# MegCube
# Product specification

## MegCube-B3R-412 N0



Product Features:

Compatible Camera:

- Support RTSP network camera

- Support GA/T1400 captured camera

- Support H.265/H.264, maximum 8MP camera

AI Features:

- Support 64 Face Library, Maximum 300,000 face capacity

- Multi-Channel/Multi-Algorithms: Face Mode, Mixed Mode (Face Body Binding, Video Structuring)

- Face Mode: Supports face detection and recognition of 4 channels of video streams, or recognition of 8 channels of face captured cameras

- Mixed Mode: Support 4 channel face body binding or video structured, and can be mixed by channel

- Support face capture, face recognition alarm, stranger recognition alarm, etc.

- Support the recognition of face attributes: gender, age, wearing a hat, wearing glasses,wearing a mask, etc.

- Supports the capture of faces, human bodies, motor vehicles, non-motor vehicles,license plates, face-to-body binding, and body-non-motor vehicle binding

- Supports analysis of human attributes such as the color of upper and lower clothes, style of upper and lower clothes, backpack status, and whether to wear a helmet or not

■ Support motor vehicle classification, color, brand, driving direction and non-motor vehicle classification and other vehicle attributes analysis

■ Support license plate recognition and license plate-motor vehicle binding relationship

System Features:

■ Support working with Pangu, Insight

■ Provide GA/T1400 Standard protocol

■ Provide REST API for integration

Application Scenarios:

■ Provides the capabilities of face recognition and full-target structured analysis. With the upper platform software, it can realize the closed loop of face recognition and video structured scenes

■ Used in places where face recognition is required, such as entrances and exits of communities/office buildings, key personnel alarms, stranger alarms, etc

■ Applied to structured places where full objects recognition are required, such as human and vehicle management in smart parks, and license plate recognition in smart communities, etc.
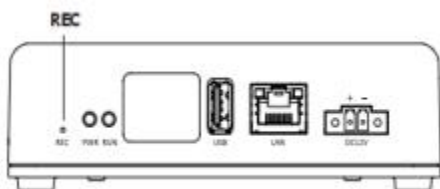
## Specification：

| System | |
|---|---|
| Main Processor | High performance microprocessor |
| OS | Embedded Linux |
| Compatible Camera | |
| Video Stream | Resolution:<br>1920 x 1080（2MP）、2560 x 1440（4MP）、3840 x 2160（800MP） |
| | The relationship between the number of access channels and the resolution:<br>1) Face mode: maximum support 4 channels @2MP, 4<br>channels @4MP, 4 channels @8MP<br>2) Mixed mode: maximum support 4 channels @2MP,<br>also 4 channels @4MP, 4 channels @8MP |
| Video Format | H.264/H.265 |
| Face Captured Camera | Support up to 8 channels of captured camera (the captured camera needs to support the GA/T1400 protocol) |
| AI | |
| Face Mode | Support face capture, face recognition, face attributes |

| | |
|---|---|
| Mixed Mode (According to channel configuration, it can be switched between face and structured algorithms Switch) | Face-Body binding + face recognition: face capture, face recognition, face attributes, human body capture, human attributes, face-body |
| | Video structured<br>1) Captured Image: face, human body, motor vehicle, non-motor vehicle, license plate<br>2) Attribute output: face, human body, motor vehicle, non-motor vehicle, license plate<br>3) License plate recognition<br>4) Association relationship: face to body binding, vehicle to license plate binding, human to non-motor vehicle binding |
| Passive Upload | 1) Face capture, face recognition, face attribute results<br>2) Snapshots and attributes of face, body, vehicle and non-motor vehicle, license plate recognition results |
| Face | Captured Rate ≥ 99% |
| | Captured FP < 1% |
| | Recognition Accuracy ＞99.5% |
| | Recognition FP：＜0.5% |
| | Face Capacity 300,000 |
| Human Body | Captured Rate ≥ 95% |
| | Captured FP ＜ 1% |
| Vehicle | Captured Rate ≥ 90% |
| | Captured FP ＜ 1% |
| Non-Motor-Vehicle | Captured Rate ≥ 95% |
| | Captured FP ＜ 1% |
| License Platte | Captured Rate ≥ 95% |
| | Captured FP ＜ 1% |
| | Recognition Accuracy≥ 95% |
| **Interface** | |
| Network | 2, 10M/100M/1000M adaptive Ethernet, RJ45 |
| USB | 1，USB3.0 |
| Power | 1, 2Pin Green Port |
| Reset (REC) | 1 hole; long press for 10s, from the end of the green light flashing slowly to the fast flashing, the factory settings are restored |
| Power indicator (PWR) | 1，red LED |
| Running indicator (RUN) | 1，green LED |
| Grounding Pillar | 1，at the bottom |

| System Function | |
|---|---|
| Face Recognition | Access Control |
| | Key personnel, Stranger Surveillance and Alarm |
| Structure | Face/Body/Vehicle/Non-motor-Vehicle capture and attributes, license plate recognition |
| Network Protocol | TCP/UDP/HTTP/MULTICAST/DHCP/FTP/NTP/HTTPS/RTSP/GAT1400 etc. |
| Dual Network Port | Support three modes of "multi-address setting", "load balancing",and "master- slave mode" |
| Log | Query, search and display of captured information of face, human body, vehicle and non-motor-vehicle |
| Working Environment | |
| Working Temperature | -20℃ ～ +65℃ |
| Storage Temperature | -40℃ ～ +80℃ |
| Humidity | 40% ～ 90%RH，no condensation |
| Others | |
| Power Supply | DC12V±10%，2A |
| Material | Cast aluminum alloy metal chassis |
| Dimensions | 136mm（L） x 98mm（W） x 40mm（H） |
| Weight | ≤0.5Kg |

Appearance：

# Data Security and Disclaimer

Please note that Beijing Megvii Technology Co., Ltd. (hereinafter "Megvii") products may involve the collection, storage, and use of face data and other relevant data. Governed by reasonable business rules, Megvii provides relevant devices, products, and functional features (collectively "these features") as clearly required by Megvii customers and other relevant parties (hereinafter "interested parties") to implement relevant functions, including facial recognition, within the target region. Megvii cannot unilaterally enable or use these features or independently obtain any information regarding the use or maintenance of these features by interested parties. Whether and how to enable, deploy, use, or terminate these features is at the sole discretion of the interested parties. As a prerequisite, Megvii requires interested parties to, and interested parties undertake relevant commitments to, strictly abide by applicable laws and regulations in their use and maintenance of these features, completely fulfill their valid agreements, declarations, and commitments with and to specific and non-specific third parties, respect generally accepted social ethics and morals, provide necessary notifications to relevant users, governmental agencies, and other third parties, and obtain and retain all necessary consents, licenses, and authorizations, so as to ensure that the use and maintenance of these features by interested parties do not infringe on the legitimate rights and interests of third parties. In the development of these features and other products, Megvii strictly complies with relevant laws and regulations, thoroughly implements the principles of personal information protection, and follows the Artificial Intelligence Application Guidelines published by Megvii.

To avoid ambiguity, Megvii does not and shall not bear any legal responsibility caused by the interested parties in their use and maintenance of these functions due to non-Megvii's fault, including but not limited to claims, losses, obligations, costs, fees, penalties, injunctions, rulings, and other adverse consequences. If any laws or regulations promulgated by any government agency or any valid agreement, declaration, or other such arrangement entered into between interested parties and any specific or non-specific third party materially impact the legal compliance of these features or Megvii's ability to provide these features in full or in part, Megvii retains the right to unilaterally cease providing these features without bearing any legal responsibilities to the extent allowed by law.