



FIELD JOURNAL

SEPTEMBER 2026

POSITIONING, SENSING, AND COMMAND AT THE TACTICAL EDGE ARE NO LONGER SEPARATE CONVERSATIONS.

THIS ISSUE LOOKS AT HOW UNMANNED SYSTEMS, CONTESTED NAVIGATION, AND TRANSPARENT BATTLEFIELDS ARE RESHAPING LAND, AIR, AND SEA OPERATIONS. FROM DISMOUNTED SOLDIERS TO SURFACE WARSHIPS, THE COMMON THREAD IS TRUSTED DATA UNDER PRESSURE.

CIRCUITBULL® · VOLLS GLOBAL INC

Circuitbull field photograph

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CIRCUITBULL® • VOLLS GLOBAL INC

Circuitbull® is the mission-systems mark of Volls Global Inc, Wilmington, Delaware. The company fields long-range sensing, command links, and site security for borders, ports, energy, and critical infrastructure.

Thermal and EO/IR cameras in the catalog are sourced sensors. Circuitbull's own IoT, SCADA, and carbon-monitoring systems are Made in USA.

This magazine is an original briefing. Defence-press headlines are shown with the date, the source name, and a link to the original article. We do not reprint or rewrite the publisher's text.

FROM THE FOUNDER: DESIGN FOR CONTESTED, CONNECTED OPERATIONS

The defence conversations of recent weeks share one pressure point: operators must act on trustworthy information while everything around them is contested. PNT jamming, drone saturation, sensor noise, and networked warfare are no longer future scenarios; they are design requirements right now.

At Circuitbull, we build rugged edge infrastructure to keep sensing, control, and telemetry alive where networks are degraded. We do not treat unmanned platforms, counter-UAS, soldier modernisation, or naval adaptation as isolated markets. They are parts of a single problem: moving the right data to the right decision-maker before the environment changes.

Our Made in USA IoT, SCADA, and carbon-monitoring lines reflect the same discipline: hardened interfaces, clean power management, and software-defined connectivity. Cameras and other sensors are sourced from trusted suppliers and integrated as system components, never claimed as domestically manufactured products.

I hope this issue encourages you to see your next programme not as a platform purchase, but as a data architecture that must survive contact. We are here to build that layer with you.

Volkan Yilmaz

CEO / Founder

WHY RESILIENT PNT IS BECOMING A MISSION-CRITICAL LAYER

GPS denial is no longer a theoretical concern on modern battlefields. Jamming and spoofing campaigns have moved from tactical nuisance to operational threat, forcing militaries to treat positioning, navigation and timing as a contested domain rather than a utility. Alternative PNT architectures now blend inertial measurement units, celestial fixes, magnetic mapping and opportunistic signals of opportunity to maintain fix accuracy when satellite constellations are degraded.

The shift is reshaping procurement priorities across ground, air and maritime platforms. Defence planners are asking not whether PNT will be challenged, but how quickly degraded modes can be detected and recovered. Resilient PNT is therefore becoming a cross-cutting requirement for autonomous systems, networked fires and precision manoeuvre.

DEFENCE IQ · 2026-09-21

NAVIGATION UNDER PRESSURE: RESILIENT PNT'S ROLE IN MODERN DEFENCE

[READ THE ORIGINAL](#)

COMMERCIAL DRONE TECH IS REDEFINING TACTICAL ISR

Small commercial unmanned aircraft are now treated as disposable sensors rather than aviation curiosities. Units at the tactical edge are adapting off-the-shelf quadcopters and fixed-wing platforms for route reconnaissance, target confirmation and battle damage assessment, compressing the sensor-to-shooter timeline from hours to minutes. The low cost and high availability of these systems allow commanders to accept attrition that would be unthinkable with traditional manned or military-grade assets.

This democratisation of airborne ISR brings integration headaches. Commercial datalinks, proprietary ground stations and non-standard video formats must be fused with secure command networks without creating cyber vulnerabilities. The real challenge is no longer acquiring the capability; it is governing it.

DEFENCE IQ · 2026-09-18

THE GROWING ROLE OF COMMERCIAL DRONE TECHNOLOGY IN DEFENCE INTELLIGENCE AND ISR

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COUNTER-DRONE SYSTEMS MUST SCALE FOR HIGH- INTENSITY WAR

The counter-UAS mission has outgrown airport perimeters and VIP protection. In high-intensity conflict, formations face swarms of reconnaissance, strike and loitering munitions operating at altitudes and speeds that strain legacy air-defence radars and rules of engagement. Effective defence now demands layered detection, identification and defeat chains that can distinguish hostile drones from friendly and civilian traffic under electromagnetic pressure.

Integration is the bottleneck. Hard-kill interceptors, electronic warfare, directed energy and cyber defeat each cover different threat classes, but none alone solves the swarm problem. Commanders need a common operating picture that assigns the cheapest effective effector to each target in seconds.

DEFENCE IQ · 2026-09-02

COUNTER-DRONE DEFENCE IN HIGH INTENSITY CONFLICT

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THE TRANSPARENT BATTLEFIELD IS FORCING SOLDIER TECH TO EVOLVE

Sensors on drones, vehicles, satellites and unattended ground nodes are producing more battlefield data than ever before. For dismounted soldiers, the challenge is no longer finding the enemy but filtering noise into actionable understanding without cognitive overload. Modernisation programmes are therefore focusing on wearable computing, augmented displays and predictive algorithms that present only what a soldier needs to know at the moment of decision.

The transparent battlefield also exposes the individual. Every emission, signature and digital trace can be harvested by adversaries, so survivability now depends on low-probability-of-intercept communications, signature management and disciplined emissions control. The next generation of soldier systems must connect troops to the network while helping them disappear within it.

DEFENCE IQ · 2026-09-01

HOW THE TRANSPARENT BATTLEFIELD IS TRANSFORMING DISMOUNTED SOLDIER MODERNISATION

[READ THE ORIGINAL](#)

MARITIME ISR IS RESHAPING HOW NAVIES FIGHT AT SEA

Naval operations increasingly depend on persistent surveillance that extends well beyond a ship's organic sensors. Maritime ISR networks now tie together crewed patrol aircraft, unmanned surface vessels, underwater gliders and satellite constellations to track adversary fleets, monitor chokepoints and cue long-range weapons. The result is a more distributed form of sea control in which detection and targeting can be separated from the platform that delivers the effect.

This transformation places new demands on data architecture and human-machine teaming. Raw feeds from dozens of sensors must be correlated, classified and shared across allied forces in near real time. Navies that master the fusion layer will gain the initiative; those that treat ISR as a collection problem rather than an integration problem will struggle to keep pace.

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IS MARITIME ISR TRANSFORMING NAVAL WARFARE?

[READ THE ORIGINAL](#)

Counter-Drone Defence in High-Intensity Conflict

What Germany's response to the new drone threat means for integrated air and missile defence

AIR DEFENCE • AUTONOMOUS & UNCREWED

Def **URBAN SECURITY AND ANTI-UAV**

Dense urban environments challenge traditional air defence because low, slow, small unmanned aircraft can hide among buildings, clutter, and radio-frequency noise. Operators need persistent situational awareness that fuses multiple sensor streams rather than relying on a single radar or camera.

