Installation Instructions For All

KINETICS Starcoustix PX Panel (Surface Mount Guide)

1. Product Overview:

Kinetics Starcoustix PX Panels are an out of the box, plug and play acoustic panel, with the fiberoptic star ceiling experience built right in. Out of the box, they are ready to be installed onto any finished surface.

The Starcoustix PX is designed for easy installation. Each Kinetics star panel has its own low voltage Star Engine built right in and only requires a 12vDC power connection Up to 33 Kinetics star panels may be daisy chained together which makes wiring and installation a snap.
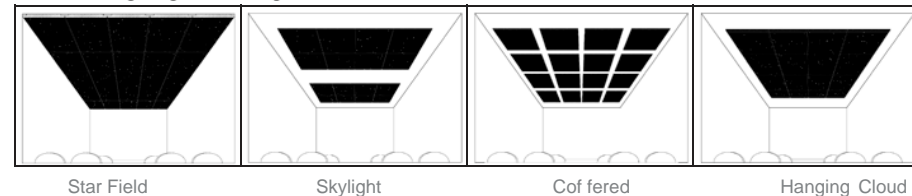
Each Starcoustix PX System starts with a Driver (power supply) that is connected to a switched, or controlled, line voltage circuit. From the Driver, a Leader Cable carries the low voltage power to the Kinetics Panel System. Then Jumper Cables daisy chain the power from one panel to the next. For installations with more than 33 star panels, use our 4 Amp power supply.

Starcoustix PX Surface Mount Panels come in four standard sizes: 24, 30 and 48 inches square, and 48" x 96". Panels are 1 or 2 inches thick, made from premium 6 pound fiberglass.
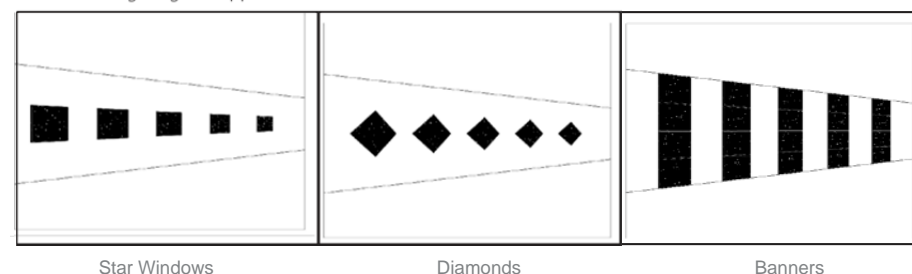
Surface Mount Panel Sizes

24"

30"

48"

2. Design Overview:

Plan your installation based on your design. These instructions are for general guide-lines, and your installation requirements may vary based on your design and job site conditions
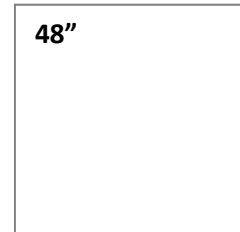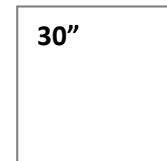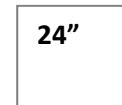
Ideas for configuring a star ceiling.

| Star Field | Skylight | Coffered | Hanging Cloud |

Ideas for configuring wall applications.

| Star Windows | Diamonds | Banners |

Starcoustix - The first family of starfield ceilings.

WARNING: Disconnect power before beginning any electrical work, and do not exceed the capacity of the circuit.

3. Before You Start

Make sure all code requirements are fulfilled. If your home theater project is going to require an electrical permit, you will be subject to the local electrical code requirements. Though it's not always easy to tell if your project requires a permit, it is best to consult with your local permitting authority.

Electrical codes generally follow the National Electric Code (NEC) which is published by the National Fire Protection Association. The main purpose of the NEC is to prevent hazards to human health and safety from electrical shock, tendency to start or perpetuate a fire, and production of toxic fumes when exposed to fire.

Starcoustix PX Panels are made with "Class A" fiberglass and covered in a "Class A" fabric. Wiring harnesses are made from CLS and CL3 or higher rated materials. If installing in a plenum, installer must supply CL2P, CL3P, or CMP, and as always, confirm and conform to local codes before installing.

4. Packing List Each Kinetics Panel ships with the following:

Panel size	Number of panels per Master Pack	Mounting Points per/ panel	Mounting Anchors, Dry - wall EZ Anchors, Screw (sets/master)	Jumper Cables per Master	Powder free latex gloves	Instructions
24"	6	4	24	6	2	1
30"	6	4	24	6	2	1
48"	2	6	12	2	2	1
96"	1	10	10	0	2	1

** First time installers should purchase an Installation Kit***
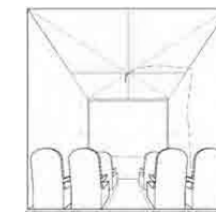
5. Quick Installation Overview

- Wear latex gloves to keep panels clean when handling
- Orient first panel
- Install Leader Cable
- Mark mounting locations
- Attach Mounting Anchors
- Turn on power
- Inspect to see that the stars are on
- Reposition Panel
- Engage hex tool
- Apply steady pressure
- Turn hex counter clockwise 1-2 turns
- DO NOT OVER TIGHTEN
- Panel installation complete
- For additional panels repeat

6. Measure Twice, Install Once

Square up the room. Just because it looks square, doesn't mean that it is square. Measure twice, since all the panels are aligned off the first panel, its alignment in the room is critical. Being a little out of square with the first panel could mean you're way out of square when you get to the end of the room, so take your time squaring up the first panel! Using masking tape, pencil marks, and chalk lines will also assist in keeping your installation square and true. Locate where your first panel will be installed.

