iCOLOR TILE FX 2:2

INSTALLATION GUIDE

COLOR KINETICS®

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GETTING STARTED

Welcome to a more colorful world brought to you by Color Kinetics.

This guide contains important information not only for operating your new iColor Tile FX™, but also for using it safely. For your protection, read it carefully before embarking on your colorful adventure. There are very few rules, but those that exist are there for your safety. This guide will show you how to get the most out of your Color Kinetics lighting.

Included In This Box
- (1) iColor Tile FX
- (1) Mounting Alignment Cleat
- (6) Corner Clips
- Installation Guide
- Warranty Card

Packaged Separately
- iColor Tile Lens

Additional Items Needed
- PDS-60ca 7.5V Power Supply, ITEM # 109-000015-00/01/02. One PDS-60ca 7.5V is needed for each iColor Tile FX.
- (10) #10 Fasteners (for wall mount)
- (4) Hanger wire screws/12 Ga hanger wire (for ceiling mount)
- Tools (screw gun, pliers, wire cutters, screw drivers, level)

SCOPE OF THIS USER GUIDE

The goal of this user guide is to explain in an easily understandable language the necessary steps to install iColor Tile FX and assure peak performance. Its intended use is for reference only, by a fully qualified electrician or technician. This document should never be considered a substitute for any provision of a regulation or state and/or local code.

IDENTIFICATION AND WARNINGS OF SAFETY HAZARDS

In accordance with ANSI Z535.4-2002 the following system of identifying the severity of the hazards associated with the products is used:

"**DANGER**"   Imminently hazardous situation which, if not avoided, will result in death or serious injury.

"**WARNING**" Potentially hazardous situation that, if not avoided, could result in death or serious injury.

"**CAUTION**" Potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage.

DANGER: Ensure that main power supply is off before installing or wiring iColor Tile FX and PDS-60ca 7.5V power/data supply. Failure to adhere to these instructions will result in death or serious injury.

WARNING: iColor Tile FX and PDS-60ca 7.5V power/data supply must be installed by a qualified electrician or technician in accordance with NEC and relevant local codes. Failure to comply could result in death, serious injury, or property damage.

WARNING: Do not attempt to install or use iColor Tile FX or PDS-60ca 7.5V until you read and understand the installation instructions. Failure to adhere to these instructions could result in serious injury or property damage.

WARNING: Do not use iColor Tile FX if any cables are damaged. Doing so can result in death, serious injury, or property damage.

CAUTION: iColor Tile FX has no serviceable parts. Do not attempt to open the nodes. Doing so will result in property damage and void the warranty.

CAUTION: Do not use the alignment cleat as a permanent, solitary fixture hanger. Doing so will result in property damage and void the warranty.

CAUTION: Do not use sharp tools near or on the fixture lens or cable. Doing so will result in property damage and void the warranty.

CAUTION: Do not hot swap. Ensure that power supply is off before connecting or disconnecting fixtures. Hot swapping will result in property damage and void the warranty.

NOTE: The instructions and precautions set forth in this user guide are not necessarily all-inclusive, all conceivable, or relevant to all applications as Color Kinetics cannot anticipate all conceivable or unique situations.

OWNER/USER RESPONSIBILITIES

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate iColor Tile FX in such a manner as to comply with all state and local laws, ordinances, regulations, and the American National Standards Institute Safety Code.

PLAN THE INSTALLATION

The nature of iColor Tile FX installation requires in-depth planning to ensure timely, successful installation and operation with minimal complications and down time.

INSTALLATION CONSIDERATIONS
- Consult an Electrical Inspector to approve all wiring plans.
- Refer to local and state codes for installation compliance.
- Address fixtures prior to installation. Refer to *Addressing iColor Tile FX*.
- Create a Mapping Grid. Use this grid to record light addresses and power supplies locations for easy reference.
- Employ Color Kinetics Application Engineering Services.

CONFIGURING iCOLOR TILE FX

How the iColor Tile FX is addressed depends on the method of control and the PDS-60ca 7.5V power/data supply that you choose.

PDS-60ca 7.5V DMX: The DMX version of the PDS-60ca 7.5V lets you auto-configure the light number sequentially from one to 144 for each power/data supply. To assign unique base numbers for each sequential run or set all nodes to the same number, you must download the PDS-60ca-DMX Tool from the Color Kinetics website. For complete instructions, refer PDS-60ca 7.5V User Guide and to the PDS-60ca-DMX Tool User Guide at www.colorkinetics.com/support.

PDS-60ca 7.5V Ethernet: The ethernet version of the PDS-60ca 7.5V is used in conjunction with Color Kinetics Light System Manager. The Light System Manager includes Light System Composer software and Light System Engine hardware. With Light System Manager, you can discover and map the tile light nodes through the PDS-60ca 7.5V. No addressing is required.