The shift from permissive counter-UAS operations to high-intensity contested airspace demands faster decision loops, automated cueing, and strict rules of engagement that protect friendly aircraft and civilians while engaging hostile drones.

DEFENCE IQ • 2026-09-02

COUNTER-DRONE DEFENCE IN HIGH INTENSITY CONFLICT

[READ THE ORIGINAL](#)



AIR DEFENCE • AUTONOMOUS & UNCREWED • CONTINUED

URBAN SECURITY AND ANTI-UAV

A modular counter-UAV architecture layers passive RF discovery, radar, and sourced electro-optical cueing through an open command-and-control application, giving defenders a common operating picture and the ability to select the lowest-collateral effector.

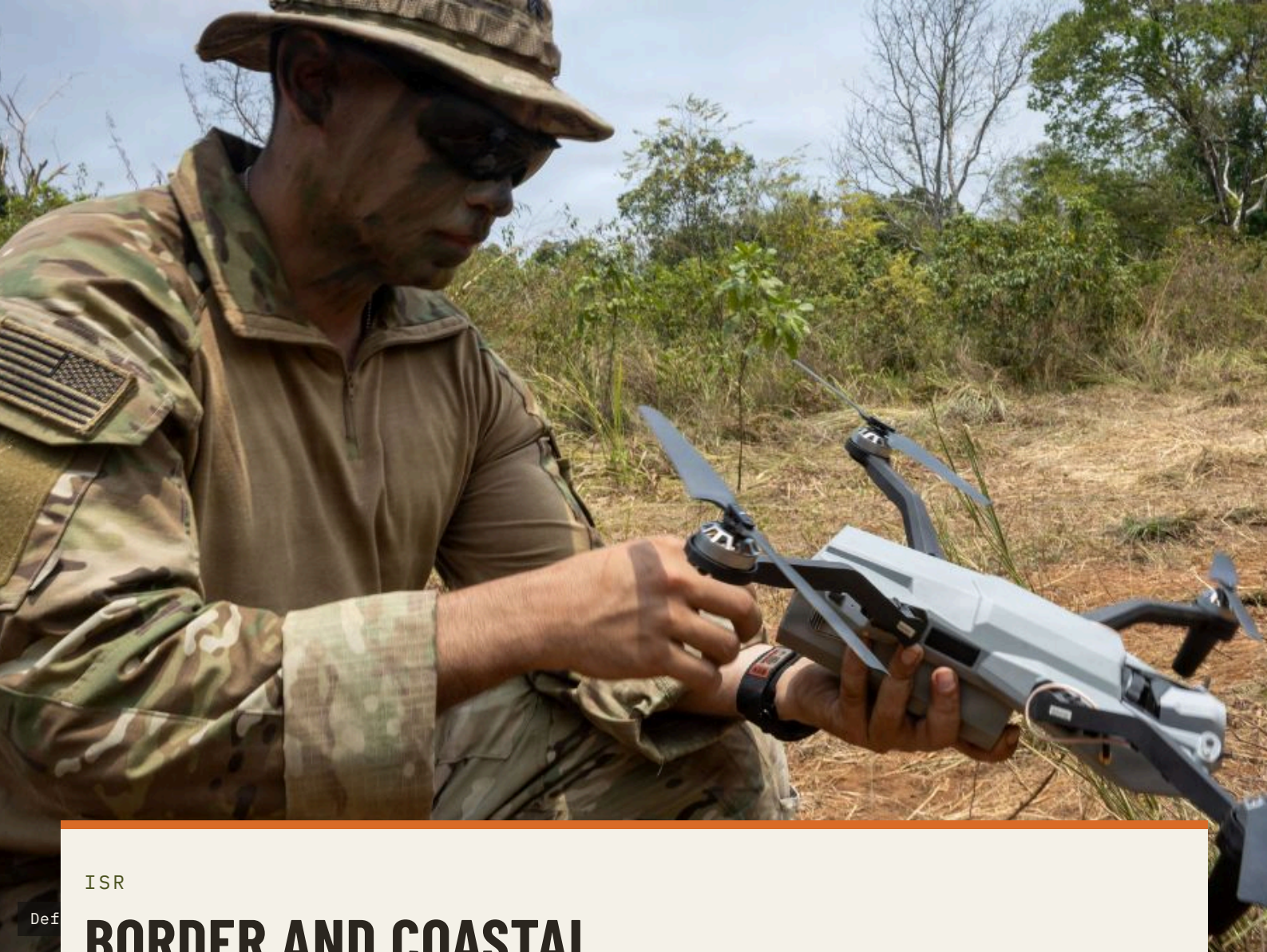
Kinetic interceptors, electronic defeat, and navigation or cyber spoofing can be combined under operator confirmation, while the system logs every engagement for after-action review and continuous algorithmic improvement.



WATCH THIS SOLUTION

Anti-drone radar

www.youtube.com/watch?v=tQRt4ekE5W0



ISR

Def

BORDER AND COASTAL DEFENSE

Sovereign borders and coastlines stretch across terrain that resists easy observation. Patrol routes, watchtowers, and manned sorties still matter, yet they leave intervals of darkness that smugglers, unauthorized crossings, and environmental intrusions exploit.

Commercial unmanned systems have moved from hobby airframes to field-proven intelligence platforms. When paired with sourced sensor payloads and secure data links, they offer a practical layer of overwatch that complements existing ground and maritime operations.

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THE GROWING ROLE OF COMMERCIAL DRONE TECHNOLOGY IN DEFENCE INTELLIGENCE AND ISR

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ISR • CONTINUED

BORDER AND COASTAL DEFENSE

Circuitbull field deployments integrate airframes, ground control stations, and edge-processing radios into a single command workflow. Operators receive live telemetry and imagery without relying on foreign cloud infrastructure, while SCADA and IoT gateways feed status data from remote sites back to a central operations floor.

The architecture scales from a single launch site to networked sectors, with Made in USA command software and communications cores. Teams gain persistent situational awareness, faster response to border events, and a common operating picture that unifies aerial, ground, and coastal sensors.



