

Thermal-Radar, Maker of Wide-Area Thermal Intrusion Detection Algorithms, Introduces Hydra™ Security for Houston, Texas

USA Military and Commercial Manufacturer of Advanced Thermal Intrusion Detection (c: 2012), Thermal Radar, Offers Perimeter Security Solution, Best of Industry!



.ThermalRadar. Top Security Camera Solution 84057

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-- Thermal Imaging Radar (TIR) is

pleased to announce the launch of their new, 2021, state-of-the-art, Continuous, Persistent, 360-Degree Security Product Line. TIR offers: (a) Surveillance, (b) Detection and (c) Situational Awareness anywhere in the world with speed and accuracy.



Thermal Imaging Radar (TIR) is a top provider of perimeter security-solutions using a continuous, 360-degree thermal camera solution designed to observe and detect intruders entering denied areas."

David Kay, Chief Executive Officer, TIR

Thermal Imaging Radar (TIR) is a U.S. based manufacturer of award-winning, advanced intrusion detection systems. TIR's products are manufactured in Utah, USA at a certified ISO 9001 facility. Our cutting-edge technology is a first to market product of its kind, featuring continuous and persistent 360 degree thermal detection technology with sophisticated edge analytics.

Thermal Radar™ is an award-winning and patented perimeter security solution that provides continuous 360-degree situational awareness. Thermal Radar™ rotates best-in-class [FLIR Boson™](#) thermal sensors and incorporates custom-written, edge-based analytic

detection algorithms to detect, classify, and geo-spatially locate threats within a perimeter.

TIR Hydra™ combines a Thermal Radar™ with an IR Illuminated Pan-Tilt-Zoom (PTZ) camera; when Thermal Radar™ detects a perimeter threat, it sends an HTTP slew-to-cue command to the PTZ for enhanced intelligence and target confirmation. The use of thermal imagery to detect people and objects is a premise widely accepted in military, industrial and commercial

applications, given all objects emit some level of infrared energy.

Most thermal camera perimeter security solutions are typically deployed on the edge of a perimeter and are limited to fixed and narrow fields of view. Built on a premise of doing more with less, Thermal Radar™ protects from the “inside out” with a continuously rotating thermal sensors covering an area up to 200 acres.

Unlike an active radar system that emits Radio Frequency (RF) waves, Thermal Radar™ is a passive thermal intrusion detection system. Thermal Radar is available in 5 models depending upon the customer needs and detection distances required. Thermal Radar™ scans a 360-degree area and can detect human beings within a 200-acre area, vehicles within an 1800-acre area and wildfires within a 20,000-acre area in optimal environmental conditions and with a clear line of sight.

Thermal Radar™ snaps and analyzes 480 thermal images per minute from up to 16 camera positions as the thermal sensor is rotated at 30 to 60 RPM. Thermal Radar™ images aggregated, analyzed, and compiled into an ONVIF Compliant RTSP video stream which can be easily consumed by a video management platform. The Thermal Radar RTSP stream displays the full 360-degree coverage area, while also showing a detection alarm window as well as an integrated Geo-Spatial map of the coverage area. The TIR Hydra™ combines a PTZ with the Thermal Radar™ and provides customers with both thermal and optical video feeds that are viewed and recorded within a customer specified VMS.

Thermal Radar™ provides an intuitive, patent-pending graphical user interface (GUI) which affords users a myriad of options to customize for each deployment environment. Although Thermal Radar™ continuously scans a 360-degree field of view, the GUI allows users to define and customize unlimited areas of interest (AOIs) enabling users can restrict detections and alerts to those regions deemed necessary. The Thermal Radar™ GUI



801-762-6800 TIR #1 Custom Threat Detection System



Thermal-Radar Custom Laser-Illuminated Detection

also provides additional tools and rules that minimize or eliminate false alarms.

For environments where electrical power and direct network connections are unavailable, TIR's solar powered Mobile Sentry™ Trailer provides a rugged platform on which the Thermal Radar™ or TIR Hydra™ can be deployed. Mobile Sentry™ requires only 15 minutes to deploy and utilizes 5G or Wi-Fi to back-haul detection alarms and critical surveillance intelligence.

Thermal Imaging Radar (TIR) Feature #1: Geo Spatial Alerts. Once properly calibrated, Thermal Radar™ can pinpoint any intrusion detection alert on an integrated Geo-Spatial map of the property and sends those GPS coordinates to the user as part of the event notification or directly to a VMS. This makes Thermal Radar™ the ideal platform for tracking unwelcome visitors in denied areas and can be used in conjunction with other camera systems to provide "slew to cue" surveillance.

