Operation Manual
Diva-Lite LED 20/30

KINO FLO®
Lighting Systems

Diva-Lite LED DMX System

DIV-L20X-120U
Diva-Lite LED 20 DMX, Univ 120U
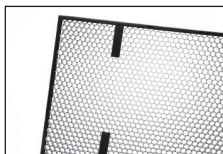
DIV-L20X-230U
Diva-Lite LED 20 DMX, Univ 230U

DIV-L30X-120U
Diva-Lite LED 30 DMX, Univ 120U

DIV-L30X-230U
Diva-Lite LED 30 DMX, Univ 230U

Included w/ Diva-Lite LED Models

LVR-SL290-P
Diva-Lite 20 Louver/HP, 90° (Included)

LVR-SL390-P
Diva-Lite 30 Louver/HP, 90° (Included)

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

Diva-Lite LED 20 DMX Kits

**Diva-Lite LED 20
DMX Kit w/ Soft Case**

KIT-DL20XB-120U
Diva-Lite LED 20 DMX Kit, Univ 120U w/ Soft Case

KIT-DL20XB-230U
Diva-Lite LED 20 DMX Kit, Univ 230U w/ Soft Case

Kit Contents:	Dimensions:
1 Diva-Lite LED 20 Fixture	31 x 7.5 x 18"
1 Soft Case	(79 x 19 x 46cm)
	Weight:
	19.5 lb
	(9kg)

**Diva-Lite LED 20
DMX Kit**

KIT-DL20X-120U
Diva-Lite LED 20 DMX Kit, Univ 120U w/ Travel Case

KIT-DL20X-230U
Diva-Lite LED 20 DMX Kit, Univ 230U w/ Travel Case

Kit Contents:	Dimensions:
1 Diva-Lite LED 20 Fixture	28.5 x 8.5 x 19.5"
1 Travel Case	(72 x 22 x 49.5cm)
	Weight:
	26 lb
	(12kg)

**Diva-Lite LED 20
DMX Kit (2-Unit)
w/ Flight Case**

KIT-DL22X-120U
Diva-Lite LED 20 DMX Kit, Univ 120U (2-Unit)
w/ Flight Case

KIT-DL22X-230U
Diva-Lite LED 20 DMX Kit, Univ 230U (2-Unit)
w/ Flight Case

Kit Contents:	Dimensions:
2 Diva-Lite LED 20 Fixture	22.5 x 16 x 33.5"
1 Flight Case	(57 x 41 x 85cm)
	Weight:
	58 lb
	(26kg)

Diva-Lite LED 30 DMX Kits

**Diva-Lite LED 30
DMX Kit w/ Soft Case**

KIT-DL30XB-120U
Diva-Lite LED 30 DMX Kit, Univ 120U w/ Soft Case

KIT-DL30XB-230U
Diva-Lite LED 30 DMX Kit, Univ 230U w/ Soft Case

Kit Contents:	**Dimensions:**
1 Diva-Lite LED 30 Fixture	42.5 x 7.5 x 16.5"
1 Soft Case	(108 x 19 x 42cm)
	Weight:
	23 lb
	(10kg)

**Diva-Lite LED 30
DMX Kit w/ Flight Case**

KIT-DL30X-120U
Diva-Lite LED 30 DMX Kit, Univ 120U w/ Flight Case

KIT-DL30X-230U
Diva-Lite LED 30 DMX Kit, Univ 230U w/ Flight Case

Kit Contents:	**Dimensions:**
1 Diva-Lite LED 30 Fixture	46 x 11 x 16.5"
1 Flight Case	(117 x 28 x 42cm)
	Weight:
	43 lb
	(19.5kg)

Mounting Procedures

Mounted on a baby stand.

Mounted to pipe grid.

Note: When hanging in a studio, loop a safety cord through the metal ring provided on the back of the fixture.

The Center Mount has a ball and socket design with a lockdown knob. To orient the fixture, loosen knob, position the fixture, then lock down the knob.

