ATG
LED LIGHTING

G2E

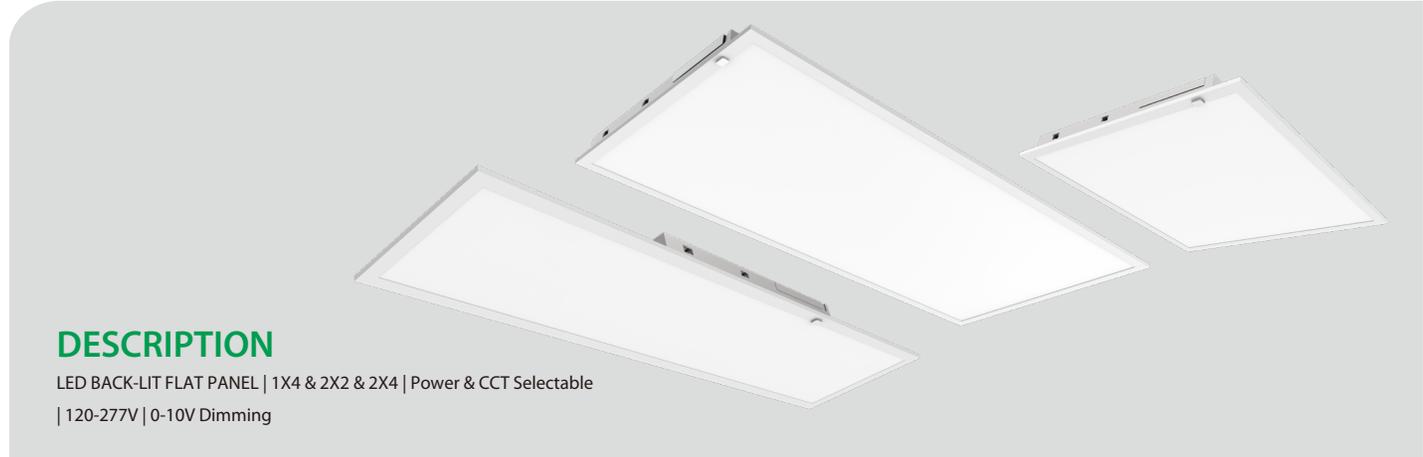
DUO FLAT PANEL GEN 2E
DUO Selectable Flat Panel

DUO FLAT PANEL GEN 2E

DUO Selectable Flat Panel

FPBL-T

FPBL-T
DUO SELECTABLE FLAT PANEL

DESCRIPTION

LED BACK-LIT FLAT PANEL | 1X4 & 2X2 & 2X4 | Power & CCT Selectable
| 120-277V | 0-10V Dimming

PRODUCT FEATURES

- Low profile, low glare, low flicker, classic design
- PMMA lens, PS diffuser
- Ambient operating temperature: -20°C (-4 °F) to 40°C(104°F)
- THD<14%, Power Factor>0.97
- UL 1598 suitable for damp locations, Type IC

* Control and EM options are sold separately, lead time and extra cost may apply
* Surface mount kit and drywall are sold separately

- Emergency backup options available
- Stand Alone Fixture Control(SAFC) options available
- BLE Mesh Control(LLLC) and Circuit Level control(LALC) options available
- Surface mount kit and flange kit available
- Calculated L70>100,000 hours

POWER AND COLOR TEMPERATURE SELECTABILITY

- Feature Color Selectable Technology: Adjust CCT between 3500K / 4000K / 5000K
- Feature Power Selectable Techology: Adjust wattage between 20W / 25W / 30W(1X4), 20W / 25W / 30W(2X2), 30W / 35W / 40W(2X4)

