

Catalog #	Type	Type
Project		
Comments		Date
Prepared by		

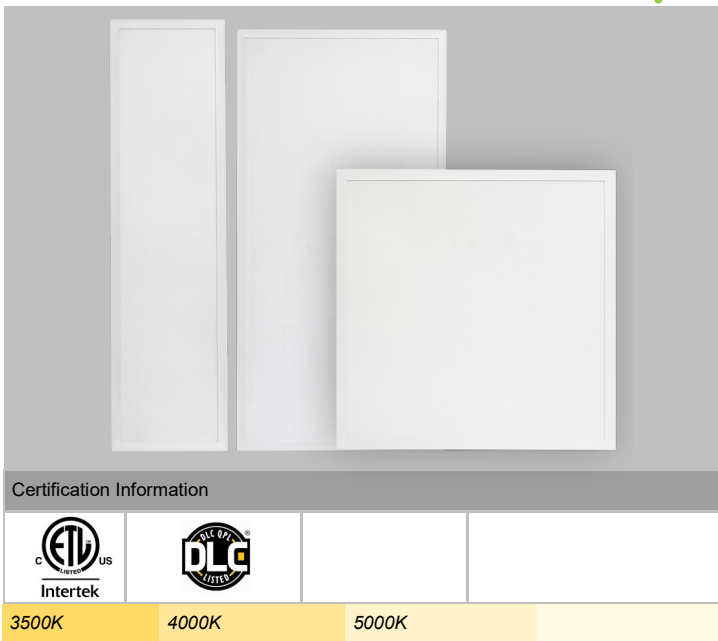
Product Overview

The IL-B2B4B14 LED Backlit Panel is a high-performance, energy-efficient lighting solution designed for commercial, institutional, and residential applications. Featuring field-selectable wattage and color temperature (CCT), this fixture offers maximum flexibility, reduces SKU inventory, and ensures optimal lighting performance. Its slim, sealed design provides uniform illumination with easy installation across multiple ceiling types.

Product Specification	Backlit Panel
Mode	IL-B2B4B14
CCT (Selectable)	3000K / 3500K / 4000K / 5000K / 6500K
Material	Aluminum frame with PC diffuser
Dimensions	2x2: 23.75" x 23.75" x 1.37" 2x4: 47.75" x 23.75" x 1.37" 1x4: 47.75" x 11.9" x 1.37"
CRI	≥ 80
Finishes	White
Wattage (Selectable)	2x2: 15W / 20W / 25W / 30W / 40W 2x4: 30W / 40W / 50W / 60W / 72W 1x4: 15W / 20W / 25W / 30W / 40W
Input Voltage	120–277V AC
Dimming	0-10V
Suitable	Suitable for damp locations
Operating Temp	-4° ~ +104°F
Certification	ETL Listed, DLC Premium

Applications

Offices, Retail Stores, Schools, Restaurants, Residential Buildings, and Commercial Spaces



Key Features

- 5 selectable wattages and 5 selectable CCT options
- Up to 130 lm/W high efficacy
- Slim, low-profile backlit design
- Sealed housing prevents dust and light leakage
- 0–10V dimming (standard)
- Wide input voltage (120–277V)
- Long lifespan with stable performance
- One SKU replaces multiple configurations

Controls & Options

- 0–10V dimming (standard)
- Compatible with sensors
- Emergency battery backup support
- Bluetooth control compatibility

