TD-A310-MTC-E

Mini NVMS Server



Based on the conception of “All-in-One”, A310-MTC-E is a management server specially designed and developed for security surveillance application. Its software is installed before delivery and combines management, video preview and intelligent applications. Due to its low cost, simple deployment, powerful performance and high reliability, it can meet the requirements of the medium and small-sized security systems.

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TD-A310-MTC-E Mini NVMS Server

Features

Device Access

- Supports TVT private protocol, ONVIF protocol, standard RTSP, SDK
- Supports adding devices by manually entering IP address, domain name or IP range, by auto search, or by auto report
- Setting the network of the devices before quick adding them

Resource Management

- Supports channel (or camera) group management and device area management
- Supports centralized management of decoding devices, encoding devices and platform services

Device Configuration

- Supports the basic configuration and user management of the devices
- Supports the date, time and time zone, network, email and DDNS configuration of the devices
- Supports getting the information of the device's HDDs
- Supports multi-OSD setup of one channel
- Supports the camera's ROI, video mask and motion detection settings
- Supports smart event settings
- Supports the camera's resolution, frame rate, VBR/CBR, image quality and bitrate settings
- Supports the camera's brightness, contrast, saturation, hue, AZ settings, etc.
- The parameters of multiple devices can be set at one time
- Supports configuring record plan for storage devices

Group Management

- Supports binding devices and people group; The personal information of the group will automatically transfer to the device database and then these people will be given access permission.
- Supports batch adding and importing face pictures; people attribution information configurable
- Supports the similarity setting of face search
- Supports application scenes, face capture source and face capture schedule settings
- Supports vehicle registration to allow or block list
- Supports personal information registration to person list or block list

User Management

- Supports multi-user talk
- Supports user MAC address binding
- Supports user lock
- Supports different users and permission
- Supports permission based on resources and operation
- Permission can be assigned to each channel (or camera) of the device

Live View

- Supports multi-screen display mode:
  Supports 1/2/3/4/6/8/9/10/13/16/17/21/25/33/36 standard screen display mode
  Supports 2/4/6/7/9/12/16/24/36 widescreen display mode
- Supports customized screen display mode
- Supports corridor mode
- Supports adding fisheye and panoramic cameras
- Supports channel group/view plan auto-switch
- Supports stream self-adaption and one-key stream switch
- Supports multi-monitor display
- Supports instant playback
- Supports decoding with hardware
- Supports device's smart area and result display
- Supports smart view mode

Two-way Talk and Broadcast

- Supports remote listening
- Supports two-way talk
- Supports 8K or 16K audio sampling rate
- Supports multiply audio formats: G.711 a-law, G.711 u-law
- Supports voice broadcast and audio file customization

Snapshots

- Supports snapshots in the live view mode and playback mode
- Supports triggering camera snapshot

PTZ Control

- PTZ remote control, including preset, track and cruise calling and settings
- Supports zoom in/out and focus+/-
- Supports PTZ protocol configuration
- Supports 3D positioning control (the target can be quickly positioned and captured by box selection

Record Playback and Backup

- Supports multi-channel simultaneous and asynchronous playback
- Supports multiple record source playback
- Supports multi-window playback
- Supports playback by channel, time slice, time, tag and event search
- Supports playback by frame, dragging the progress bar, fast forward or slow speed
- Supports record backup: manual backup, backup by channel, time, tag and event search; supports cutting records and backup in the playback interface
- Supports backing up recorded files of DVR/NVR to the USB flash drive inserted into the Mini Server
- Supports remotely backing up recorded files of NVR to the USB flash drive inserted into the NVR via the Mini NVMS Server
- Supports pre-alarm/post-alarm recording and record expiration time settings
- Supports smart playback by face or plate number
- Supports image search

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Alarm

- Supports multiple alarm types: Motion alarm, sensor alarm, smart event linkage alarm, line crossing counting linkage alarm, face match linkage alarm, etc.
- Supports multiple alarm linkages: message pop-up, preview, audio, decoding on TV Wall, recording, snapshot, Email, alarm out and so on
- Supports arming or disarming.
- Supports SOP (alarm handling process) configuration
- Supports alarm information export by time period
- Supports manual alarm output
- Supports alarm task settings

Decoding On TV Wall

- Supports working with decoders or decoding matrix to control multiple video walls
- Supports12MP/ 8MP/5MP/4MP/3MP/1080P/720P
- Supports decoding on TV wall in the audio format of G.711A, G.711U
- Support live view and playback on TV wall
- Supports 1/4/9/16/25/36 screen mode
- Supports window merging and splitting, opening window and roaming
- Supports multiple splicing modes: 1x1, 1x2, 2x1, 2x2, ….10x10
- Supports picture-in-picture mode and roaming mode
- Up to 999 plans configurable
- Supports channel group and plan sequence view
- Plan task configurable
- Supports TV Wall task setting
- Supports TV Wall backup and recovery settings
- Supports triggering decoding on TV wall; customized alarm window (unlimited)
- Supports notification for node offline