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)
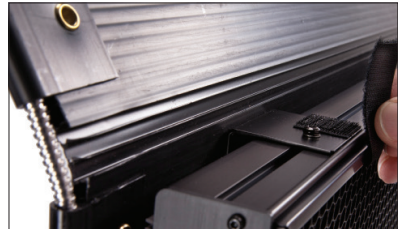
Baby Offset Arm

MTP-B41F
Kino Offset w/
Baby Receiver (16mm)

The Baby Offset Arm **(MTP-B41F)** allows fixtures to mount on the center of a stand or it can also be under slung from a baby stand to use as an up light.

Applying Louver

The Louver is fastened to the fixture with 4 Velcro straps.

Power

AC Input
The Diva-Lite LED is powered AC and includes an IEC connection. It also includes a 12ft power cord with a locking IEC connector.

It includes a built-in power supply with universal input from 100-240VAC.

Ambient Operating Temperature

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

DC Input

The Diva-Lite LED 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) 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 Diva-Lite LED has an **"AUTO TERMINATE"** feature. The last fixture that does not have an XLR cable attached to the DMX "Out" port willautomatically 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 p**osition, 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.
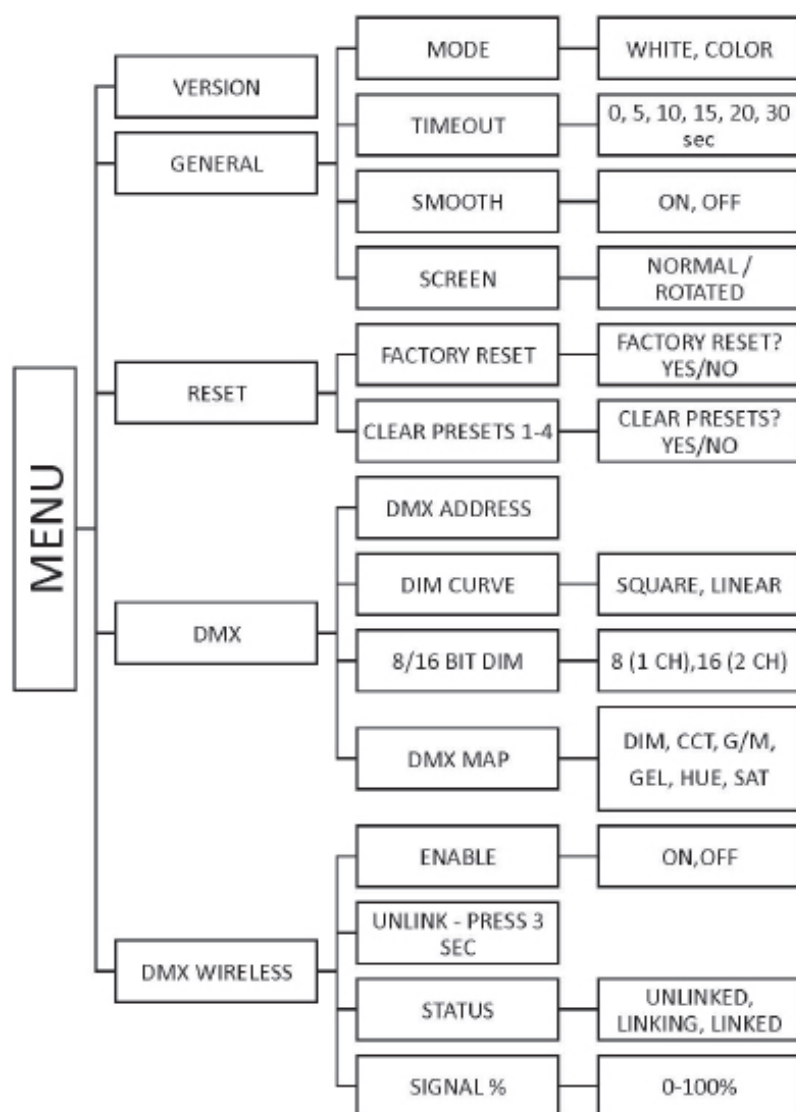
F) Mode: Press to navigate from Dim to Kelvin, G/M, Gel, Hue and Saturation settings. When in sub-menus, pressing Mode always returns you to main display. When DMX is applied, use Mode to access DMX channel on main display. *Tip*: Long press will bring you back one step.