WATCH THIS SOLUTION

Long-range EO/IR surveillance system

www.youtube.com/watch?v=6-jNngK-p7Y

FROM THE CATALOG



CB-000026

VEHICLE MOUNTED LASER CAMERA

A vehicle-mounted laser camera designed for mobile imaging and target acquisition in industrial, security, or automotive



CB-000040

AGT-TC12618C WATERPROOF PTZ THERMAL IMAGING CAMERA FOR AQUACULTURE

The AGT-TC12618C is an ultra-long-range continuous zoom thermal imaging camera with 1280×1024 resolution, IP66 waterproof



CB-000020

AGT-Z50II-TVC6516-2186 THERMAL IMAGING PTZ CAMERA FOR BORDER SURVEILLANCE

Dual-sensor thermal/visible PTZ camera with 31~155mm thermal zoom, 11~800mm visible zoom, 360° pan, ±90° tilt, and up to



CB-000018

AGT-DMA6515-2076 HD OUTDOOR THERMAL IMAGING CAMERA FOR VEHICLE MOUNTED

The AGT-DMA6515-2076 is a vehicle-mounted HD outdoor thermal PTZ camera that fuses visible-light and uncooled thermal im

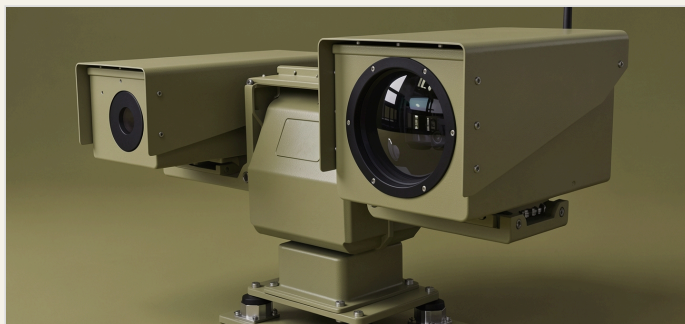
FROM THE CATALOG



CB-000036

AGT-TRC6511-2132 DISTANCE HIGH SPEED THERMAL IMAGING CAMERA FOR AIRPORT

The AGT-TRC6511-2132 is a long-range dual-spectrum PTZ camera with 640×512 VOx thermal imaging, 5× continuous zoom, HD v



CB-000041

LONG RANGE HD VISIBLE AND NIGHT VISION THERMAL CAMERA AGT-HTVC121030-2186-TG

The AGT-HTVC121030-2186-TG is a long-range multi-sensor PTZ camera combining a 2.1MP visible camera with 11–800mm lens a



CB-000042

AIRPORT BIRD DETERRENCE MULTI-SPECTRUM ELECTRO-OPTICAL PLATFORM

The AGT-DMA351-TVC is a heavy-duty multi-spectrum electro-optical platform integrating HD visible and uncooled thermal c



CB-000051

AGT-Z201-LFZ LONG DISTANCE MULTI-SENSOR THERMAL CAMERA

The AGT-Z201-LFZ is a long-range multi-sensor thermal camera system integrating HD daylight camera, uncooled thermal ima



ISR

Pex

CITY SAFETY

Modern city safety depends on knowing where assets are, even when the electromagnetic environment refuses to cooperate. Jammed GNSS signals, multipath canyons, and spoofed timing references turn dense urban corridors into navigation puzzles that static maps cannot solve.

Operators need a PNT backbone that keeps personnel, vehicles, and autonomous systems oriented without relying on a single satellite constellation. Resilience here is not redundancy for its own sake; it is the ability to maintain decision-quality data when the spectrum is contested.



ISR • CONTINUED

CITY SAFETY

Circuitbull field deployments blend inertial aiding, terrestrial timing, and trusted sensor fusion to deliver continuous position and timing awareness across built-up areas. The architecture treats every source as a witness, weighting each input by confidence rather than pedigree.

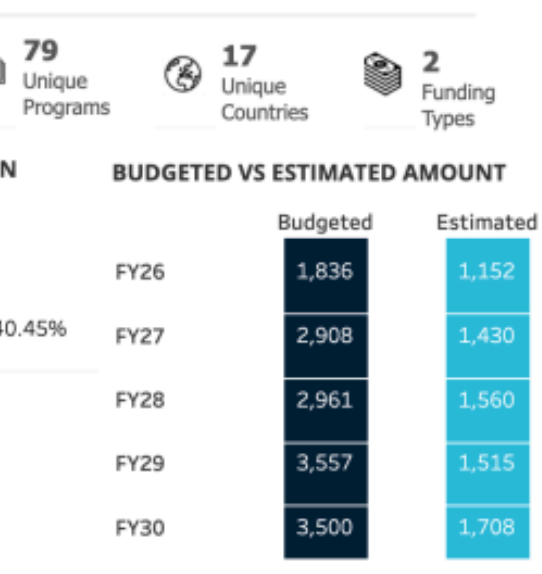
By pairing resilient PNT with IoT and SCADA-aware command layers, teams gain a city-wide operating picture that updates even when satellite links degrade. The result is safer corridors, faster coordination, and a common reference grid that does not collapse under pressure.



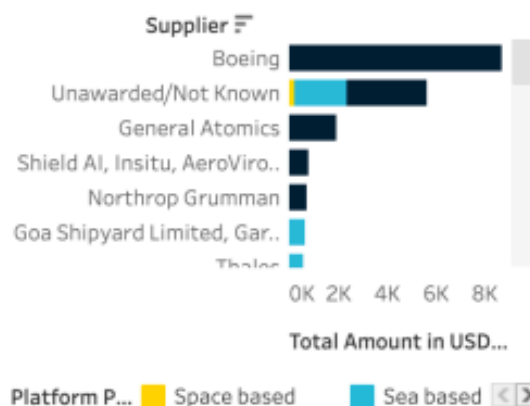
WATCH THIS SOLUTION

Long-range thermal, laser, and counter-radar

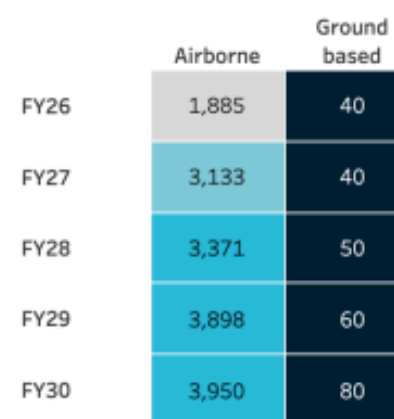
www.youtube.com/watch?v=sNG1A-1-aVw



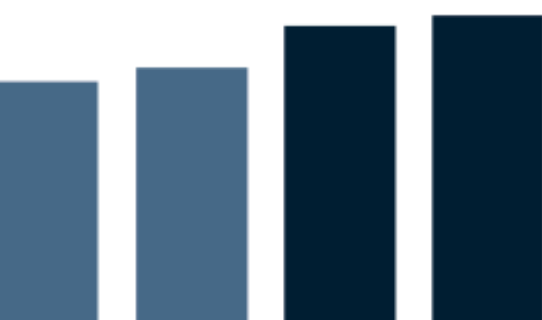
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BY YEAR



TOTAL AMOUNT BY PROJECT/PROGRAMME



TOTAL AMOUNT SPENT BY COU



ISR

SEAPORT AND AIRPORT MONITORING

Ports and airfields mix public movement with restricted ground. The mission is to watch aprons, quays, and approaches without treating the site as a generic camera grid.

The following page is the Circuitbull solution. A headline on this page, when one is shown, belongs to its publisher and links to the original. This essay is ours.

DEFENCE IQ · 2026-08-27

MARITIME ISR 2026 INTERACTIVE MARKET REPORT

[READ THE ORIGINAL](#)



ISR • CONTINUED

SEAPORT AND AIRPORT MONITORING

Ports and airfields mix public movement with restricted ground. The mission is to watch aprons, quays, and approaches without treating the site as a generic camera grid.

