Quick Start Guide
FreeStyle Air Mini LED
(True Match Firmware 6.0)
(RDM)

LED-140X

KINO FLO
Lighting Systems

FreeStyle Air Mini LED DMX System

SYS-FAMINI
FreeStyle Air Mini LED DMX System, Univ

Each FreeStyle LED DMX System includes:

1   FreeStyle Air Mini LED Panel (**PAN-AMINI**)
1   Mounting Plate (**MTP-BG41S**)
1   FreeStyle 4/Extension, 25ft (**X12-F425**)
1   LED DMX Controller (**LED-140X**)
1   SnapBox w/ 2 x Diffusion (**DFS-FAM**)

FreeStyle Air Mini System Components

PAN-AMINI	FreeStyle Air Mini Panel w/ Harness
MTP-BG41S	KinoGrip 41K Mount w/ 5/8" Baby Receiver Short (16mm)
X12-F425	FreeStyle/4 Extension, 25ft
LED-140X-120U FreeStyle 140 LED DMX Controller, Univ 120U **LED-140X-230U** FreeStyle 140 LED DMX Controller, Univ 230U	
DFS-FAM	FreeStyle Air Mini SnapBox w/ 2 x Diffusion

FreeStyle Air Mini LED DMX Kit

FreeStyle Air Mini LED DMX Kit w/ Soft Case

KIT-FAMINI
FreeStyle Air Mini LED DMX Kit w/ Soft Case, Univ

Kit Contents:

1 FreeStyle Air Mini LED Panel (**PAN-AMINI**)
1 MTP-BG41S Mount w/ Baby Receiver Short (16mm) (**MTP-BG41S**)
1 FreeStyle 4/Extension, 25ft (**X12-F425**)
1 FreeStyle 140 LED DMX Controller (**LED-140X-120U/230U**)
1 SnapBox w/ 2 x Diffusion (**DFS-FAM**)
1 Soft Case (**BAG-FAM**)

Dimensions:
25.5 x 9.5 x 15" (65 x 23 x 38cm)

Weight:
19.5 lb (9kg)

Power

AC Input
The FreeStyle 140 LED DMX Controller is powered AC and includes an IEC connection. It also includes a 12ft power cord with a locking IEC connector.

The FreeStyle 140 LED DMX has a built-in power supply with universal input from 100-240VAC.

Ambient Operating Temperature
The FreeStyle 140 LED DMX is designed to operate at temperatures from 14°F to 104°F (-10°C to 40°C).

DC Input
The FreeStyle 140 LED 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: 16**

FreeStyle Harness

The harness connects directly to the controller. Connect the harness to the controller. Align the key ways on the harness connector with the oval **Logo** at the top with the circular receptacle on the ballast. Rotate the silver locking ring until it clicks into the lock position.

Extension Cable

X12-F425

The FreeStyle LED fixture can operate remotely from the controller with the extension cable up to 50ft (2 x 25ft). Remote operation of the controller provides more rigging options.

To connect Harness to Extension Cable, align oval **Logos** on the Harness and Extension. Rotate the silver locking ring until it clicks into the locked position.

Mounting the Fixture

The standard mount (**MTP-BG41S**) comes with a 5/8" Baby Receiver Short Lollipop that clamps into a grip head. The ball and socket mount allows the fixture to be oriented in a broad range of angles.

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 attachment points for a safety chain.

To remove the plate, pull up on the locking pin and reverse the mounting procedure.

