



Summary

The DWC-XTBG05DiT integrates 5MP visible imaging and thermal imaging into a single rugged camera for dependable perimeter security. AI-based analytics, true WDR, and thermal anomaly detection deliver accurate performance, reduced false notifications, and clear visual verification, day or night. The camera is NDAA/TAA-compliant and backed by a full 5-year warranty.

Features

- Bispectral detection and verification – Combines 5MP visible imaging with thermal sensing to detect intruders and visually confirm events from a single camera.
- Thermal imaging enables intrusion detection in complete darkness, harsh weather, fog, or smoke where standard cameras fail.
- Star-Light Plus color in near-total darkness technology.
- AI-based object and people detection, classification and tracking.
- Create up to 40 separate detection zones.
- Seamless integration and control with DW Spectrum.
- Reduce false alarms with multiple detection zones and logical rules.
- Increase your recording storage with smart recording and no false alarms.
- Lower total cost of ownership – Two cameras in one reduce installation complexity, hardware costs, and maintenance requirements
- 2x 4.0mm fixed lenses.
- True Wide Dynamic Range (WDR) for clear images in challenging light
- Simultaneous streaming and multiple codec options for smart bandwidth management
- Cold Start -40°F (-40°C) (DC power), allowing the camera to power up in extremely cold environments
- 80' Smart IR with intelligent camera sync for clear B/W images with no need for external light
- Smart DNR 3D digital noise reduction minimizes noise and ghosting in motion, particularly in low-light environments.
- Privacy zones cover sensitive areas in the camera's field of view.
- Audio input and output for direct communication between the monitoring station and the camera's location.
- Local SD card slot for local recording in case of network loss.
- Alarm sensor input and relay output for access control integration
- PoE and DC12V for single cable simplified installation
- NDAA/TAA compliant for federal and government projects
- IP66- and IK09-rated camera housing built to last
- 5 year warranty

Specifications

IMAGE	
Image sensor	Visible: 5.69M CMOS sensor
Total pixels	Visible: 2704(H) X 2104(V)
Active pixels	Visible: 2592(H) X 1944(V)
Minimum scene illumination	Visible: 0.16 lux (color), 0 lux (B/W)
S/N ratio	50dB
Test monitor video output	Local video output CVBS 1.0V p-p (75Ω), 4:3 aspect ratio
LENS	
Focal length	Visible: 4.0mm, F2.0
Lens type	Fixed Lens
Field of view	Visible HFoV: 82.3° / Visible VFoV: 58.8°
IR distance	Visible: 80ft
I/O	
Audio input/output	1 line input (1.0Vms, 3K ohm)/ 1 output
Audio compression	G.711 ulaw
Alarm input/output	1 input/1 output
Event trigger	Motion alarm, network loss, temperature anomaly, illegal login, schedule, sensor detection, tamper detection
INTELLIGENT VIDEO ANALYTICS (VISIBLE LENS ONLY)	
AI-based analytics	AI-based object tracking
Analytics filters	Zones and lines, tamper, metadata, intrusion, line crossing, counting, counting lines, appear, disappear, stopped, enter, exit, direction, tailgating, dwell, logical rules
OPERATIONAL	
Shutter mode	Auto, manual, anti-flicker, slow shutter
Shutter speed	1/15 - 1/32000
Slow shutter	1/2, 1/3, 1/5, 1/6, 1/7.5, 1/10
Auto gain control	Auto
Day and night	Auto, day (color), night (B/W)
3D Digital Noise Reduction	Smart DNR™ 3D-DNR
Wide Dynamic Range (WDR)	True WDR, 120dB
White balance	Yes
Privacy zones	16 programmable privacy masks
Mirror and flip	Yes
Alarm notifications	Email, FTP, alarm output and SD card recording
Memory slot	Micro SD/SDHC/SDXC class 10 card (not included)
THERMAL	
Image sensor	76.8K CMOS sensor
Total pixels	320(H) X 240(V)
Active pixels	320(H) X 240(V)
Focal length	4.0mm, F1.0
Field of view	HFoV: 56° / VFoV: 42°
Pixel Pitch	12 μm
Aspect Ratio	4:3
Image Uniformity	Automatic NUC (with shutter)
Optimization	
Spectral Range	7.8 - 14 μm
Thermal Sensitivity - NETD	65 mK (typ.), <100 mK (max) @25°C
Thermal Palettes	White, black, iron, cool, amber, indigo, tyrian, glory, envy
Resolution	H.265, H.264: 640x480, 320x240 MJPEG: 640x480, 320x240
Framerate	Up to 9fps
NETWORK	
LAN	RJ45 (10/100Base-T)
Video compression type	H.265, H.264, MJPEG
Resolution	Visible H.265, H.264: 2592x1944, 2560x1440, 1920x1080, 1280x720, 800x600, 704x576, 704x480, 640x480, 640x360, 352x288, 352x240 Visible MJPEG: 1920x1080, 1280x720, 800x600, 768x432, 704x576, 704x480, 640x480, 640x360, 352x288, 352x240
Video bitrate	100Kbps - 25Mbps, multi-rate for preview and recording
Bitrate control	Multi-streaming CBR/VBR at H.264, H.265 (controllable frame rate and bandwidth)
Streaming capability	Triple Streaming (3rd stream MJPEG only)
Protocol	TCP/IP, UDP, AutoIP, RTP (UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, IPv4, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3 (MIB-2), ONVIF
Security	HTTPS (TLS), IP filtering, 802.1x, digest authentication
ONVIF conformance	Yes
Web viewer	OS: Windows OS, Mac OS, Linux OS Browser: Microsoft Edge, Google Chrome, Mozilla Firefox, Safari
VMS	DW Spectrum
ENVIRONMENTAL	
Startup temperature	-4°F - 122°F (-20°C - 50°C), Cold Start -40°F on DC only
Operating temperature	-40°F - 122°F (-40°C - 50°C)
Operating humidity	10-90% RH, (non-condensing)
IK/IP rating	IK09 impact-resistant/ IP66-rated
Other certifications	CE, FCC, UL, NDAA, TAA
ELECTRICAL	
Power requirement	DC12V, PoE, adapter not included
Power consumption	12V DC: 23.3W, 1.94A, PoE: 11.6W, 241mA
MECHANICAL	
Dimensions	9.53" x 3.8" (242.3 x 96.7mm)
Weight	2.16 lbs (0.98 kg)
Warranty	5 year warranty



Accessories (optional)



DWC-BLJUNC-W
Junction box



DW-POEInjector
PoE injector



DWC-PMB-WLW
Pole mount bracket

Dimensions

Unit: Inch (mm)