PRODUCT SPECIFICATIONS

Model Number	Input Voltage	CCT	CRI	Performance								
				3500K			4000K			5000K		
				Wattage (W)	Efficacy (LM/W)	Output (LM))	Wattage (W)	Efficacy (LM/W)	Output (LM)	Wattage (W)	Efficacy (LM/W)	Output (LM)
FPBL14-20W-T1-S	120-277V	3500K /4000K /5000K Select	>80	29	125.9	3,625	28	136.8	3830	29	127.3	3,641
				25	128.4	3,209	25	139.5	3488	25	129.9	3,246
				20	130.9	2,618	20	142.3	2845	20	132.4	2,648
FPBL22-20W-T1-E				30	125.6	3,717	28	136.7	3868	29	130.5	3,796
				25	128.1	3,202	25	139.4	3485	25	133.1	3,327
				20	130.6	2,612	20	142.1	2843	20	135.7	2,714
FPBL24-30W-T1-S				42	122.6	5,136	39	130.8	5089	40	124.7	4,974
				35	125.0	4,376	35	133.4	4670	35	127.1	4,450
				30	127.5	3,825	30	136.1	4082	30	129.6	3,889

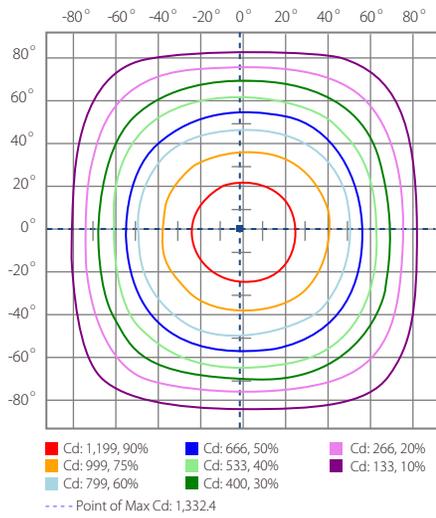* Data for max wattage selections are based on in-house IES files. Other data are extrapolated with factor of 1.02 and 1.04.
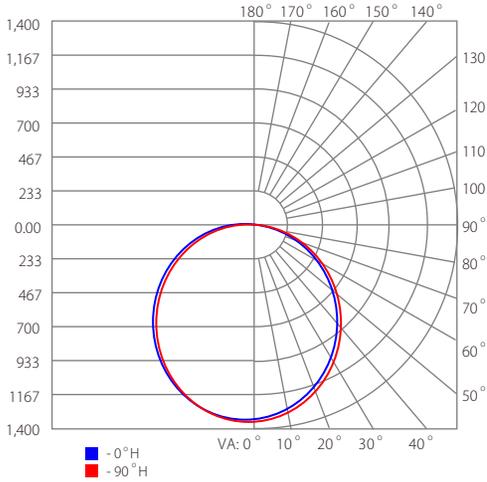
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DUO SELECTABLE FLAT PANEL

PHOTOMETRIC SPECIFICATIONS

FPBL22-20W-T1-RU-E @30W 4000K

ISOCANDELA PLOT

	Cd: 1,199, 90%		Cd: 666, 50%		Cd: 266, 20%
	Cd: 999, 75%		Cd: 533, 40%		Cd: 133, 10%
	Cd: 799, 60%		Cd: 400, 30%		

- - - - Point of Max Cd: 1,332.4

POLA CANDELA DISTRIBUTION

- 0°H
- 90°H

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0-30	1,032.0	26.7%	26.7%
0-40	1,688.6	43.7%	43.7%
0-60	2,978.0	77%	77%
60-90	889.2	23%	23%
0-90	3,867.2	100%	100%

PHYSICAL SPECIFICATIONS

PACKAGING

SIZE	PART NO.	LENGTH (L)	WIDTH (W)	DEPTH (D)
1X4	FPBL14-T1-S	47.8"	11.8"	1.54"
2x2	FPBL22-T1-E	23.8"	23.8"	1.54"
2x4	FPBL24-T1-E	47.8"	23.8"	1.54"