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7. Running The Power

Based on site conditions and project design, generally you will have three options for power. 1) The recommended way is using a Remote Driver and pre-installing a Kinetics Leader Cable. 2) Pre-wire an 18 AWG wire. 3) Order the optional "Cloud Mount" anchors, and hang the panels from the ceiling by chain (note that this will require at least 4 or more inches of total height and may not be an option for low ceilings.) This allows the installer to plug the Driver to a ceiling outlet and locate the Driver on top of the panel. The third and alternate way is the Embedded Driver (See Below). **As always, check and observe local building codes.**

Option 1 - Remote Driver (Recommended Method)

The plug-in Driver is a "table top" type of power supply, with an I. E. C. connector for the input of the line voltage. The selected outlet for powering the Driver should be controlled from a remote switch or control system. Locate the Driver in a proper equipment area that is accessible and within 30 feet of the first Starcoustix PX panel (generally in the center of the ceiling.) At this point, connect the Kinetics Leader Cable and start daisy chaining the panels together, (not to exceed 33 panels) using the supplied Jumper Cables. Your leader cable should not be longer than 30 feet. Consult with Kinetics if a longer leader cable is required.
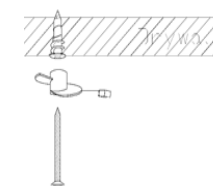
Option 2 - Embedded Driver: Only a licensed electrician should embed the Driver into a Kinetics panel. It may be necessary to install the Driver into the Surface Mount Panel where the switched line voltage is already located in the ceiling, and running new low voltage wire is not an option. This may be more common in older homes and retro fits. The Driver is a line voltage device and will require access to it (according to most electrical codes); therefore, a cut out in the panel will be required to access the Driver. **Check and observe local building codes.**
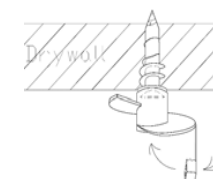
8. Mounting The First Panel

(This should be performed by at least two people and no less than three when installing the larger 48" x 96" panels)

Place the first panel on the ceiling true and square in its proper orientation (this should be performed by at least two people, and no less than three when installing the larger 48" panels.) Push the awl through the center of the round stickers to make an indent the ceiling. This is done from the finished fabric side of the panel. Once all mounting points are marked on the ceiling, remove the panel.

IMPORTANT: THE EZ ANCHORS ARE FOR DRYWALL INSTALLATION ONLY AND ARE NOT INTENDED FOR MOUNTING TO ANY OTHER MATERIAL OTHER THAN DRYWALL. ONLY USE THE EZ MOUNT ANCHORS IN DRYWALL WITH WOOD FRAMING. ALL OTHER CONDITIONS WILL REQUIRE THE INSTALLER TO SOURCE AND PROVIDE AN ALTERNATE MEANS OF ATTACHING THE MOUNTING ANCHORS.
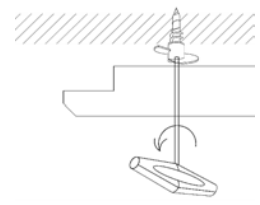
Screw the Drywall Anchor into dents you have made with the awl on the ceiling. Use the screw to anchor the yellow Mounting Anchor to the ceiling. **Check and make sure the Mounting Anchor still rotates freely.** Mount all anchors for the panel. Use a #2 Phillips screw driver to push the hex cap into place until it snaps.
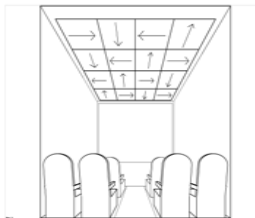
FOR CLOUD ANCHOR INSTALLATION, use the same process as above. However, install the "eye hook" in the ceiling, screw the cloud anchor into the back of the panel, and hang with desired chain length.
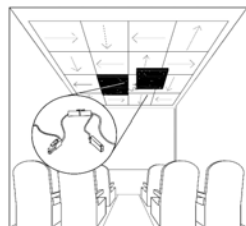
8. Mounting The First Panel *(continued)*

Connect the Leader Cable to the first panel and turn on the Driver. Inspect to see that there is power to the panel by looking for to see if the stars are illuminated. If not, check all connections and refer to the Trouble Shooting Guide. Carefully insert four Hex Drivers through the marked holes on the panels face (these are the same holes used to mark the mounting points with the awl.) Insert all four Hex Tools and engage them into each of the Mounting Anchors. While applying gentle upward pressure on the panel, rotate one of the Hex Drivers counter clockwise until it has engaged into the panel. Rotate about to two full turns, until you feel it pull up flush to the ceiling. DO NOT OVER TIGHTEN. You may find it best to engage each Mounting Anchor halfway at first, then snug the panel to the ceiling.

