BLUZAP
a techoLED company

BLUZAP 2x2 SERIES - ARCHITECTURAL UVC/LED TROFFER

Project:	Type:
Date:	Comments:

BLUZAP - Germicidal UVC / LED combination Architectural 2x2 Troffer

Wattage - LED - 25W
LED Light Source - Samsung LED Chips - 2700-6000K, 82CRI (90 Optional) Tunable White Optional
UV-C Light Source - 1.8' Quartz, 48W hot cathode UV-C tube
Irradiance - 253.7nm wavelength, UVC output of 200uw/cm²
Voltage - 110-277V
Construction - Cold rolled steel, PC diffuser, latch free center louvre
Installation - Recessed in grid ceiling, pendant
Control - Bluetooth Mesh, controllable by iOS & Android app, integrated with motion sensor
Compliance - cETLus for UL1598 CSA C22.2#250.0:2008; FCC Compliant with Part 15 Class A; EPA
Patent pending

Architectural linear fixture with combination of LED light source for general illumination and UV-C for disinfection. It emits UV-C light proven to kill microorganisms, including bacteria, protozoans and fungi, also deactivates viruses, including SARS-CoV-1.

This UV-C light, to be used overnight or at times when no one is on premises, effectively disinfects the entire area treated, including surfaces and air, leaving no chemicals or residue, unlike traditional disinfection techniques.

The fixtures are linkable for continuous linear runs, direct or direct/indirect LED general illumination and pendant, surface mount or recessed installation.

Controlled by integrated Bluetooth Mesh technology, controllable by iOS and Android applications with full functionality to control the LED and UV-C parts separately, integration with motion sensors that shut

ETL LISTED US pending

COMMERCIAL | RETAIL | EDUCATION | INDUSTRIAL | MEDICAL

Model #	Wattage	LED lumen output	UV-C Wattage	Fixture Dimensions
BLUZAP-2X2-25-30-U-W-TG	25W	2750lm	48W	23.81" x 23.81" x 5.51"

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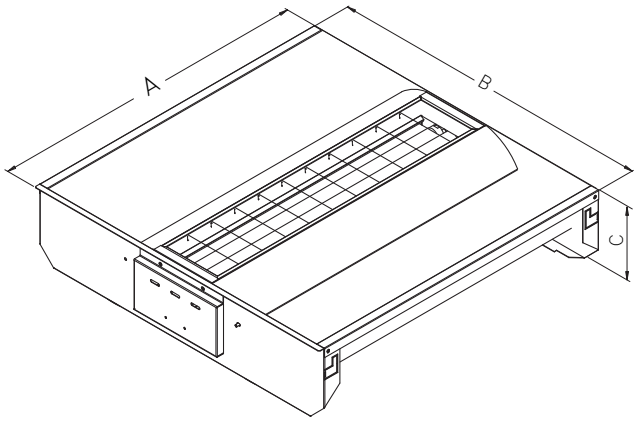
ORDERING GUIDE

1-FIXTURE ID	2-WATTAGE (LED)	3-COLOR TEMPERATURE	4-VOLTAGE
2x2 - 2x2 Series	25W	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K D - Dynamic/Tunable White	U - Universal 110-277V

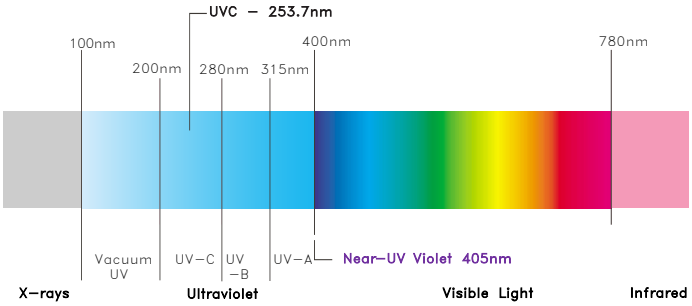
5-FINISH	6-MOUNTING	7-OPTIONS
S - Silver W - White B - Black C - Custom (RAL#)	TG - Recessed in T Grid Ceiling P - Pendant	M - Motion Sensor (standard) S - Smart Wireless Control (standard)

TECHNICAL DRAWING



A – 23.81”
B – 23.81”
H – 5.51”

UNDERSTANDING UV



- UV-C - germicidal ultraviolet light - is a proven technology to effectively disinfect air and surface
- 253.7nm refers to the most effective wavelength frequency of the ultraviolet light
- UV-C can cause health hazard to the skin and eyes if improperly installed and used

Please refer to our website for more detailed information and links to independent research here “link”