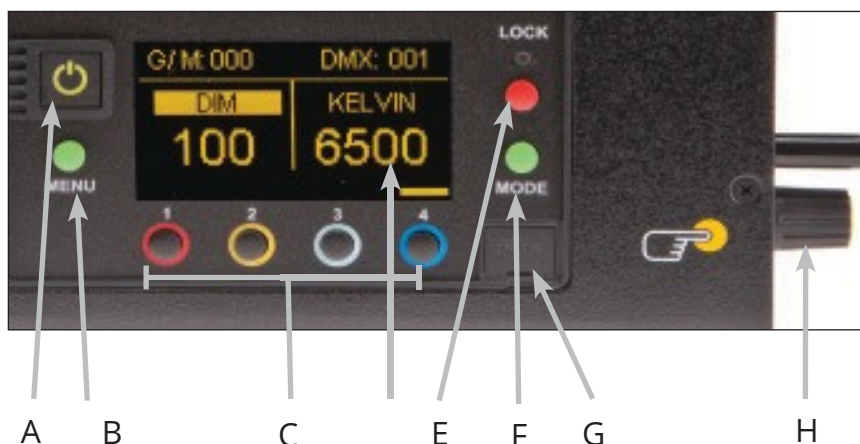Turn the knob to loosen or tighten the mount.

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)

Control Panel - White Mode

A   B   C   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, DMX Wireless, Camera LUT and Color Space.
Shortcut: While on control screen, press and hold for 3 seconds to switch through menus **White, Gels & Hue, RGB, CIE xy**.

C) 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 custom store 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 displayed presets to default factory settings.
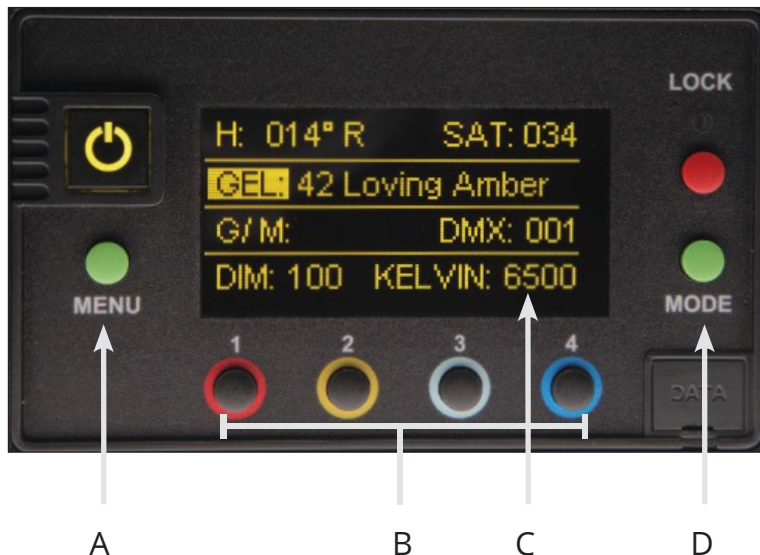
F) Mode: Press to navigate from Dim to Kelvin and G/M settings.
When in sub-menus, pressing Mode always returns you to main display. When DMX is applied, use Mode to access DMX channel on main display.
Shortcut: Long press will bring you back one step.

G) Data Port: Mini B USB for firmware updates.

H) Control Knob: Manually adjusts Dim, Kelvin, G/M levels and DMX address.
Press the Control knob to toggle between **Fine** and **Coarse** increments or when selecting options within menus.

DMX Note: The LED-140X 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 - Gels/Hue Mode

A   B   C   D

Gels/Hue Mode

A) Menu:
Provides access to menu options such as General settings (**Gels/Hue** Mode),
Reset, DMX, DMX Wireless, Camera LUT and Color Space.
Shortcut: While on control screen, press and hold for 3 seconds to switch
through menus **White, Gels & Hue, RGB, CIE xy**.