Recorded in inches

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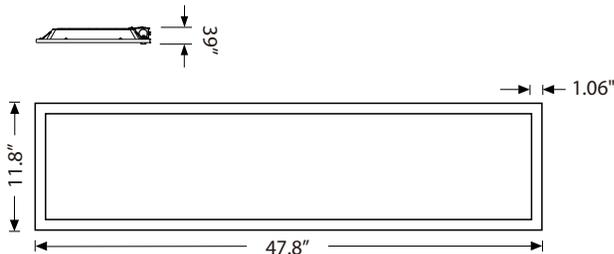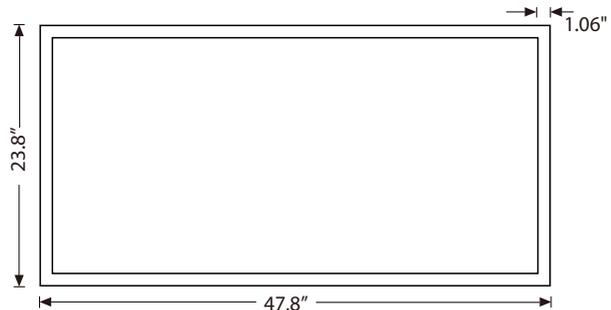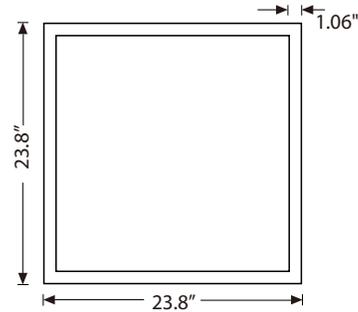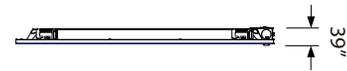
FPBL-T
DUO SELECTABLE FLAT PANEL

## DUO SELECTABLE TECHNOLOGY AND PLUG-AND-PLAY SENSOR

This fixture is equipped with field-adjustable Power Select technology.
1. Ensure power is off to the fixture.
2. Open the driver compartment located on the underside of the fixture.
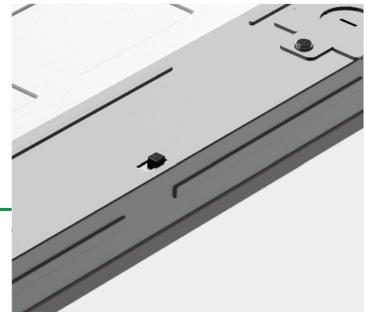3. Adjust switches to desired settings.

PLUG AND PLAY MICROWAVE SENSOR

With pre-installed receptacle, microwave sensor can be added on site to save labor cost.

PLUG & PLAY
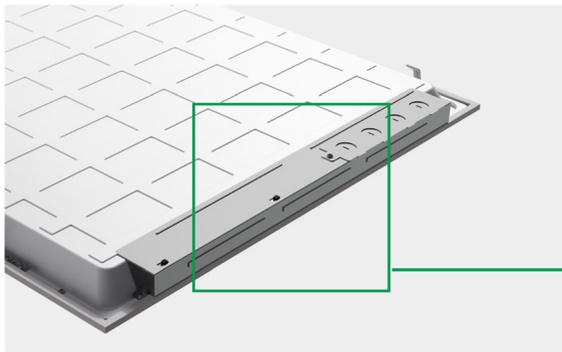
POWER & CCT SELECTABLE

Wattage and CCT can be easily adjusted via the DIP switch on the driver box.

POWER & CCT SELECT

COMPATIBLE WITH BLE MESH CONTROL SYSTEM

WALL SWITCH
Can be surface mounted, mounted in a switch box or even left on a counter or table for manual control of the lights.

AC NETWORK SENSOR
Utilizes motion sensing and daylight harvesting

INTEGRATED SENSOR
Detects movement and automatically turns the fixture on and off

POWER PACK
Independently control each fixture

Control all devices from your Iphone or Android Devices

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WIRING DIAGRAMS

0-10V Dimmer

BLACK — LINE Input — WHITE

DRIVER
120-277Vac Input
12Vdc AUX Output

RED (V+)
BLUE (warm white -)
WHITE (cool white -)
PINK (0-10V-)
PURPLE (0-10V+)
BROWN (12V-)
YELLOW (12V+)

