

MarkIR™ Infrared Emitters

FRIEND OR FOE IDENTIFICATION

The markIR™ tuned band emitters utilize a two-dimensional photonic crystal structure to tune and restrict the IR emission for visibility in only the desired spectral region. These miniature devices provide high energy infrared signals with minimal power consumption, thus enabling long-range visibility and prolonged battery operation. Each environmentally sealed device contains two elements which may be coupled together or independently driven in pulsed or constant modes.

FEATURES & BENEFITS

- markIR 35 or markIR 812 Band Emitters
Visible with MWIR or LWIR cameras only
- Wavelength Specific
No visible or near IR (Gen III) output
- Bright Emission
Viewable distance up to 600m
- Power Efficient
Up to 45 hours continuous operation (CR123 batteries)
- Lightweight & Small
Mountable with clip, pin or adhesive
- Vacuum Sealed
Submersible to 10 meters
- MEMS Device
May be operated pulsed or constant
- Configurable Output Direction
45° through 360° viewing angle

The markIR units can be operated individually or in combination to produce single or multi-wavelength emitters in the mid- or long-infrared portions of the spectrum. Several units in an array may be used to extend viewing distance or provide multi-directionality.



Wilcox UIFF Device featuring markIR emitters.

The tightly controlled emission spectrum of the markIR is ideal for operations where detection only by specific types of imaging equipment is desired.

APPLICATIONS

- Personnel/Unit Identification
- Cargo/Pallet Markers
- Vehicle IFF
- Landing Zone Markers
- Signaling



NEW THREATS.
NEW THINKING.™

IdentifIR™

HIGH POWER INFRARED ILLUMINATION DEVICES

The IdentifIR™ family of products provides extremely high power infrared illumination for identifying critical assets at long range. Available in a variety of package and power configurations, the system may be operated in either pulsed or constant modes, with patterns generated by computer or preset switches.

FEATURES

Intense Infrared Output in 3-5 μ or 8-12 μ

Viewable at Ranges up to 6 km

Broadband or Waveband Specific

Pulsed or Continuous Operation

Pattern Generation

Various Package & Power Configurations

OPTIONS

Pulsed or Constant Operation

A/C or DC Powered

Static or Dynamic Patterns

Multi- or Uni- Directional

Custom Packaging & Controls



APPLICATIONS

- Signaling
- Target Marking
- Ranging Experiments
- Landing Zone Markers
- Active Countermeasures
- Homeland Security
- Vehicle IFF
- Aircraft IFF
- Marine IFF



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