode. The first channel operates dimming; 2nd channel operates Kelvin color temperature control from 2700K to 6500K; 3rd channel operates G/M. Once an address is selected, the fixture automatically assigns 3 channels.

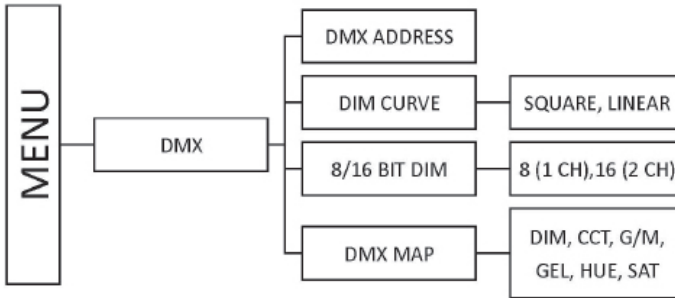
### Color Mode

In Color mode, the Select LED operates on six DMX channels using DMX512 while in the default 8 Bit Dim mode. The first channel operates dimming; 2nd channel operates Kelvin color temperature control from 2500K to 9900K; 3rd channel operates G/M; 4th channel operates the Gel; 5th channel operates the Hue angle and the 6th channel operates the Saturation. Once an address is selected, the fixture automatically assigns 6 channels.

**Note:** In order to control the **Gel** list channel, the **G/M** channel needs to be set to 0. In order to control the **Hue** angle and **Saturation** channels, the **G/M** and **Gel** list channels both need to be set to 0.

**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.

# DMX Settings



Press the Menu button to select **DMX**. Press and turn the control knob to select individual digit settings for a valid address from 1-512. On the main display, “X” next to DMX indicates DMX signal is present.

All manual controls are disabled once the DMX cable is applied and DMX is turned on. To regain manual control with the DMX cable plugged in, set the DMX address to “0”.

## DIM Curve

Default is **Square**. Press control knob to change to **Linear**. **Dim Curve** applies to how the input DMX Dim command is applied. In **Linear** mode an address of 127 = 50% Dim. Because single channel DMX is only 8 bit (0-255), the lower end of the Dim curve has the same increment as the higher end. **Square Dim** applies  $x^2$  curve and allocates more values to the lower end of the Dim scale.

## 8/16 Bit DIM

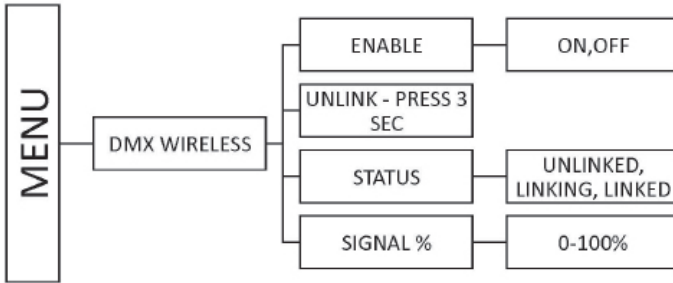
Default is **8 Bit**. **16 Bit Dim** allocates an additional DMX channel for the Dim input, one channel for the upper 8 Bits and another channel for the lower 8 Bits.

## DMX Map

In **White** mode, DMX Map displays three DMX channel settings for **DIM**, **CCT (Kelvin)** and **G/M**. In **Color** mode, DMX Map displays six DMX channel settings for **DIM**, **CCT (Kelvin)**, **G/M**, **Gel**, **Hue** and **Saturation**.

**Note:** If **16 Bit Dim** is on, a total of 4 channels are displayed for **White** mode (7 channels displayed for **Color** mode). The first 2 DMX channels are assigned to dimming. 1st channel = **DIM MSB** (Most Significant Byte); 2nd channel **DIM LSB** (Least Significant Byte); 3rd channel = **CCT (Kelvin)**; 4th channel = **G/M**. (In **Color** mode, 5th channel = **Gel**, 6th channel = **Hue**; 7th channel = **Saturation**.)

# DMX Wireless Settings



The Select LED includes a built-in Lumen Radio receiver and can be operated wirelessly with a Lumen Radio transmitter (sold separately). DMX Wireless is an alternative to using DMX cables. Set DMX address as previously instructed on p 19. For more information on Lumen Radio Receiver/Transmitter, see [www.LumenRadio.com](http://www.LumenRadio.com).