LEDs

0-10V Dimmer
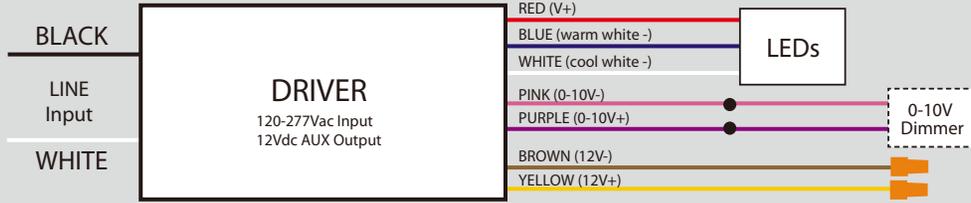
ADDITIONAL ACCESSORIES (SOLD SEPARATELY)

ATG CODE	MODEL NUMBER	DESCRIPTION
SJ	ANT-1P-4T	PIR Occupancy Sensor, 12VDC, with Daylight Havesting Function
CJ	RC-100	Remote for ANT-1P-4T
BSJ	IFS108-AUX	Bluetooth Sensor, PIR Motion & Daylight Harvesting, 12VDC, up to 20ft
C1	WP1013S	3-Key Wall Switch, Input: 120-277VAC
C2	WP1013	3-Key Battery Powered Wall Switch, Input: 3V CR2032
E7	EMH-08170-FY	Emergency Backup, 120-277VAC input, Emergency Output: 8W, with Li-ion Battery
EK	STB45FA-08WLi-170	Emergency Backup,120-277VAC input,Emergency Output: 8W,with Li-ion Battery
SMK22	HAC-CLMB0-0600A0-RS	Surface Mount Kit for 2x2 Panel
SMK24	HAC-CLMB0-0612A0-RS	Surface Mount Kit for 2x4 Panel

ANT-1P-4T   **RC-100**   **STB45FA-08WLi-170**   **WP1013**   **IFS108-AUX**

ORDER FORMAT

Series	Wattage	Function	Control&EM*	Driver Option	BAA
	–	–	–	–	

Series
- **FPBL14=** 1X4
- **FPBL22=** 2X2
- **FPBL24=** 2X4

Wattage
- **20W=** 20W/25W/30W Selectable
- **20W=** 20W/25W/30W Selectable
- **30W=** 30W/35W/40W Selectable

Function
- **T1=** DUO Selectable
- **CCT Range:** 3500K/4000K/5000K

Control&EM*
- **RU=** Receptacle pre-installed for sensor
- **EK=** STB45FA-08WLi-170
- **E7=** EM Unit, EMH-08170-FY
- **LLLC** **

Driver Option
- **S=** Slim J-Box
- **E=** Enlarge J-Box

BAA
- **S=** BAA Compliant

* ANT-1P-4T is the recommended sensor for inventory, please talk to our sales team about inventory information.

** Please talk to our sales team about lead time and pricing for LLLC system.

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✔	Part Number	Description	QUICK SHIPPING*
	FPBL14-20W-T1-S	G2S DUO LED Back Lit Panel, 1x4, CCT& Power Switchable, 3500K/4000K/5000K, 20W/25W/30W, 100-277VAC, with Slim J-Box & 12VDC AUX	✔
	FPBL22-20W-T1-E	G2E DUO LED Back Lit Panel, 2x2, CCT& Power Switchable, 3500K/4000K/5000K, 20W/25W/30W, 120-277VAC, , with Slim J-Box & 12VDC AUX	✔
	FPBL22-20W-T1-RU-E	G2E DUO LED Back Lit Panel, 2x2, CCT& Power Switchable, 3500K/4000K/5000K, 20W/25W/30W, 120-277VAC, , with Slim J-Box & 12VDC AUX & Receptacle	✔
	FPBL24-30W-T1-E	G2E DUO LED Back Lit Panel, 2x4, CCT& Power Switchable, 3500K/4000K/5000K, 30W/35W/40W, 120-277VAC, , with Slim J-Box & 12VDC AUX	✔
	FPBL24-30W-T1-RU-E	G2E DUO LED Back Lit Panel, 2x4, CCT& Power Switchable, 3500K/4000K/5000K, 30W/35W/40W, 120-277VAC, , with Slim J-Box & 12VDC AUX & Receptacle	✔
	ANT-1P-4T	Bi-Level PIR Sensor, 12~24VDC	✔
	RC-100	Remote for ANT-1P-4T	✔
	IFS108-AUX	Bluetooth Sensor, PIR Motion & Daylight Harvesting, 12VDC, up to 20ft	✔
	WP1013S	3-Key Wall Switch, Input: 120-277VAC	
	WP1013	3-Key Battery Powered Wall Switch, Input: 3V CR2032	
	HAC-CLMB0-0600A0-RS	Surface Mounting Kit for 2X2 Solo Troffer/Back Lit Panel, US Version, Slide in Version	
	HAC-CLMB0-0612A0-RS	Surface Mounting Kit for 2X4 Solo Troffer/Back Lit Panel, US Version, Slide in Version	✔
	STB45FA-08WLi-170	Emergency Kit, Input: 120-277VAC, Emergency Output: 8W, 150-170VDC, Emergency Time: 90 mins, Li-ion Battery	✔
	EMH-08170-FY	Emergency Kit, Input: 120-277VAC, Emergency Output: 8W, 170VDC, Emergency Time: 90 mins, Li-ion Battery	✔