The catalog quotes this mission with sourced thermal and EO/IR sensors. Ranges and resolutions stay on the datasheet. This page does not add specifications.



WATCH THIS SOLUTION

Long-range EO/IR surveillance system

www.youtube.com/watch?v=6-jNngK-p7Y

FROM THE CATALOG



CB-000060

AGT-CTC64080 COOLED SENSOR LONG RANGE INFRARED THERMOGRAPHY CAMERA

The AGT-CTC64080 is a long-range cooled MWIR thermal camera with 640×512 resolution, 40–800mm continuous zoom, and ≤20mK



CB-000033

AGT-TTVC12110C-2150 INDUSTRIAL OUTDOOR THERMAL IMAGING CAMERA FOR BUILDING INSPECTION

The AGT-TTVC12110C-2150 is a dual-band long-range surveillance camera integrating a 1280×1024 uncooled VOx thermal image



CB-000057

AGT-DRC1930 WIDE AREA SURVEILLANCE DOME INFRARED CAMERA

The AGT-DRC1930 is a high-speed laser night vision dome camera with 2.1 MP HD CMOS, 30× optical zoom, 808nm NIR laser il



CB-000003

AGT-DMS10-4300-75 LONG RANGE HIGH SPEED THERMAL IMAGING CAMERA

A long-range high-speed dual-sensor PTZ thermal imaging camera designed for forest fire protection, perimeter security,

FROM THE CATALOG



CB-000017

AGT-BTVC6105-1930 DISTANCE HIGH SPEED THERMAL IMAGING CAMERA FOR RADAR LINKED SURVEILLANCE SYSTEM

The AGT-BTVC6105-1930 is a long-range, high-speed thermal/visible dual-spectrum PTZ camera for radar-linked surveillance



CB-000039

AGT-HTVC6511-2132 LONG RANGE THERMAL SECURITY CAMERA WITH MOTION DETECTION

The AGT-HTVC6511-2132 is a long-range dual-spectrum thermal security camera with a 640×512 VOx uncooled detector, 25–105



CB-000025

AGT-BRC1930X INFRARED PROFESSIONAL LASER NIGHT VISION CAMERA FOR VEHICLE

The AGT-BRC1930X is a vehicle-mounted infrared laser night vision PTZ camera with 1080p visible imaging, 810nm NIR laser



CB-000028

AGT-TC6511 LONG RANGE PROFESSIONAL THERMAL IMAGING CAMERA FOR ANTI-UAV

The AGT-TC6511 is a long-range professional thermal imaging camera system for anti-UAV and perimeter security, featuring



MARITIME

Def

LAKE AND RIVER MONITORING

Lakes and rivers form the quiet backbone of regional water security, yet they remain difficult to patrol with consistency. Shorelines shift, weather changes quickly, and human presence is often thin across large catchments.

Agencies responsible for these waterways need a monitoring model that does not depend entirely on boat patrols or fixed watch posts. The goal is to maintain awareness of vessel movement, water-quality events, and unauthorized activity without multiplying headcount.

DEFENCE IQ · 2026-09-21

HOW THE ROYAL NAVY IS BUILDING THE SURFACE FLEET OF THE FUTURE

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Circuitbull field photograph

MARITIME • CONTINUED

LAKE AND RIVER MONITORING

Circuitbull builds field-hardened monitoring networks that combine sourced sensors, low-power telemetry, and edge processing to cover wide water bodies from shore. Deployed units report position, environmental indicators, and alerts back to a central dashboard, giving operators a single view of many kilometers of waterway.

Because the architecture is modular, teams can start with a few shore stations and expand as requirements grow. The same network can later support SCADA integration, carbon monitoring, or IoT extensions—each built around Made in USA control and telemetry layers.



WATCH THIS SOLUTION

Gyro-stabilized marine night-vision PTZ

www.youtube.com/watch?v=X6vT_NtYG5M



COMBAT AIR

Def

BASE SECURITY MONITORING

Next-generation combat air initiatives are expanding the footprint of sensitive bases, and perimeter defenses must keep pace with faster aircraft turnaround, dispersed support areas, and a higher tempo of allied traffic.

Legacy camera networks and standalone access logs often leave blind spots between flight lines, fuel farms, and maintenance hangars, especially when commanders need a single operating picture across national and coalition facilities.

DEFENCE IQ · 2026-09-10

INSIDE GCAP: BUILDING THE NEXT GENERATION OF COMBAT AIR CAPABILITY

[READ THE ORIGINAL](#)



Pexels · Garrison Gao

COMBAT AIR · CONTINUED

BASE SECURITY MONITORING

A base security monitoring layer ties sourced video, radar, and access-control feeds into one Made-in-USA IoT and SCADA backbone, giving security forces a common view without forcing a rip-and-replace of existing infrastructure.

The same backbone can carry carbon and utility monitoring, so base operations teams track energy anomalies, environmental conditions, and perimeter events from a single dashboard built for expeditionary and garrison use.



WATCH THIS SOLUTION

Handheld thermal binocular

www.youtube.com/watch?v=8nKVm19Qu9U

FROM THE CATALOG



CB-000032

AGT-TC6307 PROFESSIONAL THERMAL IMAGING CAMERA FOR BORDER SURVEILLANCE

The AGT-TC6307 is a long-range thermal imaging PTZ camera for 24-hour border surveillance, featuring a 640×512 VOx uncooled



CB-000005

AGT-TC6516 LONG RANGE PROFESSIONAL THERMAL IMAGING CAMERA FOR FIREFIGHTING

The AGT-TC6516 is a long-range professional thermal imaging camera for firefighting and perimeter security, featuring a



CB-000015

AGT-TC61023 DISTANCE HIGH SPEED THERMAL IMAGING CAMERA FOR BORDER SURVEILLANCE

The AGT-TC61023 is a long-range high-speed thermal imaging PTZ camera for 24-hour border surveillance, featuring a 640×5



CB-000035

AGT-TC6519 IR HIGH SPEED THERMAL IMAGING CAMERA FOR BUILDING INSPECTION

The AGT-TC6519 is a long-range, high-speed thermal PTZ camera built around a 640×512 VOx uncooled detector with 38–190mm

FROM THE CATALOG



CB-000054

AGT-TTVC121030C-2186 ALL-WEATHER DUAL-SENSOR THERMAL CAMERA

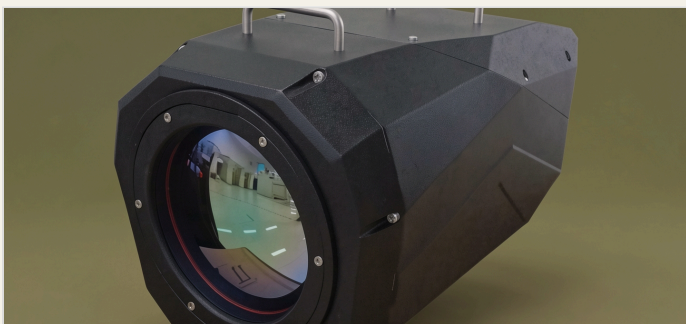
The AGT-TTVC121030C-2186 is an all-weather dual-sensor PTZ camera combining 1280×1024 thermal imaging and 2 MP visible-l



