Vaidio® AI Vision Platform
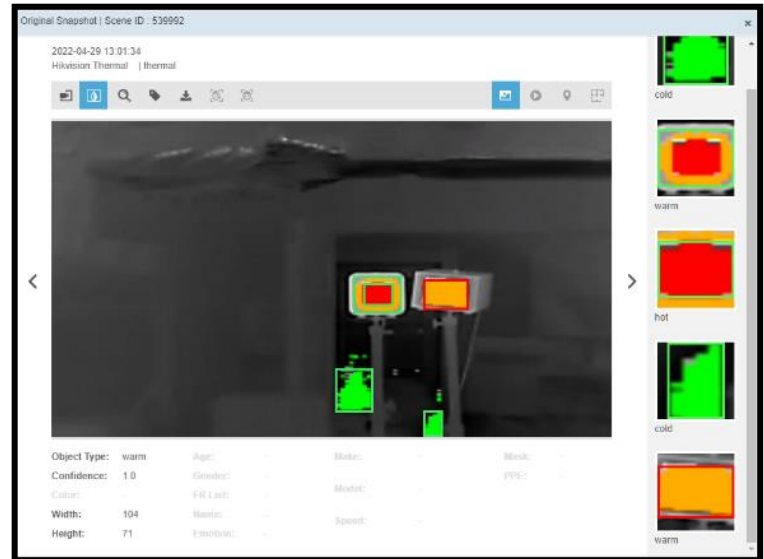## MULTI–REGION THERMAL VIDEO ANALYTICS

VAIDIO®
BY IRONYUN

Accurately monitor multiple thermal regions with a single thermal camera and advanced Vaidio AI

The Challenge

Monitoring equipment – engines, power lines, manufacturing machinery – can be difficult. Many machines lack sensors, gauges or readouts. Manual monitoring can be labor intensive and sporadic. It can be costly to use thermal cameras, or add sensors, to monitor individual pieces of machinery. Costs from overheating, missed maintenance and breakdown can pile up.

The Solution

Vaidio AI combines information from thermal and video cameras to monitor object temperatures. But instead of using multiple cameras, or a camera for each piece of equipment, Vaidio AI can create, monitor, and alert on up to 4 independent regions of interest (ROIs) per thermal camera. In addition to machine temp monitoring, Vaidio multi-region thermal camera analytics can also be used for moisture detection, gas leak detection, HVAC and electrical monitoring, and in agricultural, construction, facility, marine and utility applications.

Features

- ☐ Create multiple ROIs on a single thermal camera
- ☐ Alert when any individual ROI hits any user defined threshold
- ☐ Option to sync with gas, pressure, and humidity sensors
- ☐ Works in low-visibility environments and adverse weather conditions
- ☐ Option to use with additional Vaidio analytics such as Object Left Behind, Object Removal, Intrusion Detection, etc. for holistic situational awareness

Benefits

- ☐ Reduce equipment monitoring costs and improve monitoring accuracy
- ☐ Proactively identify urgent equipment issues as well as trends over time
- ☐ Accelerate response time and reduce incident cost
- ☐ Increase safety by reducing the need for manual monitoring
- ☐ Improve proactive maintenance, increase uptime, prolong equipment life

IronYun's Vaidio™ AI Vision Platform is recognized by IDC as "a good decision for enterprises that have extensive video surveillance capabilities and want to upgrade to advanced analytics that incorporate the latest technology". *IDC MarketScape, Video Surveillance Analytics, Nov 2021*

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The Architecture

VIDEO, THERMAL, SENSOR

VAIDIO

VAIDIO UI
WEB/APP

VMS

"We have worked with IronYun in the year 2020 deploying the IronYun AI video analytics Vaidio software platform at the New Jersey Transit train stations, rail cars and buses. The performance of the IronYun Vaidio software has certainly met our expectations in speed, accuracy, and overall ease-of-use requirements. In addition, IronYun's customer support team offers New Jersey Transit excellent technical and business support services."

– Office of Information & Digital Technology, New Jersey Transit

NVIDIA

"Out of hundreds of solutions we've worked with, Vaidio is one of a handful that ranks highest in terms of platform maturity and driving real-world customer value."

– Jumbi Edulbehram, Global Business Development, AI-City, Nvidia

About Vaidio

The SIA award-winning Vaidio® AI Vision Platform uses evolved artificial intelligence to monitor and analyze real-time and recorded video. Vaidio adds a layer of superhuman intelligence and market leading accuracy to existing camera and video infrastructure. Vaidio works with almost any IP camera, integrates with dozens of VMSs, and scales from 1 to 1,000s of cameras. The Vaidio platform supports dozens of a la carte AI video analytics including video search, intrusion detection, license plate recognition, face search and recognition, people and vehicle counting, object left behind and object removal, weapon, smoke, fire and PPE detection, multi-region thermal camera analytics, and more.

About IronYun

IronYun is recognized as a Major Player in Video Surveillance Analytics (IDC #US47659521, November 2021). IronYun is a US company that uses NDAA hardware and works with the US DoD under a 2019 CTTSO grant. We partner with customers around the globe in nearly every industry looking to improve security, safety, health and operational efficiency. Our mission is to evolve AI for a safer, smarter world.