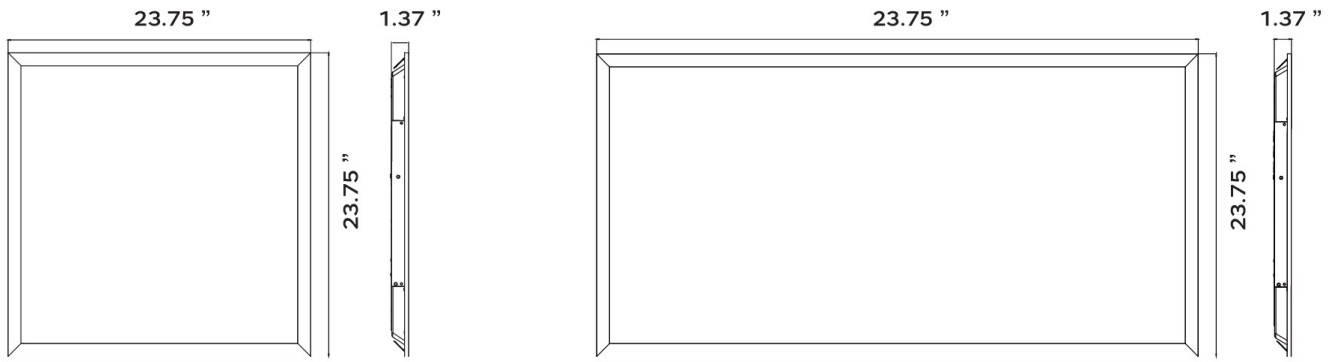
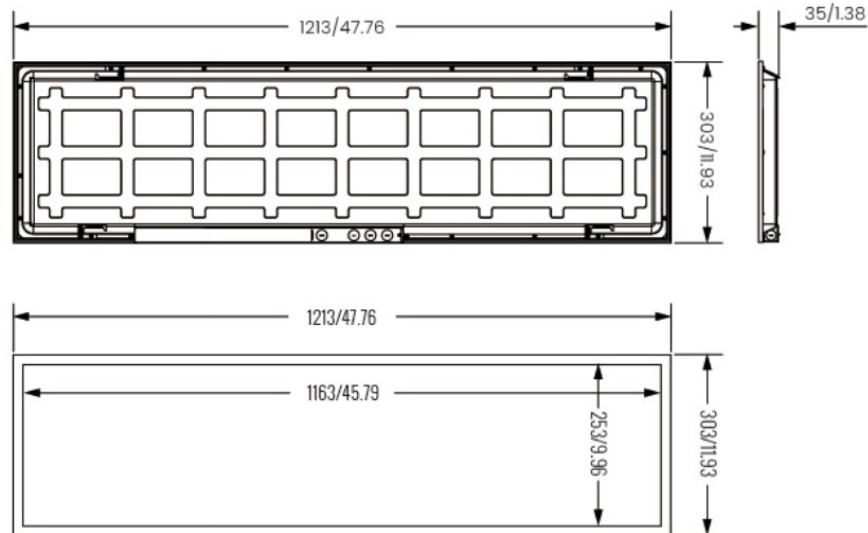
Accessories (Optional)

- Suspension mounting kit
- Surface mount kit
- Emergency battery backup
- Motion sensor

ORDERING INFORMATION

ITEM NUMBER	Sizes	WATTAGES	LUMENS	CRI	CCT	DIMMING	FINISH	OPTIONAL
IL-B2B4B14	2x2	15W / 20W / 25W / 35W / 40W	2,500 to 5,000 lm	≥80	30K/35K/40K/50K/65K	0-10V	WHITE	Suspension mounting kit Surface mount kit Emergency battery backup Motion sensor
	2x4	30W / 40W / 50W / 60W / 72W	3,750 to 9,000 lm					
	1x4	15W / 20W / 25W / 35W / 40W	2,500 to 5,000 lm					

DIMENSIONS



Accessories (Sold Separately)



Suspension mounting kits



Emergency Battery Backup



Sensor



Surface mount kit

Construction & Design

Aluminum frame (durable)

Sealed housing (dust protection, no light leaks)

Integrated driver with switches for wattage & CCT

Slim profile (~1.37" thickness)

Installation Options

- Recessed (T-bar ceiling)
- Surface mount (with kit)
- Suspension mount (with cable kit)

Extra Capabilities

Supports:

- Emergency battery backup
- Sensors
- Bluetooth control

Installation Methods

A. Recessed Mounting (T-Bar Ceiling)

- Lay fixture into T-grid ceiling
- Connect to power supply
- Secure and adjust settings