PDS-60ca 7.5V Preprogrammed: When using the preprogrammed PDS-60ca 7.5V no addressing is necessary.

INSTALLING iCOLOR TILE FX

WARNING: Ensure the power is off before installing iColor Tile FX. Failure to do so can result in serious personal injury and major property damage.

CAUTION: Do not hot swap. Ensure that power supply is off before connecting or disconnecting fixtures. Hot swapping will result in property damage and void the warranty.
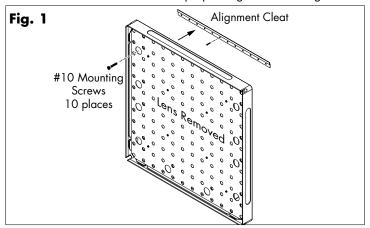
DETERMINE THE LOCATION OF THE POWER SUPPLY
- Determine a location out of direct view for the power supply(s).
  - One PDS-60ca 7.5V power/data supply is needed for every iColor Tile FX fixtures.
  - The power/data supply can be located up to 20 feet (6 m) from the iColor Tile FX fixture.
- Install the power/data supply according to the instructions in the PDS-60ca 7.5V Installation Guide.

INSTALL ICOLOR TILE FX

Wall Installation: iColor Tile FX is a direct view, wall mount lighting fixture. The mounting cleat lip is located at the top of the tile. Install all tiles with the top up to get the desired visual effects.
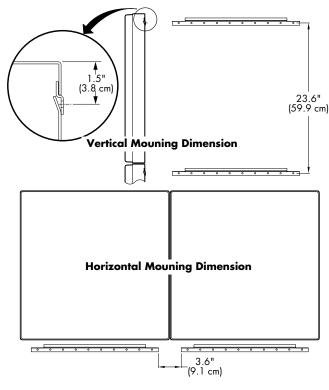
- Using a pencil or chalk line, mark the horizontal location for the tile alignment cleat.
- Align the cleat along the mark and attach to wall with nails or screws. Use a level to ensure proper alignment. See Fig. 1.

Fig. 1

Alignment Cleat

#10 Mounting Screws 10 places

Lens Removed

Note: The alignment cleat is a tool to temporarily hold the tile in proper alignment during installation. The cleat alone is not intended to support the tile in a permanent installation.

- Attach the Tile unit to the wall using #10 screws suitable for the mounting surface. See Fig. 1.
- For butt mount installations, refer to Fig. 2 for horizontal and vertical spacing
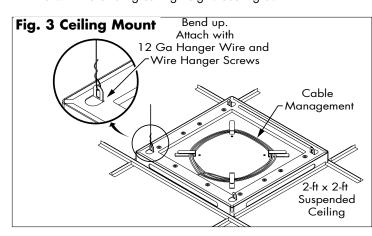
Fig. 2 Vertical & Horizontal Mounting Dimensions

1.5" (3.8 cm)

23.6" (59.9 cm)

Vertical Mouning Dimension

Horizontal Mouning Dimension

3.6" (9.1 cm)

Ceiling Installation: iColor Tile FX is designed to fit into 2-ft by 2- ft (60 cm by 60 cm) suspended ceiling frames. The mounting cleat lip is located at the top of the tile. Install tiles with the top oriented in the same direction to get the desired visual effects.
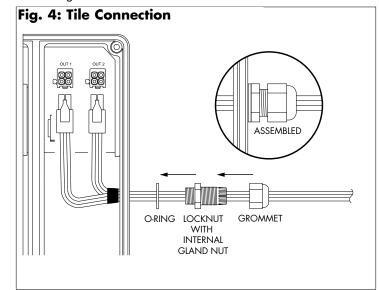
CAUTION: Suspended ceiling frames are not adequate to safely suspend iColor Tile FX. 12 Ga hanger wire and wire hanger screws are necessary for proper installation.

- Bend ceiling mount hangers perpendicular to the tile back plate. Hangers are located in each corner.
- Thread 12 Ga hanger wire through each hanger and attach to ceiling using hanger wire screws. Adjust wire length to align tile with the existing ceiling height. See Fig 3.

Fig. 3 Ceiling Mount

Bend up. Attach with 12 Ga Hanger Wire and Wire Hanger Screws

Cable Management

2-ft x 2-ft Suspended Ceiling

CONNECT LIGHTS TO THE PDS-60ca 7.5V

- Thread the connector end of the iColor Tile FX through a threaded through hole on the PDS-60ca 7.5V power/data supply. Snap the connector label #1 into the 4-pin connectors labeled Out 1. Snap the #2 connector into Out 2.

