Quick Start Guide
FreeStyle & GT
41, 31, 21 LED

(True Match® Firmware 5.0)

(RDM)

LED-152X

KINO FLO®
Lighting Systems

FreeStyle Systems

SYS-F41U   FreeStyle 41 LED DMX System, Univ

SYS-F41TU FreeStyle/GT 41 LED DMX System, Univ

SYS-F31U   FreeStyle 31 LED DMX System, Univ

SYS-F31TU FreeStyle/GT 31 LED DMX System, Univ

SYS-F21U   FreeStyle 21 LED DMX System, Univ

SYS-F21TU FreeStyle/GT 21 LED DMX System, Univ

Each FreeStyle LED System consists of:

1 FreeStyle LED Fixture or 1 x FreeStyle/GT LED Fixture
1 Mounting Plate
1 Extension Cable
1 LED Controller

FreeStyle System Components

CFX-F41   FreeStyle 41 LED Fixture
CFX-F31   FreeStyle 31 LED Fixture
CFX-F21   FreeStyle 21 LED Fixture

CFX-F41T   FreeStyle/GT 41 LED Fixture
CFX-F31T   FreeStyle/GT 31 LED Fixture
CFX-F21T   FreeStyle/GT 21 LED Fixture

MTP-BG41   KinoGrip 41K Mount w/
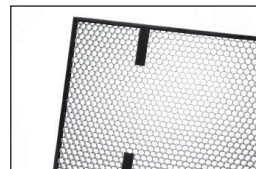   Baby Receiver (16mm)

X12-F425   FreeStyle/4 Extension, 25ft

LED-152X-120U
FreeStyle 152 LED DMX Controller, Univ 120U

LED-152X-230U
FreeStyle 152 LED DMX Controller, Univ 230U

Included w/ all FreeStyle & GT Fixtures

LVR-SL290-P   FreeStyle 21 Louver/HP, 90°

LVR-SL390-P   FreeStyle 31 Louver/HP, 90°

LVR-SL490-P   FreeStyle 41 Louver/HP, 90°

Power

AC Input
The FreeStyle 152 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 152 LED DMX has a built-in power supply with universal input from 100-240VAC.

Ambient Operating Temperature
The FreeStyle 152 LED DMX is designed to operate at temperatures from 14°F to 104°F (-10°C to 40°C).

DC Input

The FreeStyle 152 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**
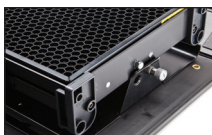
FreeStyle Fixture Assembly

The FreeStyle LED Fixture is comprised of a removable Fixture Shell, LED panel and Louver. The Louver is held in place with Velcro fasteners.

The FreeStyle/GT includes Gaffer Tray in place of Plastic Shell.

To remove the LED panel from the fixture housing, press the locking pin and turn thumbscrew to release LED panel.

Lift LED panel from metal tray.

Slide LED panel from fixed pins.

To replace, reverse the procedure.

Removable Mount

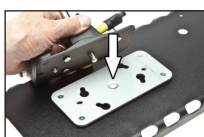Align the center pin of the mounting plate to the center hole on the mating plate.

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.

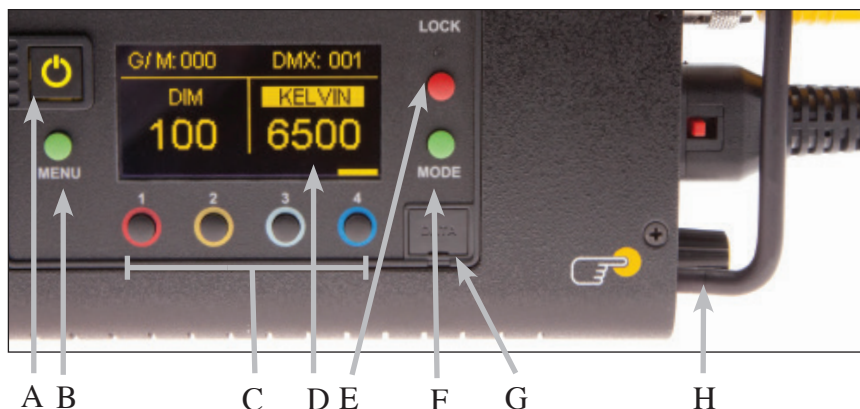The **yellow wire loop** provides an attachment point for a safety chain.

