


MEGAPIX[®] Ai
Next-Generation Video Analytics

Detect in the dark. Verify in full color.

5MP Visible sensor | 320×240 Thermal core | -40°F Cold start



DW
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TWO SENSORS. ONE CAMERA. ZERO BLIND SPOTS.

Thermal detection, 5MP visual verification and AI analytics for accurate perimeter protection in any environment.

The 5MP Bispectral Thermal AI Camera fuses long-wave thermal sensing with high-resolution visible imaging in a single ruggedized enclosure — so nothing crosses your perimeter unseen.

NDAA COMPLIANT

TAA COMPLIANT

ONVIF PROFILE

UL LISTED

CE/FCC

5-YEAR WARRANTY



Thermal · 320×240NETD 65 mK

Verification in full color

5.69M CMOS with 0.16 lux color sensitivity, 80' Smart IR, and 120 dB WDR delivers court-usable evidence — even under harsh backlight or near-total darkness.



Visible · 5MP tar-Light PlusTrue WDR 120dB

Detection in complete darkness

7.8-14 μ m spectral range catches body heat, engines, and thermal anomalies through fog, smoke, and adverse weather — where visible cameras go blind.

ENGINEERED TO SEE WHAT OTHERS MISS.

AI object detection & tracking

On-camera classification of people and vehicles. Filter alerts by object type, direction, line crossing, dwell, tailgating, and logical rules.

40 detection zones

Draw up to 40 independent zones and combine them with logical rules to eliminate false alarms in complex sites.

Thermal anomaly detection

Trigger events on temperature signatures — engines, fires, mammals, or unauthorized ignition — even before intruders reach the fence.

True WDR · 120 dB

Balances harsh backlight and deep shadow. Read license plates against headlights; see faces in doorway silhouettes.

Star- Light Plus + 80' Smart IR

Full-color imaging down to 0.16 lux with intelligently synced IR for crisp B/W in total darkness.

-40°F cold start

Operates -40°F to 122°F. DC-powered cold start at -40°F for the harshest perimeter deployments.

IP66 · IK09 rugged housing

Sealed against dust and water, impact-rated against vandalism. Built for outdoor perimeters, not decorative lobbies.

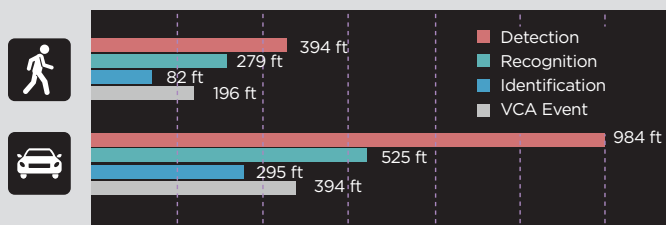
NDAA & TAA compliant

Cleared for federal, government, and critical-infrastructure projects. 5-year warranty on every unit.

PURPOSE-BUILT FOR PERIMETER REALITY.

See threats from up to 984 ft away.

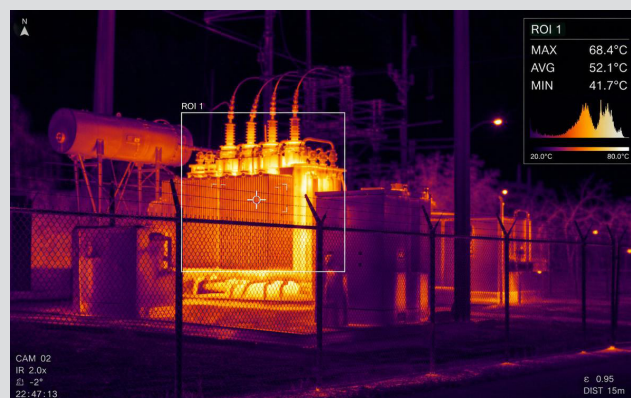
Long-wave thermal optics extend actionable range far beyond visible cameras — detect a vehicle at 984 ft and a person at 394 ft, day or night, through fog, smoke, and glare.



Thermal · 320×240NETD 65 mK

Catch fires and equipment faults before they escalate.

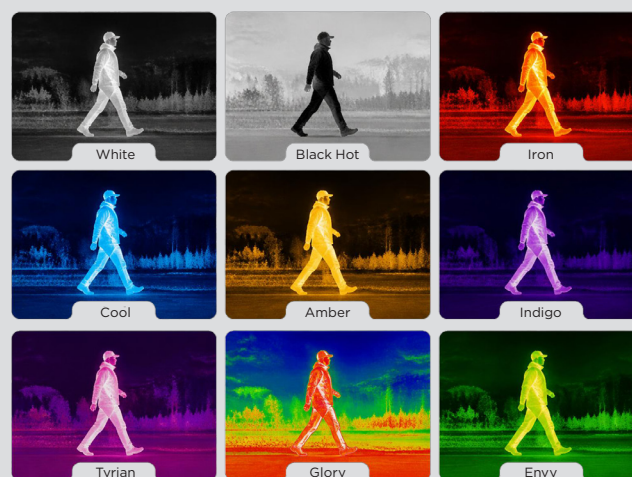
Draw ROIs and set min / max / average temperature thresholds. Trigger real-time alarms on overheating machinery, hot bearings, ignition sources, or unauthorized heat signatures.



Abnormal temperature alarm

Nine palettes. One camera. Every operator tuned in.

Switch between White Hot, Black Hot, Iron, Cool, Amber, Indigo, Tyrian, Glory, and Envy to maximize contrast for the scene, task, and viewing conditions. Fatigue drops, targets pop.



9 Thermal color palettes

WHERE VISIBILITY CAN'T FAIL.



Critical infrastructure

Substations, water treatment, telecom, and data centers. Detect intrusion before it reaches the fence.



Logistics & industrial yards

Warehouses, ports, and container yards where sodium-vapor lighting blinds standard cameras.



Utilities & renewables

Solar farms, wind sites, and pipeline corridors — long perimeters, low light, extreme temperatures.

EVERY SPEC.

Model DWC-XTBG05DiT · MEGAPIX.AI 5MP Bullet Thermal Bispectral AI Security Camera.

VISIBLE IMAGING		THERMAL IMAGING		AI ANALYTICS	
Sensor	5.69MP CMOS · 2592 × 1944 active	Resolution	320 × 240 · 12 μm pixel pitch	Detection	Object tracking · people · vehicles
Lens	4.0mm F2.0 fixed · 82.3° HFoV	Lens	4.0mm F1.0 · 56° HFoV	Filters	Intrusion, line crossing, tailgating, dwell, counting, appear/disappear
Min. illumination	0.16 lux color · 0 lux B/W	Spectral range	7.8 – 14 μm	Zones	Up to 40 · logical rules
Smart IR	80 ft (24 m)	NETD sensitivity	65 mK typ. @ 25°C	Events	Motion, temperature anomaly, tamper, sensor, schedule
WDR	True WDR · 120 dB	Palettes	9 (white, black, iron, cool, amber, indigo, tyrian, glory, envy)	VMS	DW Spectrum · ONVIF



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Built for Users.™