### Enable

Enables wireless DMX. Default is **OFF**. Press the control knob to turn **Enable ON**. The following are examples of what will be seen in the main display when wireless DMX is Enabled:

- 1) **“R” with no signal bar**: Indicates wireless DMX is enabled, but there is no connection to a transmitter.
- 2) **“R” with signal bar**: Indicates wireless DMX is enabled; the fixture is connected to a transmitter, but no valid DMX is currently being transmitted.
- 3) **“RX” with signal bar**: Indicates wireless DMX is enabled; the fixture is connected to a transmitter and valid DMX is currently being transmitted.

All manual controls are disabled when wireless DMX is enabled.

### Unlink - Press 3 secs

Press the control button for 3 seconds to unlink from wireless DMX transmitter.

### Status – Unlinked, Linking, Linked

This shows the status of the wireless connection. Default is Unlinked. When linking is initiated from the transmitter, the status will display Linking. Once connected, the status will change to Linked. If the fixture is linked to a transmitter that is not present, the status will show Linking.

### Signal

Indicates signal strength of wireless connection. In main display, up to 5 bars indicate signal strength.

**Note:** Controller must be powered on. In addition, the wireless transmitter must be connected to a DMX controller with a valid DMX output.

**Tip:** DMX fixtures without wireless capability can be daisy chained with DMX cables to the wireless fixture.

# Accessories



**DFS-SL30-H** Select 30 Flozier, Half

**DFS-SL20-H** Select 20 Flozier, Half



**DFS-SL30-S** Select LED 30 Snapbag  
w/ 2 x Diffusion

**DFS-SL20-S** Select LED 20 Snapbag  
w/ 2 x Diffusion



**LVR-SL340-S** Select LED 30 Snapgrid 40°

**LVR-SL240-S** Select LED 20 Snapgrid 40°



**LVR-SL390-P** Select 30 Louver/HP 90°

**LVR-SL360-P** Select 30 Louver/HP 60°

**LVR-SL290-P** Select 20 Louver/HP 90°

**LVR-SL260-P** Select 20 Louver/HP 60°



**MTP-KF41** Kino 41K Mount w/ 3/8" Pin (10mm)



**MTP-BF41S** Kino 41K Mount w/  
Baby Receiver Short (16mm)



**MTP-BF41** Kino Offset w/ Baby Receiver (16mm)



**MTP-BAL** Kino Ballast Baby Mount (16mm)

# Cases



**BAG-SL30** Select LED 30 Soft Case

**BAG-SL20** Select LED 20 Soft Case



**KAS-DL30** Select LED 30 Flight Case

**KAS-DL20** Select LED 20 Flight Case



**KAS-SL32** Gaffer LED 30 Ship Case (2)

**KAS-SL22** Interview LED 20 Ship Case (2)



**KAS-SL33** Select LED 30 Fixture Ship Case (3)

**KAS-SL23** Select LED 20 Fixture Ship Case (3)

## Select LED Fixture Specifications



Select LED 30

**CFX-SL30** Select LED 30 Fixture

**Weight:** 12 lb (5kg)

**Dimensions:** 40.5 x 10.5 x 3.5" w/ 6.5" barndoors  
(103 x 27 x 9cm w/ 16.5cm barndoors)



Select LED 20

**CFX-SL20** Select LED 20 Fixture

**Weight:** 10 lb (4.5kg)

**Dimensions:** 26.5 x 13 x 3.5" w/ 6" barndoors  
(67 x 33 x 9cm w/ 15cm barndoors)

# LED Controller Specifications



**Select LED 150  
DMX Controller**

**LED-150X** Select LED 150 DMX Controller

**AC Input Voltage:** 100~240VAC 50/60Hz, 150W

**Amperage VAC:** 1.3A at 120VAC, 0.65A at 230VAC

**DC Input Voltage:** 18~36VDC, 150W

**Amperage VDC:** 7.0A at 24VDC

**Kelvin Range:** 2700K~6500K (White Mode)

**Kelvin Range:** 2500K~9900K (Color Mode)

**Dimming Range:** 100%~1%

**Weight:** 4.5 lb (2kg)

**Dimensions:** 14.5 x 4 x 3"  
(37 x 10 x 8cm)

FCC Part 15 Verification:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

FCC Part 15 Declaration of Conformity:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



KINO FLO, INC  
Select 30, Select 20  
ID: XRSCRMXTIMO101  
IC: 8879A-CRMXT101

For latest Warranty information and Certifications,  
see Kino Flo website at [www.kinoflo.com](http://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.

Kino Flo, Inc. 2840 N. Hollywood Way, Burbank, CA 91505, USA

Tel: 818 767-6528 website: [www.kinoflo.com](http://www.kinoflo.com)