B) 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
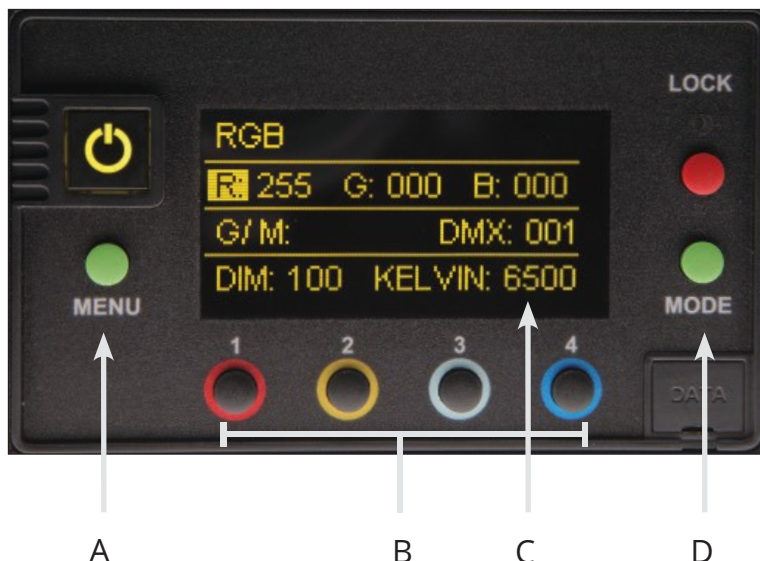settings.

C) 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.

D) Mode:
Press to navigate from Dim to Kelvin, G/M, Gel, Hue and Saturation settings. When on
the Gel function, pushing the Control knob in/out will apply the gel or remove the gel.
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. Shortcut Tip: Long press
will bring you back one step.

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Control Panel - RGB Mode

A   B   C   D

RGB Mode

A) Menu:
Provides access to menu options such as General settings (**RGB Mode**), Reset, DMX, DMX Wireless, Camera LUT and Color Space.
Shortcut: While on control screen, press and hold for 3 seconds to switch through menus **White, Gels & Hue, RGB, CIE xy**.

B) 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, and RGB settings.
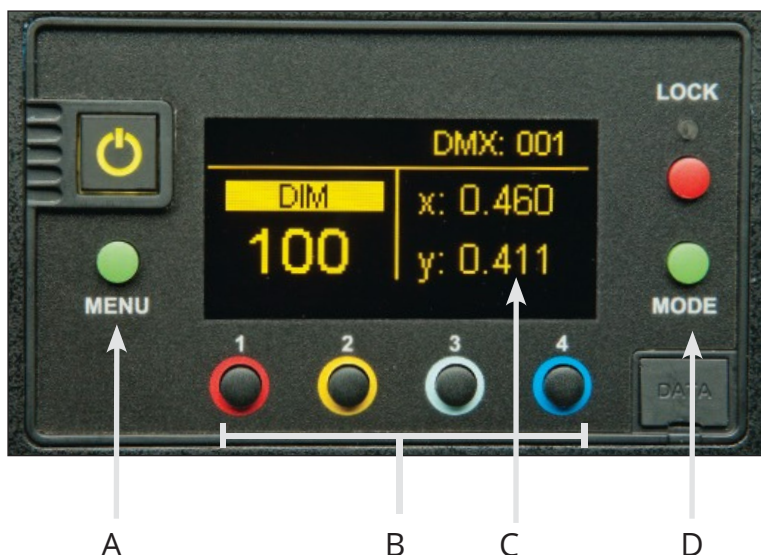
C) Display:
Provides access to Dim, Kelvin, G/M, RGB and DMX channel. Factory reset will show: Dim = 10%, Kelvin = 2700K, G/M = 000, DMX = 001.

D) Mode:
Press to navigate from Dim to Kelvin, G/M, RGB 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. Shortcut: Long press will bring you back one step.

Control Panel - CIE xy

A   B   C   D

CIE xy Mode

A) Menu:
Provides access to menu options such as General settings (**CIE xy mode**), Reset, DMX, DMX Wireless, Camera LUT and Color Space.
Shortcut: While on control screen, press and hold for 3 seconds to switch through menus **White, Gels & Hue, RGB, CIE xy**..

B) Preset Buttons:
Factory defaults left to right are: 2700K, 3200K, 5000K and 6500K. User can also use these preset buttons to store custom xy settings.

