



任務型錄 · CB-000058

## 陀螺穩定自動PTZ追蹤熱成像攝影機

製冷型MWIR熱成像結合星光級可見光，實現全天候遠距離自動PTZ追蹤。

型號 AGT-Z50II-CTVC62245-2186

### 主要優勢

- 更寬廣的偵測頻譜：整合高解析度可見光、MWIR熱成像及選配NIR雷射，實現互補式主動/被動偵測與多源融合，消除晝夜及全天候環境中的隱藏目標。
- 更快的反轉速度調整：旋轉速度高達 $80^{\circ}/s$ 、加速度高達 $100^{\circ}/s^2$ ，可實現快速啟停、平順運作，並迅速捕捉與追蹤移動目標。
- 更廣的覆蓋範圍： $0^{\circ}$ – $360^{\circ}$ 水平旋轉與 $-90^{\circ}$ 至 $+90^{\circ}$ 俯仰範圍，提供無死角偵測與全維度覆蓋。

## 說明

AGT-Z50II-CTVC62245-2186 是一款堅固耐用的陀螺穩定PTZ攝影機系統，將製冷型MWIR熱成像儀、超低照度高解析度可見光攝影機，以及選配的近紅外線（NIR）雷射照明或雷射測距儀整合為單一多感測器載荷。其專為完全黑暗、霧、雨及其他嚴苛環境中的遠距離監控而設計，提供連續光學變焦、主動自動對焦、數位影像增強及智慧影像分析功能。系統支援自動目標追蹤、火災偵測、入侵與跨境分析、人車分類、人臉偵測及AR資訊融合。高速伺服轉台可提供360°連續水平旋轉、±90°俯仰、最高100°/s<sup>2</sup>加速度，以及優於0.02°的定位精度，而選配的雙軸陀螺穩定則可在移動平台或強風條件下保持視線精度。專為嚴苛工業與戶外部署而打造，攝影機可在-40 °C至+60 °C環境下運作，符合IP66/IP67防護等級，通過96小時鹽霧測試，並具備突波保護、斷電記憶、遠端維護及多層級安全控制功能。

## 概述

- 結合可見光攝影機、熱成像攝影機（製冷型/非製冷型）及選配NIR雷射照明等多感測器模組，可在完全黑暗及霧雨環境中進行遠距離監控。
- 選配系統強化功能包括雷射測距儀、GPS、電子羅盤、自動追蹤系統及AI分析模組，以實現全天候全維度監控、定位、追蹤與識別。

## 應用

- 遠距離周界與邊境安全
- 海岸、海事與港口監控
- 關鍵基礎設施與資產保護
- 搜索、救援與移動目標追蹤
- 火災偵測與預警監控
- 霧、雨及低照度環境下的全天候日夜監控



## 技術規格

| ENHANCEMENTS                        |                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ranging function</b>             | support passive ranging; support optional laser ranging                                                                                                                                                                                                                                           |
| <b>Strong light protection</b>      | support, protection from Sun Burn function                                                                                                                                                                                                                                                        |
| <b>Temperature Correction</b>       | non-thermal design, imaging sharpness is not affected by temperature                                                                                                                                                                                                                              |
| <b>Scene mode</b>                   | support multi-configuration scene, adapt to different environment applications                                                                                                                                                                                                                    |
| <b>Auto-focus tuning</b>            | support remote auto-focus accuracy parameter adjustment, adapt to different scenarios                                                                                                                                                                                                             |
| <b>Day-night cruise</b>             | day-night cruise groups with different preset, day cruise 1-40 preset, night cruise 41-80 preset, according to the state of light automatically switch day and night, adapt to different space-time scenarios                                                                                     |
| <b>Lens servo</b>                   | support lens pre-position, focal length back, focal length positioning function                                                                                                                                                                                                                   |
| <b>Power-off memory</b>             | support to restore the pre-power-off position, pre-position state, cruise state, line scan state                                                                                                                                                                                                  |
| <b>Off and on</b>                   | support                                                                                                                                                                                                                                                                                           |
| <b>Camera diagnosis function</b>    | support network alarm, support IP conflict alarm, support illegal access alarm (illegal access number, lock time can be set), support SD card abnormal alarm (SD space is insufficient, SD card error, no SD card), video block alarm, anti-sun damage (support threshold, block time can be set) |
| <b>Life Cycle Management</b>        | Health Index recording function, support working time, shutter times, working temperature, limit temperature, etc.                                                                                                                                                                                |
| <b>Remote Maintenance</b>           | with fault inquiry, self-examination, remote restart function; online upgrade, remote upgrade                                                                                                                                                                                                     |
| <b>Keyframe settings</b>            | support keyframe interval 100-level adjustable                                                                                                                                                                                                                                                    |
| <b>Configuration File</b>           | Support Configuration File Import and export function                                                                                                                                                                                                                                             |
| <b>Web Access</b>                   | support WEB full function configuration, remote online upgrade                                                                                                                                                                                                                                    |
| SECURITYCONTROL                     |                                                                                                                                                                                                                                                                                                   |
| <b>Support illegal access alarm</b> | illegal access number, lock time can be set                                                                                                                                                                                                                                                       |
| <b>Security mode</b>                | authorized user name and password, support IP white list and black list, Mac White list and black list                                                                                                                                                                                            |
| PTZ                                 |                                                                                                                                                                                                                                                                                                   |
| <b>Structure</b>                    | spherical, multi-dimensional free-form surface shape, small wind resistance, strong anti-shake, can resist 12 strong wind                                                                                                                                                                         |