CB-000034

AGT-TTVC12615C-2186 PTZ DISTANCE HD THERMAL IMAGING CAMERA FOR BORDER

The AGT-TTVC12615C-2186 is a dual-band PTZ camera that combines a 1280×1024 uncooled thermal imager and a 2 MP full-HD v



CB-000008

AGT-CTC64080 COOLED THERMAL IMAGING CAMERA FOR FOREST FIRE

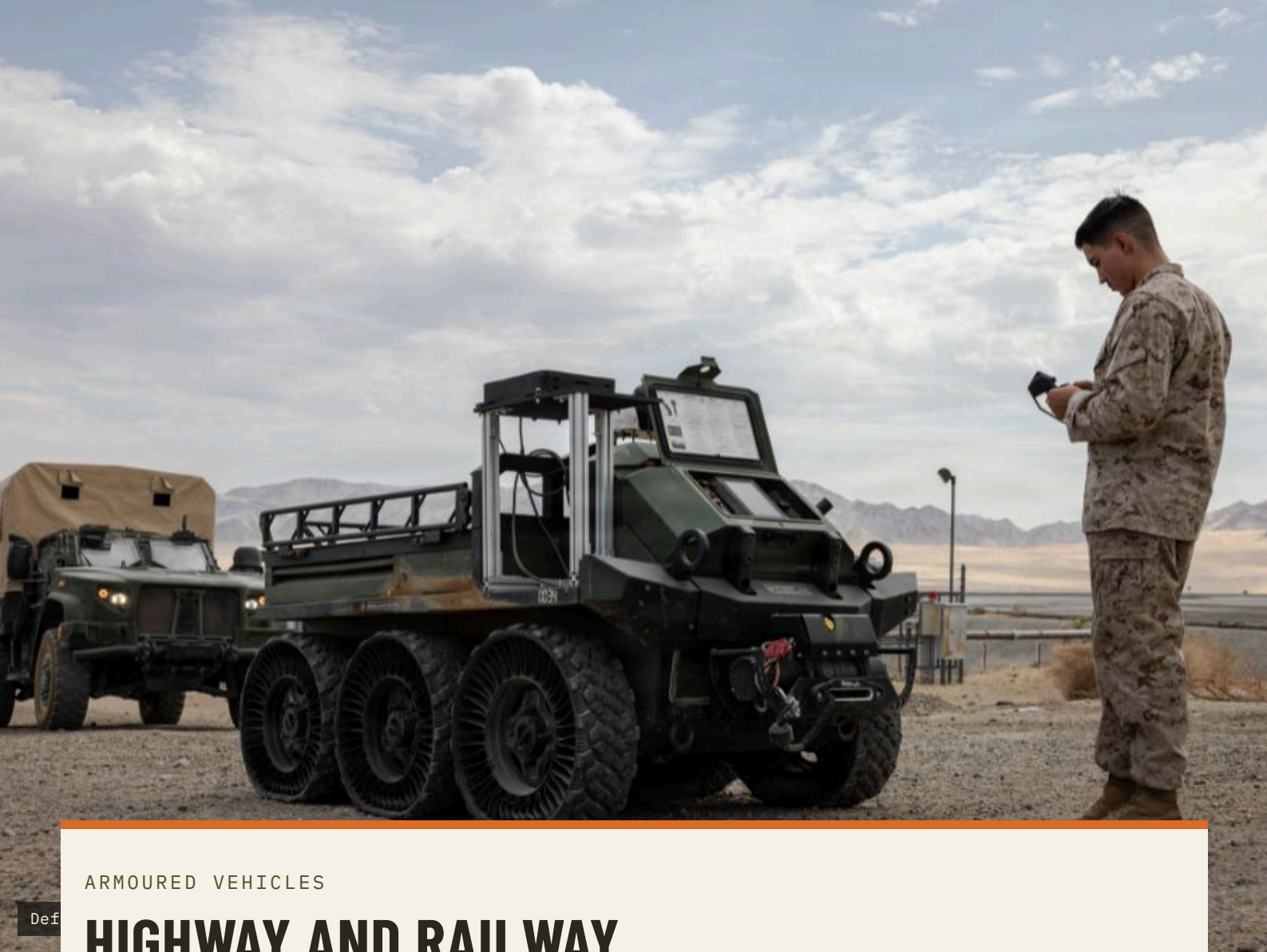
The AGT-CTC64080 is a cooled MWIR thermal imaging camera built for long-range forest fire detection and 24-hour surveill



CB-000024

AGT-CTC63066 OUTDOOR COOLED THERMAL IMAGING CAMERA FOR FOREST FIRE

The AGT-CTC63066 is an outdoor cooled MWIR thermal imaging camera with 640×512 resolution, 20mK NETD, and 30–660mm conti



ARMOURED VEHICLES

Def

HIGHWAY AND RAILWAY MONITORING

Modern logistics corridors face constant pressure from traffic congestion, weather events, and security incidents that demand real-time awareness beyond fixed infrastructure.

Commanders and operators need mobile monitoring layers that move with the mission, delivering situational understanding across highways and railways without relying solely on static checkpoints.

DEFENCE IQ · 2026-08-26

HOW ARE UNMANNED GROUND VEHICLES CHANGING MODERN WARFARE?

[READ THE ORIGINAL](#)



Circuitbull field photograph

ARMoured VEHICLES • CONTINUED

HIGHWAY AND RAILWAY MONITORING

Circuitbull integrates sourced sensor arrays with Made in USA IoT and SCADA control layers to create rolling observation posts that feed unified command dashboards.

Whether tracking convoy routes or rail cargo movements, the system turns armored mobility into persistent surveillance, giving teams the clarity to respond before conditions escalate.



WATCH THIS SOLUTION

Rugged vehicle PTZ

www.youtube.com/watch?v=X8T5RaYBn8



COMBAT SERVICES SUPPORT

STORAGE MONITORING

Supply depots and forward storage sites operate across dispersed terrain, where environmental shifts, unauthorized access, and inventory movement can compromise readiness without warning. Commanders need continuous awareness of what is stored, where it is, and whether conditions remain within acceptable limits.

Manual checks and paper logs cannot keep pace with modern sustainment demands. Delays in detecting temperature excursions, humidity spikes, or unrecorded entries create avoidable risk to perishable materiel, sensitive components, and operational timelines.



COMBAT SERVICES SUPPORT • CONTINUED

STORAGE MONITORING

Circuitbull deploys a Made in USA IoT and SCADA fabric across warehouses, container yards, and forward holding areas, linking environmental monitors, access controls, and inventory triggers into a single operational picture. The network feeds command dashboards in real time so logisticians can act before minor deviations become major losses.

Carbon monitoring and condition sensors track atmosphere and energy signatures inside storage spaces, while sourced camera streams provide visual confirmation at entry points and high-value lanes. Alerts route automatically to the responsible section, tightening accountability and preserving combat power where it is staged.