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

The FreeStyle/GT Gaffer Tray & LED panel also have a mating plate to accept the twist-on mount plate.

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, 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** and **FX**).

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 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 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: Each LED Fixture 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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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** and **FX**).

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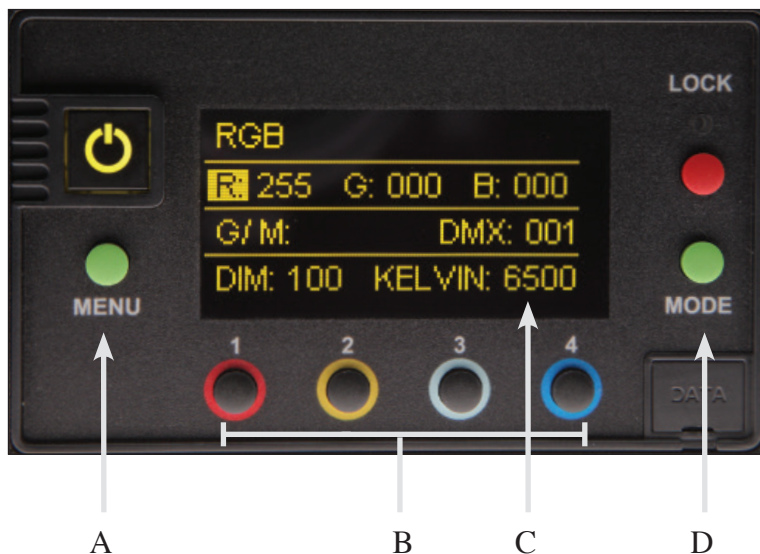
C) Display:
Provides access to Dim, Kelvin, G/M, Gel, Hue/Saturation and DMX channel. Factory reset will show: Dim = 10%, Kelvin = 2700K, G/M = 000, DMX = 001.

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.

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** and **FX**).

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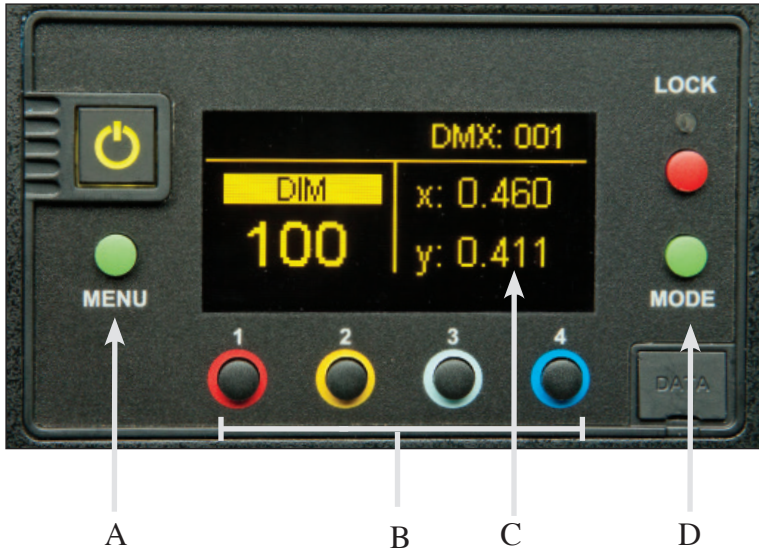
C) Display:
Provides access to Dim, Kelvin, G/M, RGB and DMX channel.
Factory reset will show: Dim = 10%, Kelvin = 2700K, G/M = 000, DMX = 001.

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 or 3 seconds to switch through menus (**White, Gels & Hue, RGB, CIE xy** and **FX**).

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.