## 技術規格

| PTZ                      |                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Windows                  | Dual/triple windows, 2/3 band sensors, wiper                                                                                                             |
| Level range              | N × 360 ° continuous rotation, after power failure can be mechanically locked                                                                            |
| Pitch range              | -90 ° ~ + 90 °, with soft limit function, program can be set                                                                                             |
| Rotation Speed           | level                                                                                                                                                    |
| Acceleration             | 100 ° S 2 level, 100 ° S 2 pitch                                                                                                                         |
| Speed adaptation         | with intelligent induction speed change function, support lens focal length speed adaptation function                                                    |
| Driving mode             | adopting high torque rare earth permanent magnet synchronous motor direct drive, high speed start and stop                                               |
| Positioning accuracy     | better than                                                                                                                                              |
| Location Time            | less than 4s                                                                                                                                             |
| Zero setting             | support for horizontal and pitch zero setting                                                                                                            |
| Preset cruise            | 3000, supports 16 cruise routes, each can support 256 preset positions                                                                                   |
| Path scan                | Support Preset Point Cruise, day and night cruise, line scan, frame scan, apple skin scan, scan speed can be set                                         |
| Over watch               | preset position/pattern scan/cruise scan/vertical scan/frame scan/panoramic scan/apple peel scan/horizontal fan scan                                     |
| Motor Protection         | turntable block and turn protection, high reliability                                                                                                    |
| Gyro image stabilization | optional two-axis gyro stabilization, pitch and roll $\leq \pm 10^\circ$ , period greater than 6 seconds, los stabilization accuracy $\leq 2$ mrad (RMS) |
| INTERFACE                |                                                                                                                                                          |
| Network interface        | 1-way RJ45,10/100base-t adaptive                                                                                                                         |
| Network protocol         | support HTTP, HTTPS, FTP, SMTP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, ICMP, DHCP network protocol; support ONVIF and GB28181 protocol                     |
| Secondary development    | provide free SDK, easy to use or convenient secondary development                                                                                        |

## 技術規格

| INTERFACE            |                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------|
| Physical interface   | Alloy Waterproof Aviation Plug                                                                                      |
| Optical network      | (optional built-in Fiber Module, single mode fiber output, improve anti-interference)                               |
| POWER                |                                                                                                                     |
| Power consumption    | the maximum power consumption of the turntable is less than 500W and the stable power consumption is less than 150W |
| Dimensions           | 480mm &times;                                                                                                       |
| H825mm Total weight  | ≤85 kg                                                                                                              |
| ENVIRONMENT          |                                                                                                                     |
| Working Temperature  | -40 °C ~ + 60 °C                                                                                                    |
| Storage Temperature  | -45 °C ~ + 70 °C                                                                                                    |
| Humidity             | < 90% Rh                                                                                                            |
| Lightning protection | Interface Circuit built-in surge protection, 6000V                                                                  |
| Salt spray           | in PH                                                                                                               |
| Protection class     | IP66(Ball Chamber air-tight IP67)                                                                                   |

文件管制頁

|      |                         |
|------|-------------------------|
| 發行機構 |                         |
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| 品牌   | Circuitbull®            |
| 母機構  | Volls Global · volls.us |

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| 矩陣碼 · 掃描以開啟                                                                        |                                                                                    |                                                                                     |                                                                                      |
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| 本產品<br>circuitbull.com/.../<br>agt-z50ii-ctvc62245-2186-<br>739209788              | 登記地址<br>1207 Delaware Ave #5352                                                    | 主網站<br>circuitbull.com                                                              | VOLLS GLOBAL<br>volls.us                                                             |

分發聲明

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