C) Display:
Provides access to Dim, CIE xy coordinates and DMX Channel. Factory reset will show: Dim = 10%, x = 0.460 , y = 0.411, G/M = 000, DMX = 001.

D) Mode:
Press to navigate from Dim to xy 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.
Shortcut: Long press will bring you back one step.

Camera LUT

The **Camera LUT** (Look-up Tables) feature harmonizes the Kino Flo light sources to the camera. Depending on the camera and the Kelvin setting, some differences are very subtle, while others can be more dramatic.

The corrections are applied as a **CIE xy** correction at each CCT (Kelvin) setting. The default setting is targeting the CIE xyz response (human eye).

Press the green menu button to the left of the display screen and scroll down to **Camera LUT**, then press the control knob. Menu with camera selection will be displayed. Turn the control knob and press to select camera setting:

C1 Arri Alexa
C2 Sony Venice
C3 Panavision DXL
C4 Panasonic Varicam

The camera code (C1 for Arri Alexa), for example, will appear on the main menu between **DIM** and **CCT** to designate that a camera setting is active. Note: When the controller is reset, the camera settings will go to Kino Flo Default mode.

Color Space

Color Space defines the RGB color space used and only affects color – not Kelvin. It is used in **RGB** mode and **Hue Angle** and **Saturation**. The RGB color space defines the value of Red, Green, and Blue primaries (in CIE xy) and the white point is fixed at 6500 Kelvin.

Press the green menu button to the left of the display screen and scroll down to **Color Space**, then press the control knob. Menu with color selection will be displayed. Turn the control knob and press to select Color Space options:

rec 709 / sRGB
P3 D65
rec 2020

The color space **rec 709 / sRGB** is commonly used on computer monitors, SDTV and HDTV television. There are slight gamma variations between rec 709 / sRGB, but not enough to separate into 2 color spaces.

The color space **P3 D65** is a common color space for digital movie projection.

The color space **rec 2020** is used in ultra high definition television (UHDTV).

The color space is used when the controller is set to the RGB mode and when set to the Hue Angle/ Saturation mode.

In **RGB** mode – the color space designation will be displayed at the top of the menu.
When changing the Red, Blue or Green values, the Kelvin will be locked in at 6500 for all color spaces. When the Kelvin is locked in, CCT will be displayed as CCT*.
When using Green/Magenta the CCT value is unlocked and color space selection has no impact.

In **Hue Angle/Saturation** mode – the color space designation will be displayed on the Gel line and GEL will be displayed as GEL* and CCT will be displayed as CCT*. The Color space will be displayed only when Hue Angle and Saturation are being used. When using Green/Magenta or Gel, the CCT will be unlocked and color space selection has no impact.

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Fixture Specifications

FreeStyle Air Mini

PAN-AMINI   FreeStyle Air Mini Panel w/ Harness

Weight: 3 lb (1kg)
Dimensions: 21 x 2 x 13"
                            (53 x 5 x 33cm)

LED Controller Specifications

**FreeStyle 140 LED
DMX Controller**

LED-140X   FreeStyle 140 LED DMX Controller

AC Input Voltage: 100~240VAC 50/60Hz, 150W
Amperage VAC: 1.25A at 120VAC, 0.65A at 230VAC
DC Input Voltage: 18~36VDC, 150W
Amperage VDC: 6.25A at 24VDC
Kelvin Range: 2500K~9900K
Dimming Range: 100%~1%
Weight: 4.5 lb (2kg)
Dimensions: 9.5 x 7.5 x 2.5"
                            (24 x 19 x 6cm)

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

FreeStyle Air Mini & LED-140X

ID: XRSCRMXTIMO101
IC: 8879A-CRMXT101

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced. The luminaire is intended for professional use only.

3170830

For full operation manual, 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.

Kino Flo, Inc. 2840 N. Hollywood Way, Burbank, CA 91505, USA
Tel: 818 767-6528 website: www.kinoflo.com