3D THERMAL ELECTRICAL POWERED BEACON.TM



Pictured Right – 3D development unit. Pictured Left – Production rendition with fitted weather cover

Originally developed in 1995, Cejay Engineering's 3D Beacon is primarily used for thermal marking of vehicles where NVG applications are not appropriate. Designed as an anti-fratricide and covert position marker for vehicles working air support, the beacon utilizes an electrically controlled rotating thermal source to provide a signature that can be seen with thermal imaging equipped aircraft and ground forces.

The beacons rotating head unit includes a compact thermal source that is used to create an alternating black and near white flashing image when viewed with thermal equipment. This flashing increases the visual performance at the thermal imager and increases the user's visual recognition of the beacon. Providing a recognizable flashing beacon signature dramatically

reduces the probability of misidentification during operations. Additionally with a selective wave band filter can be placed in front of the thermal source to customize the frequency output so that only permitted wave lengths can be emitted.

The beacon is activated / deactivated with a manual switch that controls both the heat source and the head unit rotation. The unit can be powered remotely by a wide range of DC sources from 10 to 32 volts including a 5593 lithium battery. It is recommended that the unit be either vehicle mounted or deployed near vehicle and utilize the VAPS (Vehicle Auxiliary Power Supply) to provide continuous power to the beacon.

The electric thermal beacon has been engineered to provide a significant thermal signature for vehicle mounted or remote marking. The current trial unit is engineered for 360 degree visibility. The unit can be modified to provide a 90-150 degree unidirectional output. Tested to 5,000 meters

Projected Weight

Size

Operation Time

Proven Range

Emission Frequency Observable Image Viewing angle 14 ounces

8x2 Inches or less

6 hours when powered with a 5593 lithium battery / VAPS unlimited

5,500 + meters with commercial thermal viewing equipment (operating range is notably dependent on sophistication of the equipment and operator as well

as environmental conditions)

3k-12k nm. Alternate frequencies are available

Dark and near white alternate flashes. 360 degree horizontal / 0-90 degree vertical

3D Beacon is a trademark of Cejay Engineering, LLC.

ALL INFORMATION INCLUDED IN THIS SPECIFICATION AS WELL AS THE DESIGNED PRODUCT IS SUBJECT TO CHANGE. PLEASE SEE OUR WEB SITE AT WWW.CEJAYENG.COM FOR THE MOST CURRENT INFORMATION ON OUR PRODUCT SUITE. NO COMPONENT OF THIS PRODUCT OR SPECIFICATION IS AVAILABLE FOR DISTRIBUTION TO ANY PARTY WITHOUT THE EXPRESSED WRITTEN CONSENT OF CEJAY ENGINEERING, LLC

ATTENTION: ANY PRODUCTS USING INFRA RED LIGHT EMISSIONS (850 NM OR ABOVE) REQUIRE STATE DEPARTMENT APPROVAL AND A LICENSE TO EXPORT OUTSIDE THE UNITED STATES.



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