OPEN THE SOLUTION

circuitbull.com

circuitbull.com/en/solutions/storage

FROM THE CATALOG



CB-000021

AGT-DMS10-4300-100 VEHICLE MOUNTED INTELLIGENT ALARMS THERMAL CAMERA

Long-range dual-spectrum PTZ thermal camera with 100mm lens, 384×288 VOx detector, 47× visible zoom, laser illuminator,



CB-000038

AGT-BTVC4105-1930 VEHICLE-MOUNTED ADVANCED SMART SENSOR INFRARED CAMERA

A rugged vehicle-mounted dual-sensor PTZ camera combining a long-range thermal imager and a 2 MP 30x visible camera for



CB-000010

AGT-CTC63030 OUTDOOR COOLED THERMAL IMAGING CAMERA FOR BORDER

The AGT-CTC63030 is a cooled MWIR thermal imaging camera for long-range outdoor surveillance, featuring a 640×512 FPA MC

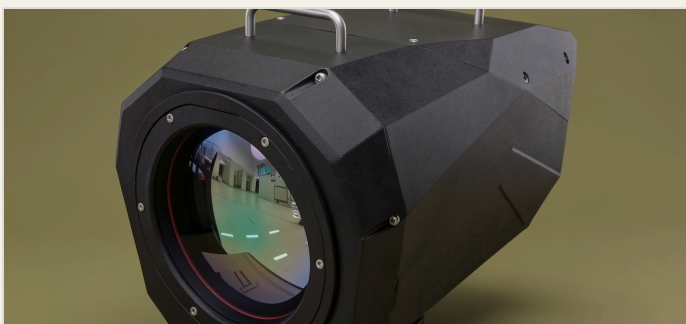


CB-000006

AGT-CTC690110 HD COOLED THERMAL IMAGING CAMERA FOR FOREST FIRE

The AGT-CTC690110 is a long-range MWIR cooled thermal imaging camera with continuous optical zoom, designed for 24-hour

FROM THE CATALOG



CB-000055

AGT-CTC64080 COOLED PTZ THERMAL IMAGING CAMERA

Long-range cooled MWIR PTZ thermal camera with 640×512 resolution, 40–800mm continuous zoom, and 20mK NETD for 24-hour f



CB-000030

AGT-MTC4102 THERMAL IMAGING HANDHELD CAMERA

The AGT-MTC4102 is a lightweight handheld thermal camera featuring a 384×288 5th-generation UFPA sensor, 20mm lens, 2× d



CB-000050

AGT-2D-RD600STS SECURITY RADAR

The AGT-2D-RD600STS is a 24 GHz FMCW phased-array security radar that detects and tracks moving targets such as people,



CB-000044

AGT-RJH2000 AIRPORT BIRD DETERRENCE LIGHTWEIGHT LASER JAMMING INTERCEPTION SYSTEM

The AGT-RJH2000 is a lightweight, modular laser jamming interception system designed to detect, track, and physically ne



COMBAT SERVICES SUPPORT

Pex

OILFIELD AND DEPOT SECURITY

Fuel and process sites need a watch that respects hazardous ground. The mission is the depot, the tanks, and the roads between them.

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Pexels · Diego F. Parra

COMBAT SERVICES SUPPORT · CONTINUED

OILFIELD AND DEPOT SECURITY

Fuel and process sites need a watch that respects hazardous ground. The mission is the depot, the tanks, and the roads between them.

The catalog quotes this mission with sourced thermal and EO/IR sensors. Ranges and resolutions stay on the datasheet. This page does not add specifications.



WATCH THIS SOLUTION

Explosion-proof multi-sensor PTZ

www.youtube.com/watch?v=1Bx38QzF_cY



FIELD MISSIONS

Pex

WATER SYSTEM MONITORING

Dams, reservoirs, and treatment sites are critical infrastructure with a long perimeter and a small night crew.

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FIELD MISSIONS • CONTINUED

WATER SYSTEM MONITORING

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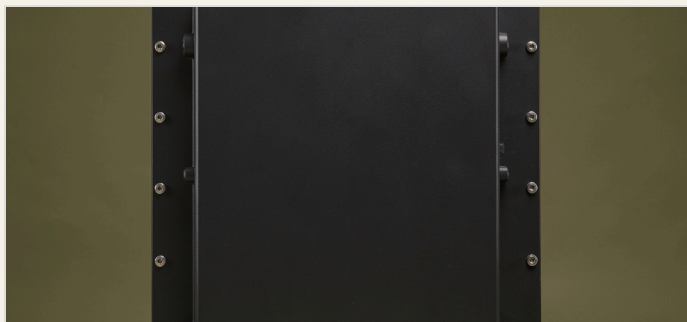


OPEN THE SOLUTION

circuitbull.com

circuitbull.com/en/solutions/water-systems

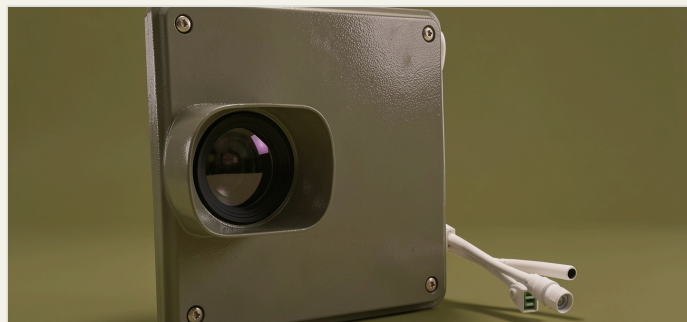
FROM THE CATALOG



CB-000049

AGT-2D-RD2000STS SECURITY AND SURVEILLANCE RADAR FOR AIRPORT BIRD DETERRENCE

The AGT-2D-RD2000STS is an FMCW phased array security radar that detects and tracks moving targets, reporting distance,



CB-000046

AGT-2D-RD800ES SECURITY AND SURVEILLANCE RADAR FOR MOVING TARGET DETECTION

The AGT-2D-RD800ES is a 24 GHz FMCW phased-array security radar that detects and tracks moving targets such as people, v



CB-000048

AGT-2D-RD1000STS SECURITY AND SURVEILLANCE RADAR

The AGT-2D-RD1000STS is a 24 GHz FMCW phased-array security radar that detects, tracks, and locates moving targets, repo



CB-000052

AGT-RCD-YT AIRPORT BIRD DETERRENCE ANTI-DRONE JAMMER SYSTEM

The AGT-RCD-YT is an integrated drone detection and countermeasure system that detects, direction-finds, identifies and