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 Diva-Lite LED has an "**AUTO TERMINATE**" feature. The last fixture that does not have an XLR cable attached to the DMX "Out" port will automatically terminate.

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```
MENU ─┬─ VERSION
      │
      ├─ GENERAL ─┬─ MODE ──────────── WHITE, COLOR
      │           ├─ TIMEOUT ───────── 0, 5, 10, 15, 20, 30 sec
      │           ├─ SMOOTH ────────── ON, OFF
      │           └─ SCREEN ────────── NORMAL / ROTATED
      │
      ├─ RESET ───┬─ FACTORY RESET ─── FACTORY RESET? YES/NO
      │           └─ CLEAR PRESETS 1-4 ─ CLEAR PRESETS? YES/NO
      │
      ├─ DMX ─────┬─ DMX ADDRESS
      │           ├─ DIM CURVE ─────── SQUARE, LINEAR
      │           ├─ 8/16 BIT DIM ──── 8 (1 CH), 16 (2 CH)
      │           └─ DMX MAP ───────── DIM, CCT, G/M, GEL, HUE, SAT
      │
      └─ DMX WIRELESS ─┬─ ENABLE ───────────── ON, OFF
                       ├─ UNLINK - PRESS 3 SEC
                       ├─ STATUS ───────────── UNLINKED, LINKING, LINKED
                       └─ SIGNAL % ──────────── 0-100%
```

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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 Diva-Lite 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.

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.

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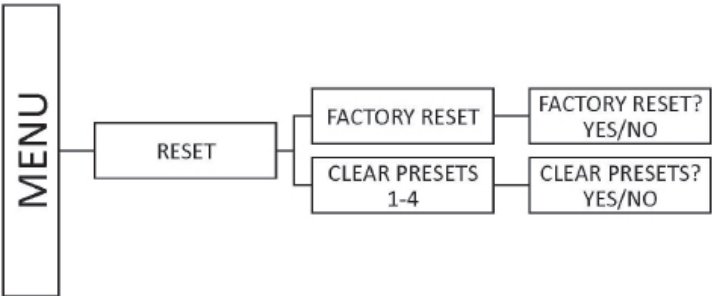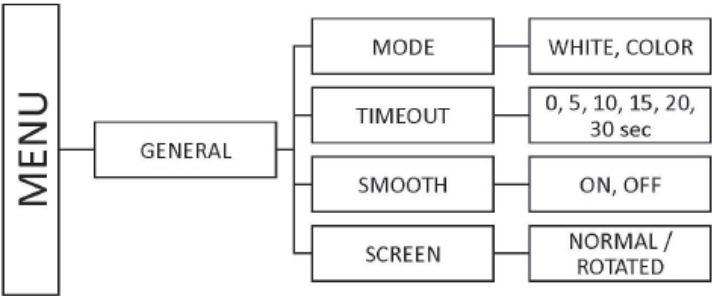
The **Hue** angle and **Saturation** values are based on a HSV / RGB model where 0° = red, 120° = green and 240° = blue.

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.

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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 Diva-Lite 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.
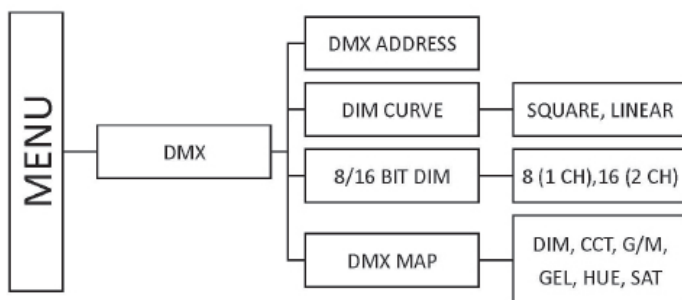
Color Mode
In Color mode, the Diva-Lite LED operates on six DMX channels using DMX512 while in the default 8 Bit Dim mode. The first channel operates dimming; 2nd channel operates Kelvin color temperature control from 2500K to 9900K; 3rd channel operates G/M; 4th channel operates the Gel; 5th channel 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