Rotate The Panels

Each panel is marked with an arrow on the back. This arrow indicates the panels orientation. Every panel gets rotated one quarter turn in order to provide a more random starry night experience. **Remember to rotate 90 degrees for random effect**.

9. Installing Additional Panels

Leave the plugs hanging off the side so you can connect the next panel. Connect a Jumper Cable to the first panel and run it to the location of the next panel's Star Engine. Because of the flat design of the Jumper Cable plugs, you can "sandwich" the Jumper Cables between the ceiling and panel, or run them along the 2" light cove on the back of 2" Surface Mount Panels. You may find that using white gaffers tape, glue dots, or double sided tape is helpful in organizing the Jumper Cables during installation.

Up to 33 Starcoustix PX Panels can be connected together in any configuration. If your installation requires more than 33 Kinetics Panels, then add an additional Driver and Leader Cable or use a 4 Amp driver.
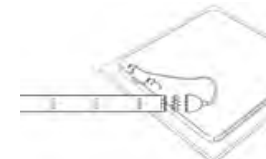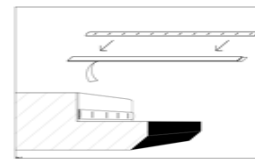
10. Installing K-Glo Lighting

Add the K-Glo Lighting Advantage to your installation to create more depth and drama. Mount the K-Glo LED Lighting Strip on the sides of the panel's light cove where you want the light to originate. Spanners are used to provide a bridge between panels for the K-Glo Lighting. Spanners are installed after the panels have been mounted. Each spanner comes with two adhesive pieces at each end. Remove the protective plastic and adhere it to the one inch high white vertical surface on the panel's light cove.

HELPFUL HINT: If, after installing the K-Glo Lighting, you notice some undesirable "light leak" at the panel's seams, cut a 10" spanner in half, remove the plastic protective tape, and lay the 5" piece on top of the seam to block out the "light leak."

11. Installing K-Glo Lighting

Up to 12 feet of K-Glo can be powered with a 1 Amp Driver. Each 4 Amp Driver will power up to 48 feet of K-Glo. It is suggested to use a separate Driver for the K-Glo so it can be controlled independently from the stars. Follow the same procedures as above for "Running The Power. NOTE: You may want to locate (or run) the Leader Cable for or the K-Glo to the outside of the panel's edge.
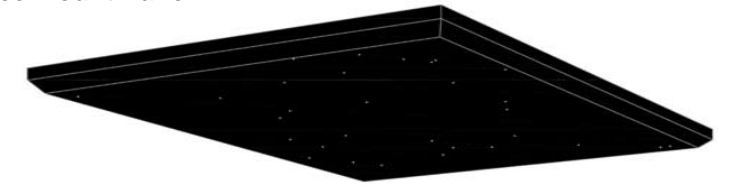
Connect the K-Glo Strip to the panel via the supplied double sided tape. Locate the K-Glo at the bottom (see above middle diagram) for the best light diffusion and to minimize the viewing angle. An end to end connector must be used to attach each of the K-Glo pieces together. **Note: Good lighting design says that you want to see the effects of the light, not the light itself.**

If dimming the K-Glo Lighting is desirable, a third party Pulse Width Modulation control is required.

12. Now turn on the switch, gaze at the stars, relax and enjoy!

Product Specifications

Surface Mount Panel

Starcoustix PX Mount Panels are produced with 1" or 2" of premium 6 lb. density acoustic fiberglass.

The power requirement per panel is 12 volts DC and draws only 0.36 watts of power. If needed optional **K-Glo** lighting is driven off a separate source.

Model/Number	2400	3000	4800
Size	24" x 24" x 1"	30" x 30" x 1"	48" x 48" x 1"
Color	Midnight Blue Onyx (Black)	Midnight Blue Onyx (Black)	Midnight Blue Onyx (Black)
Star Color Temp	6500 K	6500 K	6500 K
Number of Stars	15	30	45
Stars per sq. ft.	3.75	4.80	2.82
Weight	4 lbs.	6 lbs.	16 lbs.
Power Requirement	12v DC	12v DC	12v DC
Power Consumption	0.36w	0.36w	0.36w
Fiberglass	6 lb. density	6 lb. density	6 lb. density
Mounting	(4) Surface Anchors	(4) Surface Anchors	(4) Surface Anchors
(Cloud Anchor Option)	(2401)	(3001)	(4801)

Each panel has an 8" No Cut Zone clearly marked on the back.

Specifications are subject to change without notice. Kinetics strives to use only materials that carry ASTM E84 Class A or 1 fire rating. Low voltage lighting — not all materials carry an independent lab listing.

Starcoustix - The first family of starfield ceilings.