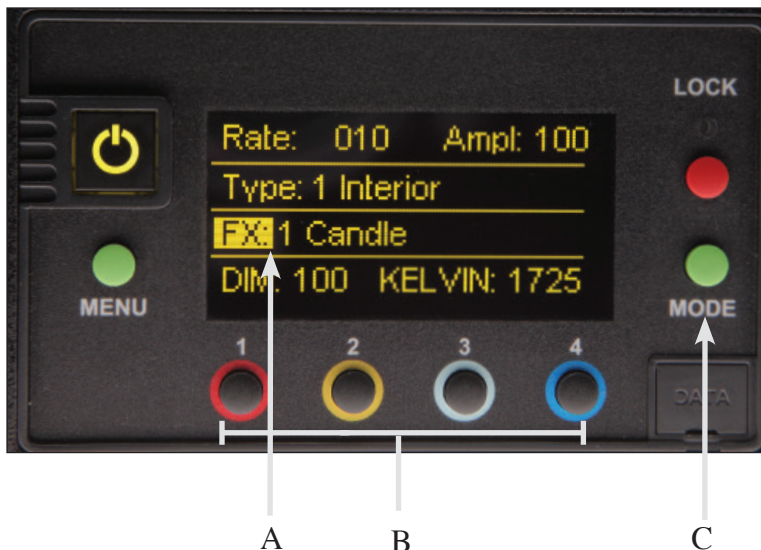**C) Display:**
Provides access to Dim, CIE xy coordinates and DMX Channel.
Factory reset will show: Dim = 10%, x = 0.460 , y = 0.411, G/M = 000, DMX = 001.

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.

Control Panel - FX (Effects)

A   B   C

FX (Effects) Mode

FX mode provides access to effects including Candle, Fire, TV, Police, Lightning, Paparazzi, Pulse and Scroll. Candle mode used as an example:

A) FX Option:
Choose the desired FX Mode by rotating the control knob. When on the desired effect, there will be several pre-programmed effects as well as control parameters that can be altered.

B) Preset Buttons:
In FX Mode, **Kelvin** custom settings and any control functions displayed such as **Rate** and **Amplitude (Ampl)** can be saved as a preset. Chosen values 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**. This method will reset all buttons in all Modes. Shortcut: If only want to clear presets for **Candle** Mode, hold **Lock** button for 3 seconds while Candle mode is displayed.

C) Mode:
Press to navigate from Dim to Kelvin and FX settings.
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**. There are a few instances in the FX (Effects) mode that are also affected when color is used. 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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LED Fixture Specifications

FreeStyle LED

CFX-F41   FreeStyle 41 LED Fixture

Weight: 16 lb (7kg)
Dimensions: 52.5 x 4 x 9" w/ 6" barndoors
(133 x 10 x 23cm w/ 15cm barndoors)

CFX-F31   FreeStyle 31 LED Fixture

Weight: 15 lb (7kg)
Dimensions: 40.5 x 3.5 x 11" w/ 6.5" barndoors
(103 x 9 x 28cm w/ 16.5cm barndoors)

CFX-F21   FreeStyle 21 LED Fixture

Weight: 11.5 lb (5kg)
Dimensions: 26.5 x 3.5 x 13" w/ 6" barndoors
(67 x 9 x 33cm w/ 15cm barndoors)

FreeStyle/GT LED

CFX-F41T FreeStyle/GT 41 LED Fixture

Weight: 12.5 lb (6kg)
Dimensions: 50 x 2.5 x 8"
(127 x 6.5 x 20cm)

CFX-F31T FreeStyle/GT 31 LED Fixture

Weight: 11.5 lb (5kg)
Dimensions: 37.5 x 2.5 x 9.5"
(95 x 6.5 x 24cm)

CFX-F21T FreeStyle/GT 21 LED Fixture

Weight: 9 lb (4kg)
Dimensions: 23.5 x 2.5 x 11.5"
(60 x 6.5 x 29cm)

**FreeStyle LED
Panel Only**

PAN-F41   FreeStyle 41 Panel Only

   Weight: 10 lb (4.5kg)
   Dimensions: 49.5 x 2.5 x 7.5"
               (126 x 6.5 x 19cm)

PAN-F31   FreeStyle 31 Panel Only

   Weight: 9 lb (4kg)
   Dimensions: 37.5 x 2.5 x 9.5"
               (95 x 6.5 x 24cm)

PAN-F21   FreeStyle 21 Panel Only

   Weight: 7 lb (3kg)
   Dimensions: 23.5 x 2.5 x 11.5"
               (60 x 6.5 x 29cm)

LED Controller Specifications

**FreeStyle 152 LED
DMX Controller**

LED-152X   FreeStyle 152 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 lb (2kg)
   Dimensions: 15 x 4.5 x 3"
               (38 x 11 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
FreeStyle & GT 41, 31 & 21 LED
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.

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ETL
C LISTED US
Intertek

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.

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