```
         ┌──────────────────┐
         │   DMX ADDRESS    │
         ├──────────────────┤         ┌──────────────────┐
M        │    DIM CURVE     │─────────│  SQUARE, LINEAR  │
E    ┌─────┐ ├──────────────┤         ├──────────────────┤
N ───│ DMX │─│  8/16 BIT DIM│─────────│ 8 (1 CH),16 (2 CH)│
U    └─────┘ ├──────────────┤         ├──────────────────┤
         │                  │         │  DIM, CCT, G/M,  │
         │    DMX MAP       │─────────│  GEL, HUE, SAT   │
         └──────────────────┘         └──────────────────┘
```

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 <u>with</u> 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.
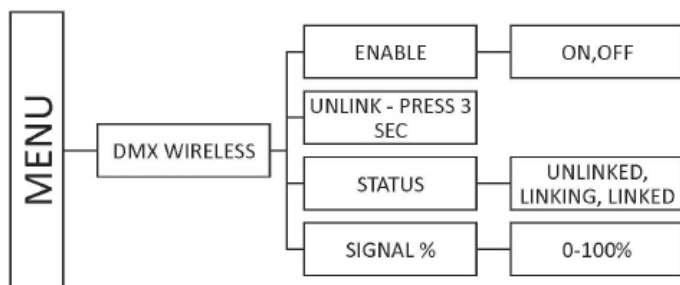
8/16 Bit DIM
Default is **8 Bit**. **16 Bit Dim** allocates an additional DMX channel for the Dim input, one channel for the upper 8 Bits and another channel for the lower 8 Bits.

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 Diva-Lite 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.

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: Fixture 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.

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Accessories

	DFS-SL30-H	Diva-Lite 30 Flozier, Half
	DFS-SL20-H	Diva-Lite 20 Flozier, Half

	DFS-SL30-S	Diva-Lite LED 30 Snapbag w/ 2 x Diffusion
	DFS-SL20-S	Diva-Lite LED 20 Snapbag w/ 2 x Diffusion

	LVR-SL340-S	Diva-Lite LED 30 Snapgrid 40°
	LVR-SL240-S	Diva-Lite LED 20 Snapgrid 40°

	LVR-SL390-P	Diva-Lite 30 Louver/HP 90°
	LVR-SL360-P	Diva-Lite 30 Louver/HP 60°
	LVR-SL290-P	Diva-Lite 20 Louver/HP 90°
	LVR-SL260-P	Diva-Lite 20 Louver/HP 60°

	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)

Cases

	BAG-SL30 **BAG-SL20**	Diva-Lite LED 30 Soft Case Diva-Lite LED 20 Soft Case
	KAS-DL30 **KAS-DL20**	Diva-Lite LED 30 Flight Case Diva-Lite LED 20 Travel Case
	KAS-DL22	Diva-Lite LED 20 Flight Case (2)

Diva-Lite LED Fixture Specifications

Diva-Lite LED 20 DMX

DIV-L20X   Diva-Lite LED 20 DMX

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: 14.5 lb (6.5kg)
Dimensions: 25 x 13 x 6"
(63.5 x 33 x 15cm)

Diva-Lite LED 30 DMX

DIV-L30X   Diva-Lite LED 30 DMX

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: 17 lb (8kg)
Dimensions: 39 x 10.5 x 6"
(99 x 27 x 15cm)

For latest Warranty information and Certifications,
see Kino Flo website at 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.

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