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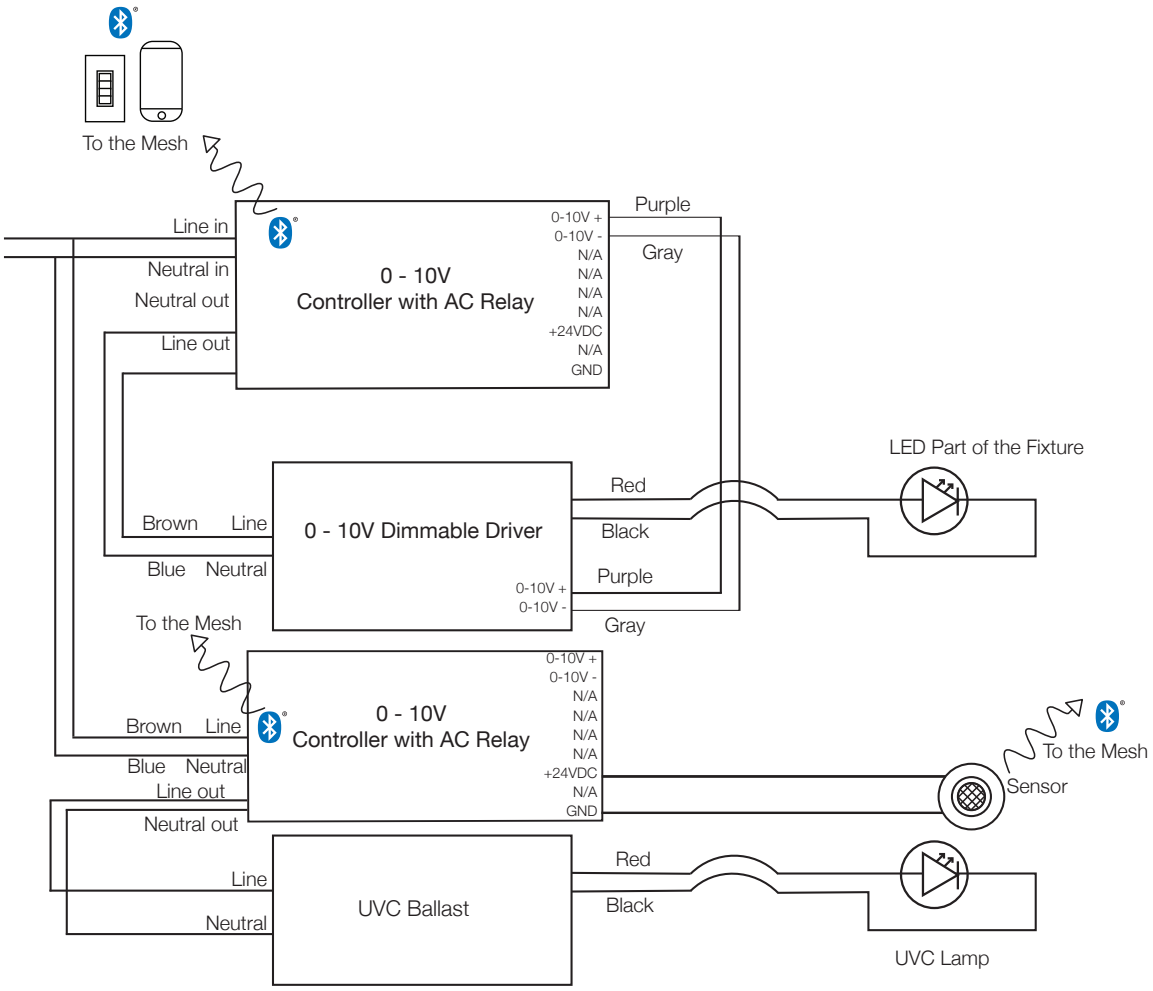
CONTROLS

BLUZAP UV-C / LED combination devices are equipped with integrated components and connected to Bluetooth Mesh network and fully controlled by iOS or Android application provided by BubblyNet® and locally supported. Each fixture is equipped with motion sensor that will shut the UV-C lamp off when anyone enters the area. The fixture can be programmed for different modes and functions of standard LED and UV-C illumination. Timers can be set, for example for UV-C lamp can be programmed to come on from 12:00 – 4:30am, LED illumination can be programmed for night light function and more.

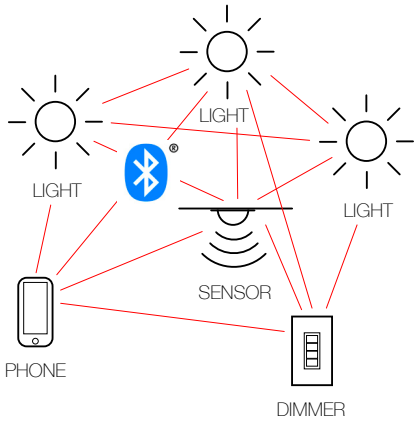
WIRING DIAGRAM



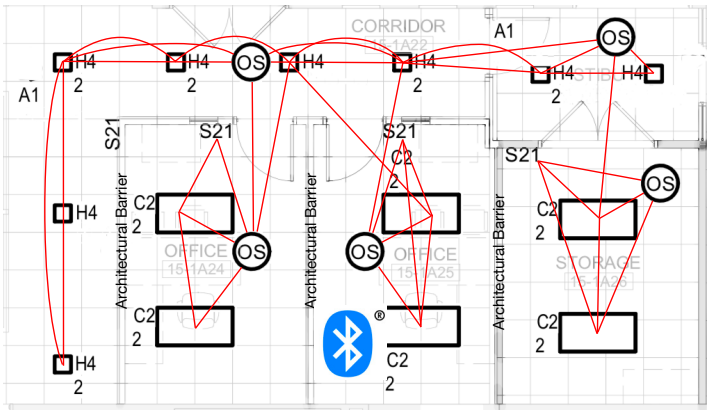
Project:	Type:
Date:	Comments:

CONTROLS - CONTINUED

UNDERSTANDING BLUETOOTH MESH



A SYSTEM WITH NO SINGLE POINT OF FAILURE
A BubblyNet installation does not have a single device from which all others depend for proper functioning. A BubblyNet installation is based on distributed intelligence rather than a system with centralized intelligence into one single device, which may fail.



A SOLUTION TO RF BARRIERS
A Hub has a limited Radio Frequency coverage that reduces in the presence of architectural barriers, such as concrete walls and metal structures. In this case, multiple hubs need to be wired together.
With a MESH architecture, the control signal is broadcasted and hops from device to device, “going around” architectural barriers. It is also called a “Self-Healing Network.” If one device fails, the signal automatically re-routes bypassing the failed element.