- To make the watertight connection, separate the watertight grommet and locknut.
  - Insert the locknut through O-ring and into the conduit hole and tighten. Tighten until O-ring is engaged.
  - Ensure that the cable inside of the PDS-60ca has slack, then tighten grommet over the locknut. Tighten until cable is held secure and functioning in strain relief capacity. O-ring and internal gland nut must be engaged to create a water-tight seal. See Fig. 4.

Fig. 4: Tile Connection

O-RING LOCKNUT GROMMET
WITH
INTERNAL
GLAND NUT
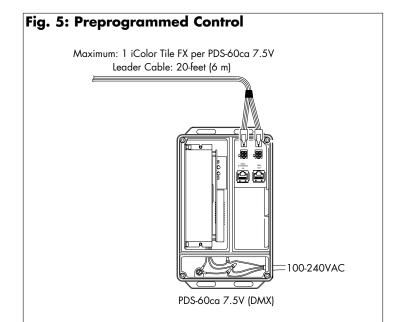
STEP 6: CONNECT DATA
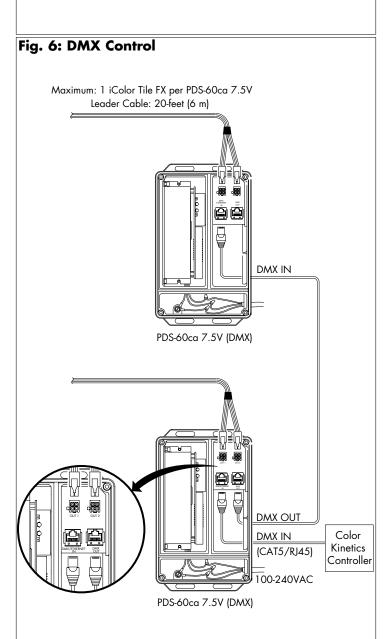
- Data is connected to the iColor Tile FX via the PDS-60ca 7.5V power/data supply.

- Data connections vary depending on the type data used with the appropriate PDS-60ca 7.5V. Refer the figures below.
  - Fig. 5: Preprogrammed control
  - Fig. 6: DMX control
  - Fig. 7: Ethernet control
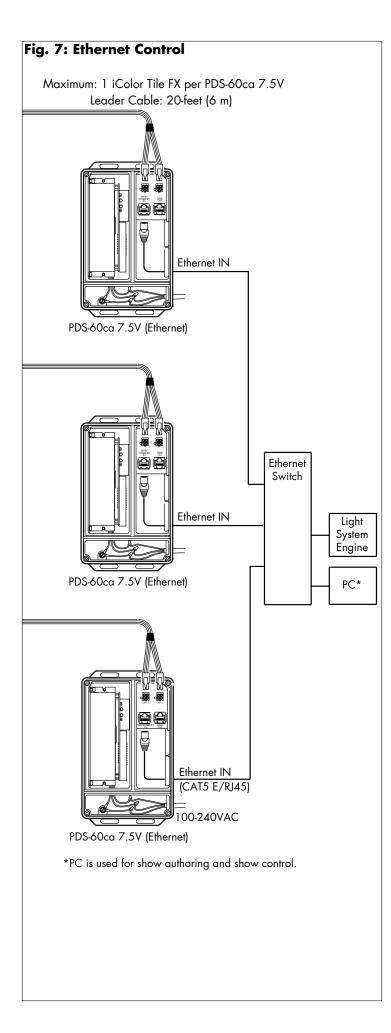
For complete instructions and wiring diagrams for your power/data supply, refer to the PDS-60ca User Guide and wiring diagrams located at www.colorkinetics.com/support.

If any problems occur during usage, unplug the product immediately and call or email:
Color Kinetics Technical Support Group:
1-888-FULL RGB or 617-423-9999 or
www.colorkinetics.com/support

Fig. 5: Preprogrammed Control

Maximum: 1 iColor Tile FX per PDS-60ca 7.5V
Leader Cable: 20-feet (6 m)

100-240VAC

PDS-60ca 7.5V (DMX)

Fig. 6: DMX Control

Maximum: 1 iColor Tile FX per PDS-60ca 7.5V
Leader Cable: 20-feet (6 m)

DMX IN

PDS-60ca 7.5V (DMX)

DMX OUT
DMX IN
(CAT5/RJ45)
100-240VAC

Color Kinetics Controller

PDS-60ca 7.5V (DMX)

Fig. 7: Ethernet Control

Maximum: 1 iColor Tile FX per PDS-60ca 7.5V
Leader Cable: 20-feet (6 m)

Ethernet IN

PDS-60ca 7.5V (Ethernet)

Ethernet IN

PDS-60ca 7.5V (Ethernet)

Ethernet IN
(CAT5 E/RJ45)
100-240VAC

PDS-60ca 7.5V (Ethernet)

Ethernet Switch

Light System Engine

PC*

*PC is used for show authoring and show control.