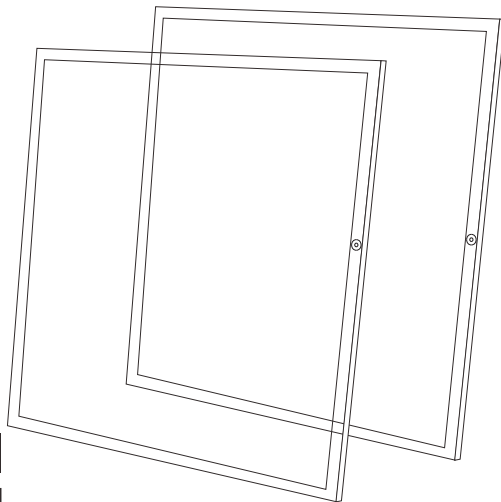
B. Surface Mounting

- Use surface mount kit
- Attach to ceiling
- Complete wiring and secure panel

C. Suspension Mounting

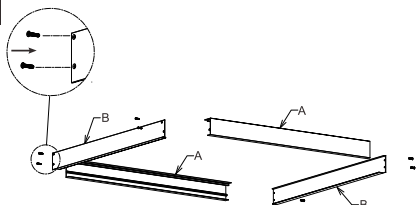
- Install cable suspension kit
- Hang fixture from ceiling
- Connect wiring and adjust settings

LED BACKLIT PANEL LIGHT INSTALLATION INSTRUCTIONS



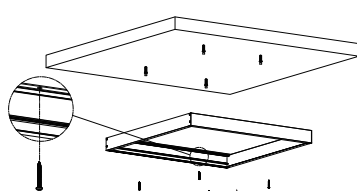
■ Surface mounted

1



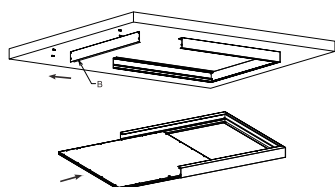
Assemble the surface mounted frame and fix by screws.

2



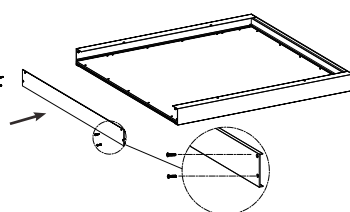
Knock the plastic anchor into ceiling, fix the surface mounted frame on the ceiling by screws.

3



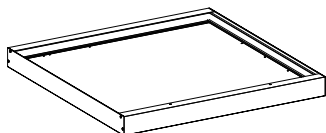
Unscrew the side frame then take out, connect the panel light to power supply, insert the panel light into the frame.

4



Fix the side frame back by screw.

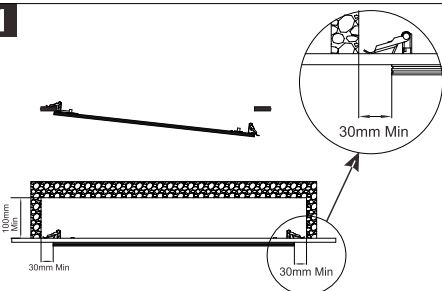
5



Make sure the frame and panel light are firmly fixed, turn on the power.

Recessed Mounting(Clips)

1



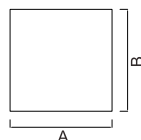
30mm Mir

in)

2



Cut Out Sizes		
Type	A(mm)	B(mm)
PL2X2	578	578
PL1X4	1188	278
PL2X4	1188	578



Clips can be purchased separately as an accessory.

Warning:

Input wire diameter $\geq 0.75\text{mm}^2$;

Product modification and improper installation are not valid for warranty!

Safety Instruction:

- Basic safety precautions should always be followed when installing, including the following:
1. Read instructions carefully before installing.
 2. This LED Panel requires professional installation and maintenance.
 3. The power supply of the LED Panel should be powered by a dedicated external LED driver.
 4. Disconnect the power supply before installing or maintenance.
 5. Make sure the wires have been properly connected before powering on the device.
 6. Ensure the product has enough space for heat dissipation.
 7. Ensure the luminaries are never covered by any heat insulation mat or slim layer material at anytime.
 8. Suitable for damp locations.
 9. Ambient Temperature: -20°C to + 45°C, Avoid direct sunlight.
 10. Storage Conditions: Cool & dry conditions.