* QUICK SHIPPING means this is a inventory product, please contact our sales for realtime stock information.

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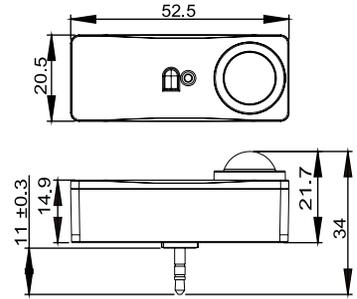10588 Monte Vista Avenue
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FPBL-T
DUO SELECTABLE FLAT PANEL

ANT-1P-4T(sensor)

ANT-1P-4T(connecting base)

RC-100

52.5

20.5

11 ±0.3   14.9   21.7   34

INTRODUCTION

The ANT-1P-4T is passive infrared occupancy bi-level sensoras a fixture sensor mounts in indoor light fixture and provides daylight harvest control. It works by 12-24Vdc power, and controls 0-10VDC LED drivers or dimming ballasts All controls parameters (Hold time, task light level, stand-bylevel, stand-by time) are adjustable via dip switch and task light level also works by remote control.

SPECIFICATIONS

Power supply	12-24VDC, >50mA
Dim control output	0-10V, max. 25mA sinking current
Mounting height	4m Max.
Cable length	100cm
Detection angle	120°
Operating temperature	-20℃~70℃
IP rating	IP20

⚠️ WARNING

NOTE: Warm up time is 40 seconds. After the sensor connects input power first time the liaht will keep on 40 seconds then go to dimming to work normally.
NOTE: Factory Default Setting: Task light level: 100%, Occupied timeout: 5min, Timeout light level: 20%
        Prolonged: 30 minitues.
NOTE: Any setting changed by remote control the led light that sensor connect will on/off as confirm.

FUNCTION AND OPTIONS

The PIR Occupancy bi-level sensor to achieve daylight harvesting control for same areas that require a light change notice before switch off.
If offers 3 levels of the liaht Control: Task Level (100%. 90%. 80%. 70%)-- Stand-byliaht leve (50%, 20%)-off; and 2 periods of selectable waiting time: motion hold-time and stand-by time. Daylight harvest control works inhold-time.

The light will always switch ON automatically on detecting presence OR manually with power switch(even without detecting presence).
When Day Light Harvesting is enabledthe light output regulates between Task and Stand Bylevels according to the level of natural light available.

The light turns on at full or dimsto maintain the luxlevel. The light output regulates according to the level of natural light available.