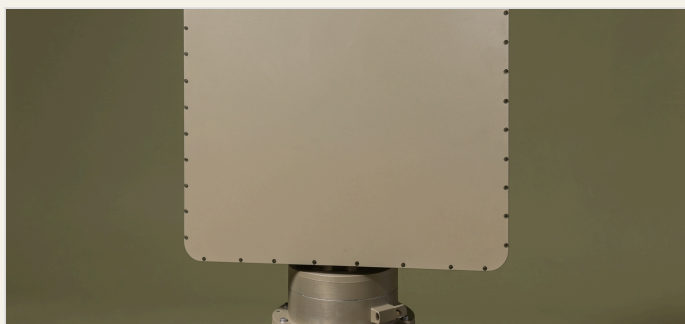
FROM THE CATALOG



CB-000047

AGT-2D-RD7500KU MOVING TARGET SURVEILLANCE RADAR (AIRPORT BIRD DETERRENCE)

The AGT-2D-RD7500KU is a Ku-band active phased-array 2D surveillance radar that detects and tracks pedestrians, vehicles



CB-000053

AGT-3D-RD5000X LOW-ALTITUDE AIRPORT BIRD DETERRENCE SURVEILLANCE RADAR

The AGT-3D-RD5000X is a three-coordinate surveillance radar for low-altitude and ground surveillance, featuring DBF tech



CB-000045

AGT-3D-RD6000KU AIRPORT BIRD DETERRENCE LOW ALTITUDE TARGET SURVEILLANCE RADAR

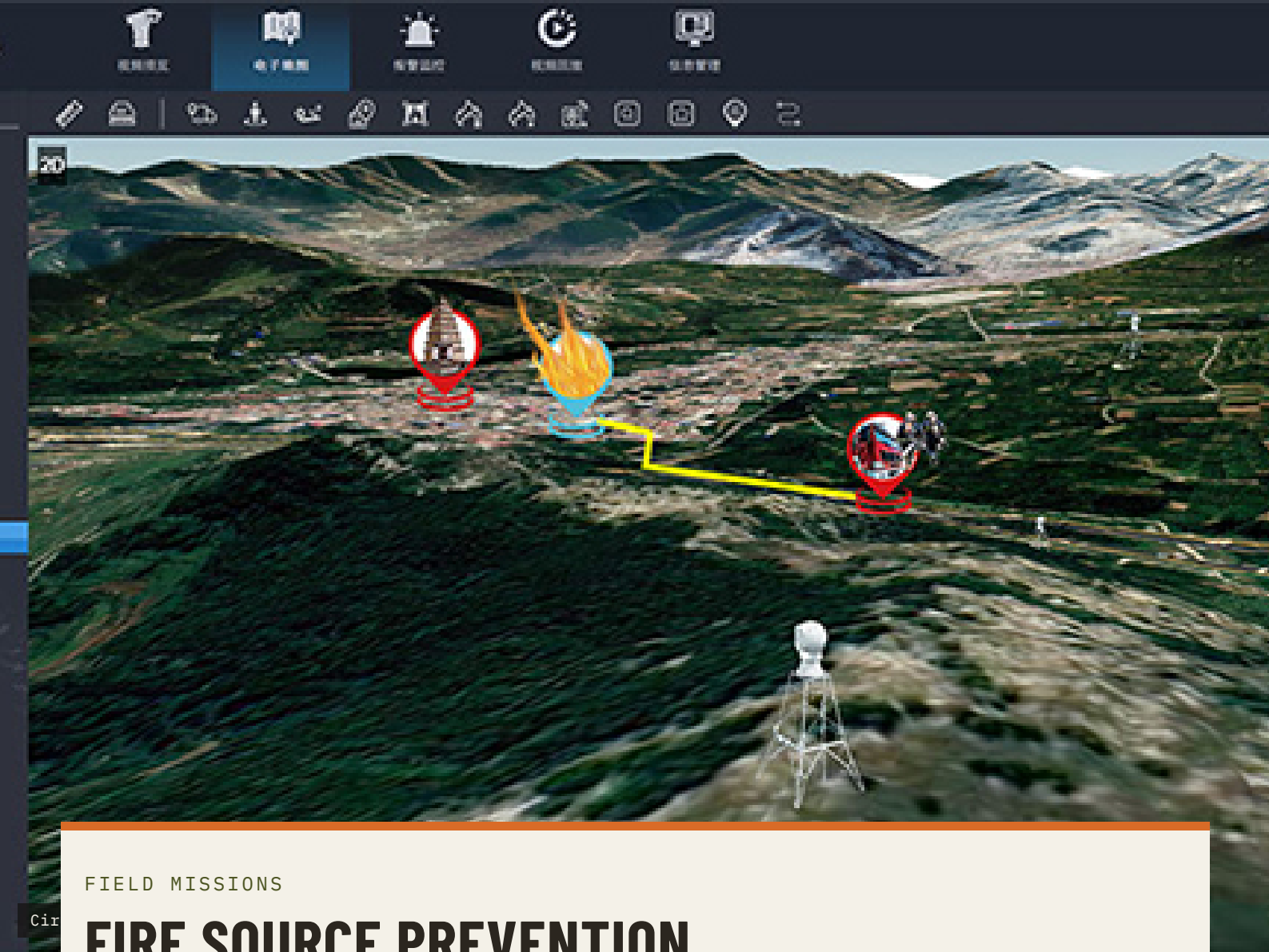
The AGT-3D-RD6000KU is a Ku-band low-altitude surveillance radar using DBF-based simultaneous multi-beam technology to d



CB-000001

AGT-KMS6300-35 MULTI SENSOR THERMAL BULLET CAMERA

The AGT-KMS6300-35 is a multi-sensor thermal bullet camera integrating a 640×512 VOx thermal imager, 2 MP visible CMOS,