Electronic Map

- Supports Google maps and picture maps. The picture map supports JPG, BMP, PNG and TIF formats
- Supports multi-level maps; adding, modifying, moving, deleting hot spots (monitoring points, sensor)
- Supports layer edition and display as well as self-defined layer
- Supports alarm linkage, like icon flickering, video pop-up
- Video preview and E-map monitoring

Data Dashboard

- Self-defining the desired display modules, including video
- Window, face comparison, body temperature measurement, E-map, smart snapshot, traffic flow statistics and remaining parking space

Search

- Supports image search and playback by face image (captured face image or uploaded face picture) and all searched face images can be viewed via the list or track on the E-map
- Supports face comparison result search and export
- Supports license plate comparison result search and export
- The captured face/human body/motor vehicle/non-motor vehicle images can be searched and exported

Face Attendance

- Attendance time configurable
- Supports displaying the employee's photo and the compared time on the right panel after successful comparison
- Supports multi-screen display mode (1/4/9/16); the face attendance video can be projected onto a sub-screen
- The attendance record can be viewed and filtered by day, week, month, working day/ non-working day/late/leaving early/overtime working/normal working/check-in /no check-in
- Supports displaying attendance status and overtime working status in the form of a list, which can be exported to an Excel

Face Greeting

- Supports self-defining the style and other configuration items of the greeting interface
- Real-time visitor information display on the client
- The VIP visitor 's photo will be shown on the pop-up window of the sub-screen and the corresponding audio will be broadcast simultaneously
- Single visitor loop play time can be configured in seconds
- Greeting pop-up window quantity, height and duration configurable
- Support visitor access records search

Line Crossing Counting

- Supports the threshold settings of people/motor vehicle/non-motor vehicle
- Supports daily, monthly people/motor-vehicle/non motor vehicle flow display by chart
- Supports historical people/motor vehicle/non-motor vehicle counting displayed in a histogram or curve graph and exported to an Excel
- Supports single/multi-channel real-time statistics and daily/monthly/yearly statistics via E-map
- Historical data searched by single/multi-channel, time period and line crossing and exported to a curve graph or histogram, or an Excel

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Parking Lot Management

- ANPR camera access
- Total/remaining space display
- Barrier gate control, manual/auto opening
- Historical vehicle entering or exiting information search and export
- Adding, modifying and deleting vehicle information and their parking permission
- Entrance/exit lane configuration
- Overstaying parking search and self-defining overstaying threshold
- Block list management (adding, modifying and searching vehicles to /in the block list)
- Supports statistics of vehicles entering, exiting and staying in the parking lot and these statistical data can be exported

Others

- Supports keyboard control
- Supports overload protection
- Supports operation and maintenance management:
- Operating, system and alarm logs can be searched and exported by time, type and user

Body Temperature Measurement

- Human temperature and mask status real-time view
- Record search by filtering conditions
- Recent seven-day statistics and statistical display
- Temperature exception pop-up window, information editable (including whether to go to the affected area, name, phone number, ID number, address, etc.)
- The record can be searched according to time range, temperature range, whether to go to the affected area, processing status and key words, and it also can be exported to an Excel
- Historical statistics: curve chart, bar graph and Excel can be exported and the data of each time period can be displayed.
- Supports a lot of alarm linkages based on over temperature people detection
- Supports TVT thermal camera temperature measurement device access
- Supports high temperature and low temperature threshold settings

Industrial Temperature Measurement

- Real-time video preview of security thermal cameras
- Real-time display of point/line/area temperature
- Supports temperature rule settings and real-time display of temperature curve chart
- All temperature data can be searched and exported as needed

Specifications

Model		TD-A310-MTC-E
System	CPU	Intel N95
	Memory	DDR4，8GB
	Graphics Card	Integrated Graphics，UHD Graphics
	Operation System	Linux
]Software	Software	NVMS standard (custom)
	Decoding Capability	8CH 8MP or 12CH 5MP or 15CH 4MP or 24CH 1080P or 35CH 720P or 36CH D1 (or lower)
	Max. Number of Channel Access	256CH
	Max. Number of Device Access	64 devices
	Max. Decoding Output Number	32
	Max. Number of Manageable Transfer Servers	0
	Max. Number of Manageable Storage Servers	0
	Max. Number of Channel Access of Third-party protocol	256CH
	Max. Number of Device Access of Third-party protocol	64
	Max. Channel Number of Simultaneous Preview	256 (for one client/user)
	Max. Channel Number of	16 (for one client/user)