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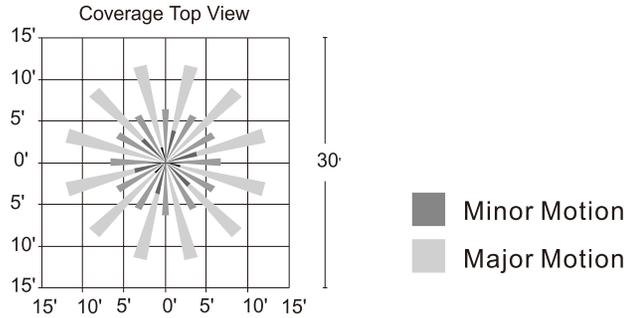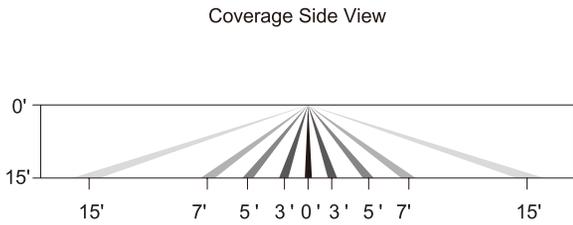
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The light dims to "stand-by level" after hold time.

The light switches off completely after the stand-by period.

COVERAGE PATTERNS

Coverage Side View

Coverage Top View

30'

Minor Motion

Major Motion

DAYLIGHT HARVESTING FUNCTION SETTING BY REMOTE CONTROL RC-100.

LED INDICATORS

LED	DESCRIPTION	LED	DESCRIPTION
BRIGHTNESS	To Set the output level (in %) of connected lighting during occupancy.	(eye icon)	To select the current surrounding lux value as the daylight threshold. This feature enables the fixture to function well in any real application circumstances.
SENSITIVITY	To set the occupancy sensing sensitivity of the Sensor.	(sun icon)	The built-in daylight sensor stops working, and all motion detected could turn on the lighting fixture, no matter how bright the natural light is.
HOLD TIME	The time that the Sensor will turn off (if you choose stand-by level is0) or dim the light to a low level after the area is vacated.	STAND-BY DIM	To set the output level (in %) of connected lighting during vacancy. The sensor will regulate the lighting output at the set level.Setting the STAND BY DIM at 0 means light full off during vacancy.
DAYLIGHT SENSOR	To represents various thresholds of natural light level for the Sensor.	STAND-BY TIME	To represents the time that the Sensor will keep the light at low dim level after the HOLD TIME elapsed.

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BUTTON OPERATION

BUTTON	DESCRIPTION	BUTTON	DESCRIPTION
ON/OFF	Press the "ON/OFF" button, the light goes to permanent on or permanent off mode, and the sensor is disabled. (MUST press "Auto" button to quit this mode for Setting.	AUTO	Press "Auto" button , the sensor starts to function and all settings remain the same as the latest status before the light is switched on/off.
DISP	Display the current/lastest setting parameters in LED indicators (the LED indicators will on for showing the setting parameters).	TEST 2s	The button "TEST" is for testing purpose sensitivity only. After you choose sensitivity thresholds, then you press "TEST" button, The sensor goes to test mode (hold time is only 2s) automatically, meanwhile the stand-by period and daylight sensor are disabled. Press "AUTO" button to quit from this mode.
RESET	Press "RESET" button, all settings go back to settings of dip Switch in sensor.		
▲ ▼	Enter in the setting condition, and Navigate to UP and Down for choose selected parameters in LED indicators.	⎍	Press this button for open or close the smart photocell sensor which take place of normal photocell sensor switch. When remote control enters in setting conduction, you can choose open and close the smart photocell sensor. If this smart photocell sensor open, 2 Leds indicators of daylight sensor are on for choose photocell sensor setpoint on/off to light, and Stand by time is only ⬮ . When the natural light level exceeds setpoint off to light, the lights will turn off even if when the space is occupied. Once the natural light level exceeds this setpoint off to light, the sensor will wait and monitor for 1 minute in order to confirm the natural light level increase is not temporary before forcing the lights to go off. When the natural light level lower than setpoint on to light, the lights will turn on even when the space is not occupied. When natural light level goes lower than this setpoint on to light, the sensor will wait and monitor for 1 minute in order to confirm the natural light level decrease is not temporary before forcing the lights go on.
◀ ▶	Navigate to LEFT and RIGHT for choose selected parameters in LED indicators.		
OK	Keep records of selected parameters in remote control or in Mode 1 or mode 2 mode 3, mode 4.		
SEND	Upload the selected parameters to sensors.		
MODE1 MODE2 MODE3 MODE4	4 Scene modes with preset parameters which are available to be changed and saved in modes.		

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