Installation Procedure

WARNING:

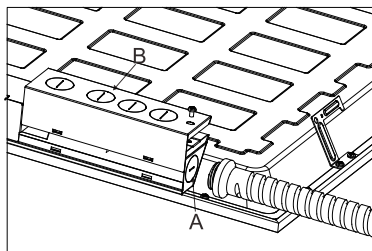
1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.



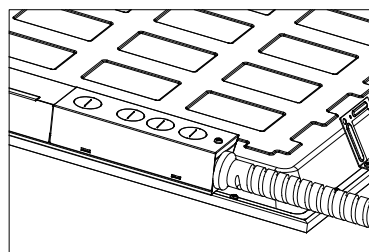
Turn Off
Power Supply

CAUTION:

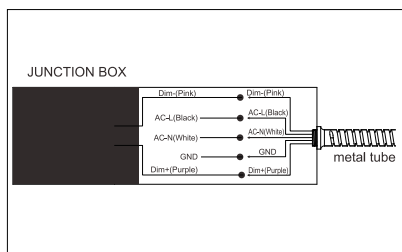
Make sure that the mounting surface or structural member used for installation can support the weight of LED Panel.



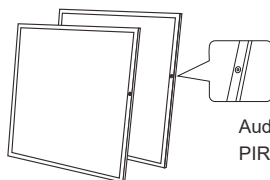
- (1) Remove the knock-down hole on box by screwdriver (Part A), Remove screw and take out the driver cover (Part B)



- (3) Cover the driver box and tighten it with a screwdriver, finish connection.

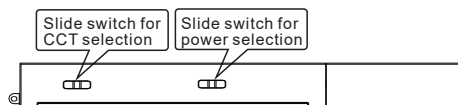


- (2) Connect the wire as the picture showing.



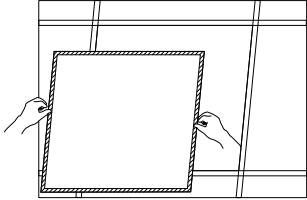
Audio Jack DC Sensor base.
PIR sensor purchased separately.

For the product with Slide Switch of CCT or power selection ,
please select the CCT or power needed before installation.
(Ignore these steps if without the function)



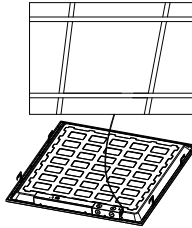
■ Recessed:

1



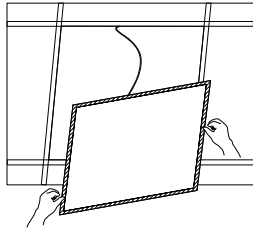
Remove the ceiling plaster slab.

2



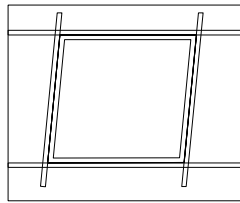
Feed the main AC wire in driver terminal block respectively, connect the panel light and driver.

3



Fix the panel light into plaster ceiling.

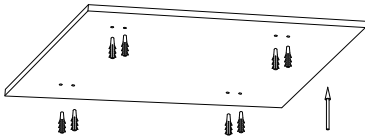
4



Make sure the led panel light is firmly fixed, turn on the power.

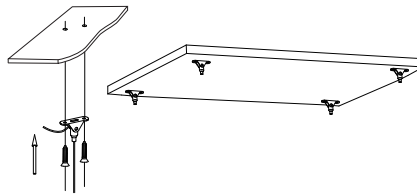
■ Suspended

1



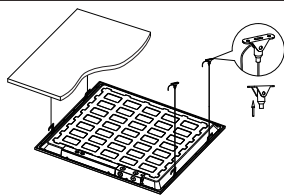
Fix the anchor into target place on the ceiling.

2



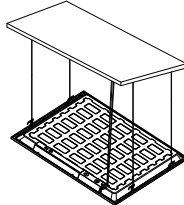
Fix the installation mount on the ceiling with plastic anchor.

3



Hang the panel to ceiling with suspended installation kits, adjust the length of steel wires.

4



Feed the main AC wire in driver terminal block respectively, turn on the power.