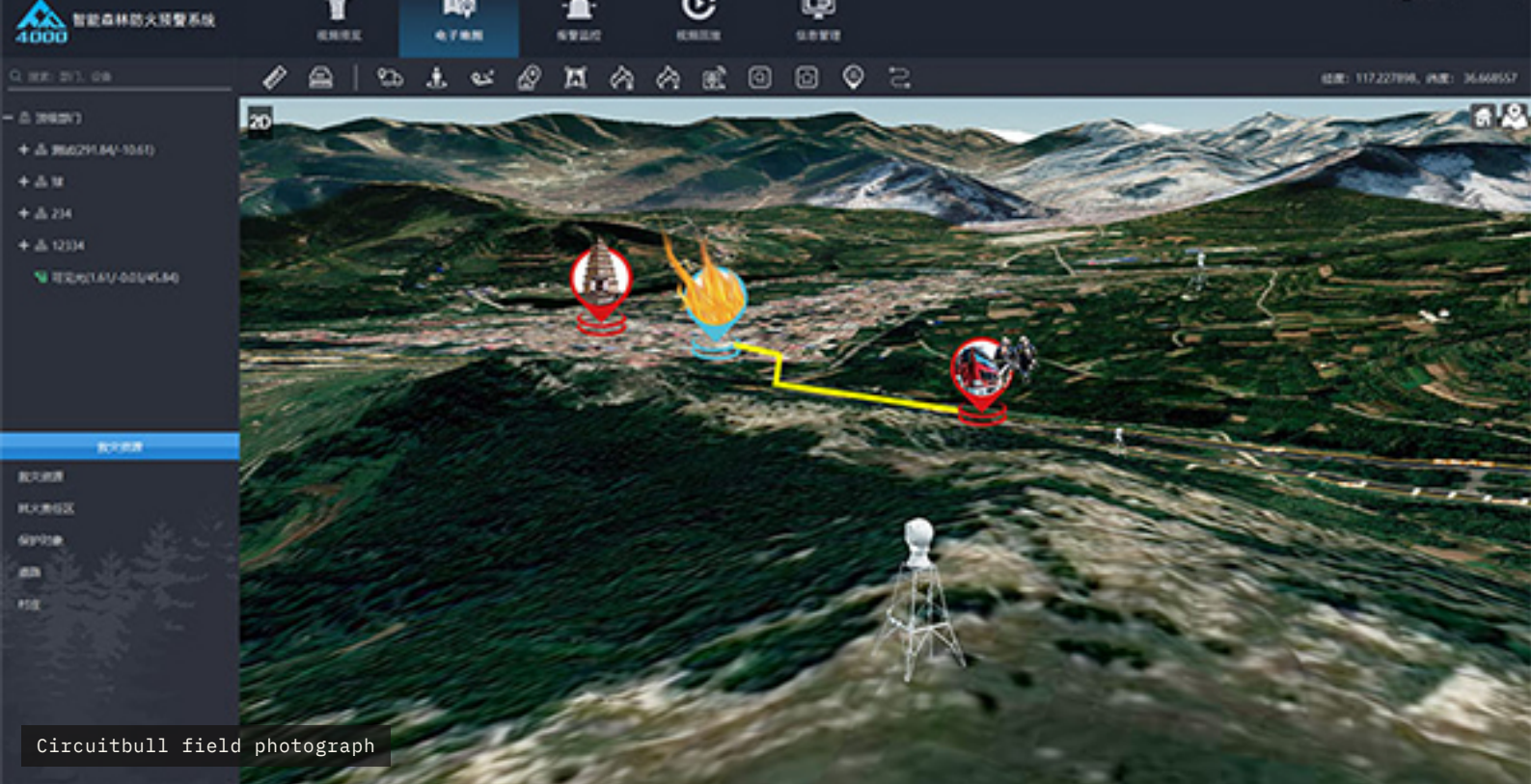


FIELD MISSIONS

FIRE SOURCE PREVENTION

Field teams often encounter ignition risks before flames appear. Combustible storage, overheating equipment, and electrical faults can escalate quickly when left unchecked.

Traditional patrols catch only what is visible during a walkthrough. By the time smoke or heat is obvious, the window for early response may already be closing.



Circuitbull field photograph

FIELD MISSIONS • CONTINUED

FIRE SOURCE PREVENTION

Circuitbull deploys networked sensor arrays that track temperature shifts, air quality, and electrical anomalies across the site. Data feeds into a SCADA dashboard that flags irregular patterns as they develop.

When readings trend toward unsafe conditions, the system triggers alerts to on-site crews and control rooms. This lets teams address the source before a fire can take hold.



WATCH THIS SOLUTION

Forest-fire early-warning system

www.youtube.com/watch?v=1Zs4MfXtLCc



FIELD MISSIONS

ECOLOGICAL MONITORING

Field teams working in remote reserves, wetlands, and rangelands often lose visibility between site visits. Seasonal flooding, grazing pressure, and unauthorized access can alter habitats before the next patrol cycle, leaving managers to reconstruct events from sparse notes.

Static guard posts and occasional foot surveys cannot cover the scale of modern conservation areas. Without continuous data, protected land managers struggle to separate natural variation from human-caused disturbance, delaying interventions that could prevent long-term damage.



Pexels · Pixabay

FIELD MISSIONS · CONTINUED

ECOLOGICAL MONITORING

Circuitbull builds solar-powered field stations that combine sourced sensors, Made in USA IoT telemetry, and SCADA-style control logic to watch water levels, soil moisture, and carbon-monitoring indicators around the clock.

Alerts reach rangers and researchers through a single dashboard, letting teams respond to changes while they are still manageable. The result is a lighter footprint on the landscape and a clearer record of ecological health over time.



OPEN THE SOLUTION

circuitbull.com

circuitbull.com/en/solutions/ecological

FROM THE CATALOG



CB-000016

AGT-KMS4300 DISTANCE INFRARED THERMAL IMAGING CAMERA

The AGT-KMS4300 is a dual-channel intelligent alarm thermal camera combining 5th-generation uncooled infrared and HD vis



CB-000014

AGT-KMS4200 HIGH TEMPERATURE IR THERMAL IMAGING CAMERA

The AGT-KMS4200 is a dual-spectrum thermal and visible-light imaging camera with high-temperature measurement, fire alar



CB-000043

AGT-TVC61023-20100 LONG RANGE MULTI-SENSOR THERMAL CAMERA

Long-range dual-sensor PTZ camera combining a 2MP visible module and a 640×512 uncooled thermal imager for 24-hour surve



CB-000023

AGT-TC12110C LONG RANGE THERMAL IMAGING CAMERA FOR MARINE MOUNTING

The AGT-TC12110C is a long-range uncooled thermal imaging camera with 1280×1024 resolution, a 100 mm lens, and IP66 mari

FROM THE CATALOG



CB-000027

AGT-TC6328 HD OUTDOOR THERMAL IMAGING CAMERA FOR BORDER SURVEILLANCE

The AGT-TC6328 is an ultra-long-range dual-FOV uncooled thermal imaging camera built for harsh outdoor surveillance. It



CB-000011

AGT-TC12105C OUTDOOR PROFESSIONAL THERMAL IMAGING CAMERA FOR BORDER SURVEILLANCE

The AGT-TC12105C is an ultra-long-range uncooled thermal imaging camera with 1280×1024 resolution, a 50mm athermalized l



CB-000009

AGT-TC121023C HD OUTDOOR THERMAL IMAGING CAMERA FOR BORDER SURVEILLANCE

The AGT-TC121023C is an ultra-long-range continuous zoom thermal imaging camera with 1280×1024 resolution, IP66 housing,



CB-000022

AGT-TC61021 HD TOP THERMAL IMAGING CAMERA FOR FIREFIGHTING

The AGT-TC61021 is a long-range uncooled thermal imaging camera with continuous 10x IR optical zoom, 640×512 resolution,



FIELD MISSIONS

STADIUM AND PLAZA MONITORING

Large civic venues present a moving mosaic of crowds, vehicles, and infrastructure that can overwhelm fixed security models.

Operators need a field-deployable layer that extends visibility across open plazas, concourses, and perimeters without relying on permanent buildings or grid power.



Pexels · Victor Barbosa

FIELD MISSIONS · CONTINUED

STADIUM AND PLAZA MONITORING

Circuitbull builds rapidly deployable monitoring nodes that integrate sourced EO/IR and video sensors with edge networking, giving teams live situational awareness from any vantage point.

The system streams into a centralized dashboard, supporting crowd-flow oversight, incident triage, and coordination with first responders across stadium zones and surrounding public spaces.



OPEN THE SOLUTION

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circuitbull.com/en/solutions/stadium-plaza

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