Thermal Imaging Radar (TIR) Feature #2: Radar View. The unique radar display within the Thermal Radar™ RTSP stream presents the intruders' GPS location on the integrated Google Earth map.

Thermal Imaging Radar (TIR) Feature #3: Customizable User Interface. Thermal Radar™ users can customize the GUI to meet their exact needs by configuring specific Areas of Interest (AOIs) and Areas of Exclusion to meet the needs of their unique environment. The Thermal Radar™ RTSP stream is ONVIF compliant and integrates easily into your choice of Video Management Systems.

Thermal Imaging Radar (TIR) BANSHEE™. The TIR BANSHEE™ is an integrated active detection and denial solution from Thermal Imaging Radar. The TIR BANSHEE utilizes Thermal Radar™ detections which are then dispatched to a secondary bi-spectral camera with a 100mm thermal sensor as well as a



'Best of Industry' Continuous Persistent 360-Degree



Infrared Surveillance
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25-225mm zoom Day/Night camera so that detected targets can be identified and classified for further action.

Thermal Imaging Radar (TIR) BANSHEE™. When the BANSHEE detects a target using the Thermal Radar™ component and the target is confirmed by the bi-spectral secondary thermal and visual camera system, the target can receive any mix of audible or visual deterrent warnings with Banshees' onboard systems. The platform allows an operator to escalate to the use of non-lethal force with any of the installed devices with a touch of a button. A 300X Acoustic Hailer: Beam width +/- 15°; Maximum output of 143 dB. Spotlight: 12,000,000 Candlepower with adjustable beam width of 1° to 40°. Class III-a Lasers: 530nm (green) and 680nm (red). These are considered 'eye-safe'.

The Thermal Radar Hydra™ combines the unparalleled 360° detection of Thermal Radar™ with targeted surveillance from a visual IR illuminated PTZ. When Thermal Radar™ detects a target; the PTZ automatically slews to the target, providing targeted surveillance and immediate confirmation and forensic evidence of the target detected.

Thermal Radar™ continuously scans the designated user defined areas of interest while sophisticated edge analytics detect a target that enters the user defined areas. Following a thermal detection, Thermal Radar™ uses an HTTP command to slew the PTZ to the target location. This one-of-a-kind functionality provides customers with 24/7 thermal coverage plus the benefit of forensic targeted surveillance from the visual PTZ.

Hydra™ combines the unparalleled; 360° detection of Thermal Radar™ with a visual IR illuminated PTZ. When Thermal Radar™ detects a threat; the PTZ automatically slews to cue, providing immediate confirmation and targeted surveillance.

Thermal Radar continuously scans the designated user defined area while sophisticated edge analytics detect the object that has entered the user defined detection area. Thermal Radar then commands the PTZ with an HTTP post to slew to the proper heading, tilt and zoom so that the visual IR illuminated PTZ can provide the proper forensic data for confirmation of the detection.

Thermal Imaging Radar (TIR) manufacturers Thermal Radar and the TIR Hydra which are the most advanced wide-area intrusion detection and surveillance solutions in the security sector. TIR also manufacturers the Mobile Sentry Trailer, which provides a mobile, solar powered surveillance platform when power and network infrastructure are not available or too costly to implement. The TIR Mobile Sentry Trailer can be easily deployed for remote sites.

- Dimensions: Deployed Height: 30 feet (9.1 m)
- Weight: 4 lbs.
- Can be deployed in 10 minutes
- Solar Panel Options, 600-Watt or 1200 Watt
- (Optional) Wi-Fi, Cellular & Satellite Antennas

The TIR Mobile Sentry Trailer is the most robust surveillance trailer in the security sector. The TIR Mobile Sentry Trailer can be outfitted with a Thermal Radar or a Hydra providing unprecedented wide area intrusion detection and targeted surveillance from a mobile, and rapidly deployed surveillance trailer.

Mobile Sentry Trailers come standard with a heavy-duty rugged frame, 15" Wheels and tires, 3500 lb. rated axles to withstand the most rugged and toughest environment. Our Mobile Sentry Trailers have an average life of 12+ years. Mobile Sentry Trailers have a reliable hydraulic 25ft mast, a simple control system and all the components necessary to operate Thermal Radar detection and surveillance systems. Mobile Sentry Trailers can be deployed within 15 minutes and support remote configuration and setup.

- Hydraulic mast, solar panels and trailer outriggers can be deployed in 15 minutes.
- Solar panels and optional fuel cell power systems allow for silent operation
- Mobile Sentry Trailers support Thermal Radar products as well as other security technology solutions.

Thermal Imaging Radar, SALES

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