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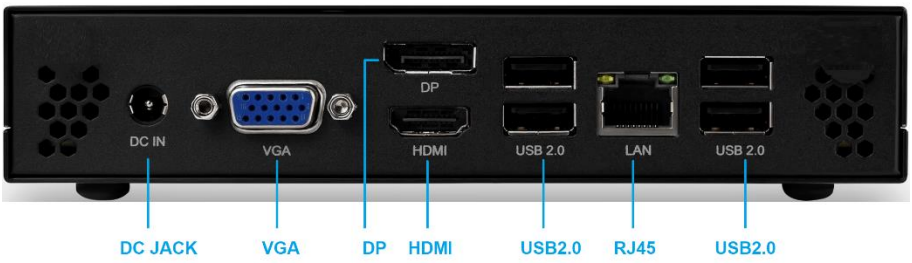
	Simultaneous Playback	
	Max. Number of Views	Up to 64 view plans can be created
	Max. Number of Channel Access of Single Transfer Service	256CH
	Max. Number of Device Access of Single Transfer Service	64DVRs/NVRs or 64 IPCs
	Max. Outgoing bandwidth	100Mbps
	Max. User Access	Max. 64 users
	Max. Online Users	5 users preview simultaneously
	AI Capability	Support the integrated management of face detection IPCs, face match servers, face recognition terminals, face match NVRs，ANPR cameras
		Support face detection, image search by face image, track playback, allow list and block list alarm as well as stranger alarm
		Support face attendance, face greeting, people counting, parking lot management, temperature measurement
	Vehicle Database	A maximum of 10000 license plates can be registered
	Access	Support local GUI access; external mouse, keyboard and monitor; multi-monitor display
	Protocol	Private protocol, SDK, ONVIF, RTSP,
	Live View	Support multi-screen display mode; support customized screen display mode, corridor mode, channel group auto-switch, stream self-adaption, manual record and snapshot
	Record Playback	Support search record by time period, time slice, time and tag; support synchronous or asynchronous playback; support record backup
	Alarm Linkage	Support triggering message popup, audio, live view window, recording with tag, decoding on TV Wall
	PTZ Control	zoom in, zoom out, preset, cruise, 3D control
HDD	System HDD	256GB M.2SSD
	Data HDD	NO
Video &Audio	HDMI Output	1CH HDMI @ 4K
	VGA Output	1 VGA @ 1080P
	DP Output	No function
	Audio Output	1CH Line out
	Two-way Audio	1CH MIC IN
External Interface	Ethernet Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
	USB Interface	7 USB ports: 2×USB 3.0 Type-A, 1× USB3.0 Type-C, 4×USB2.0
Others	Power	DC 12V/3A
	Power Consumption	≤24W
	Working Temperature	0℃~40℃
	Storing Temperature	-20℃~70℃
	Working Humidity	10%--90% (non-condensing)
	Dimensions	168mm(W)×123.1mm(H)×33mm(D)
	Weight	≈0.67Kg

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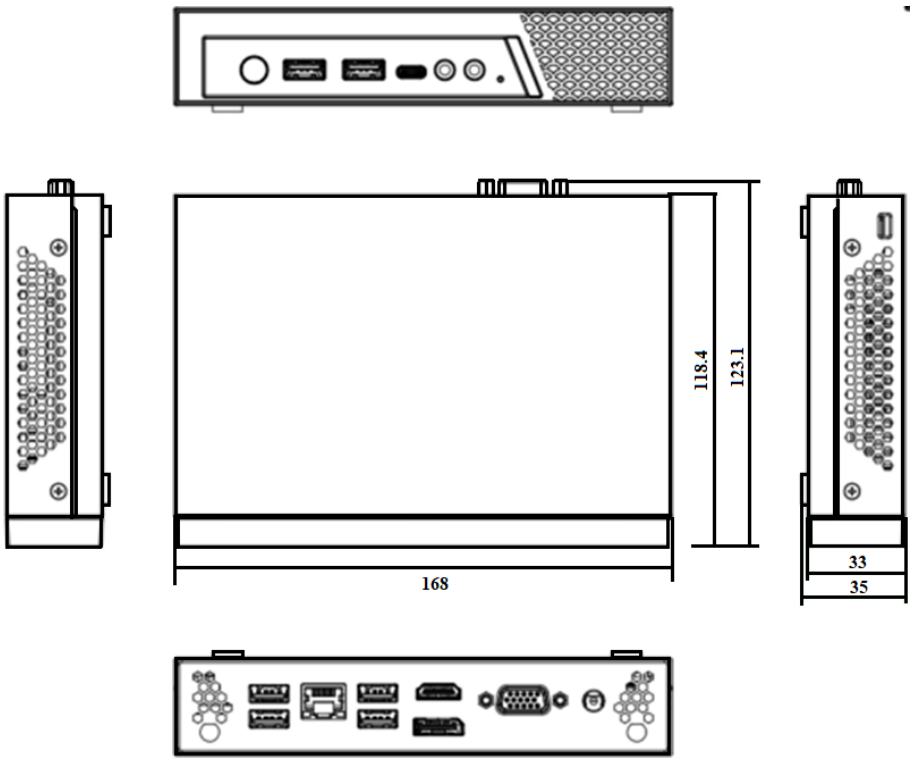
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Interfaces



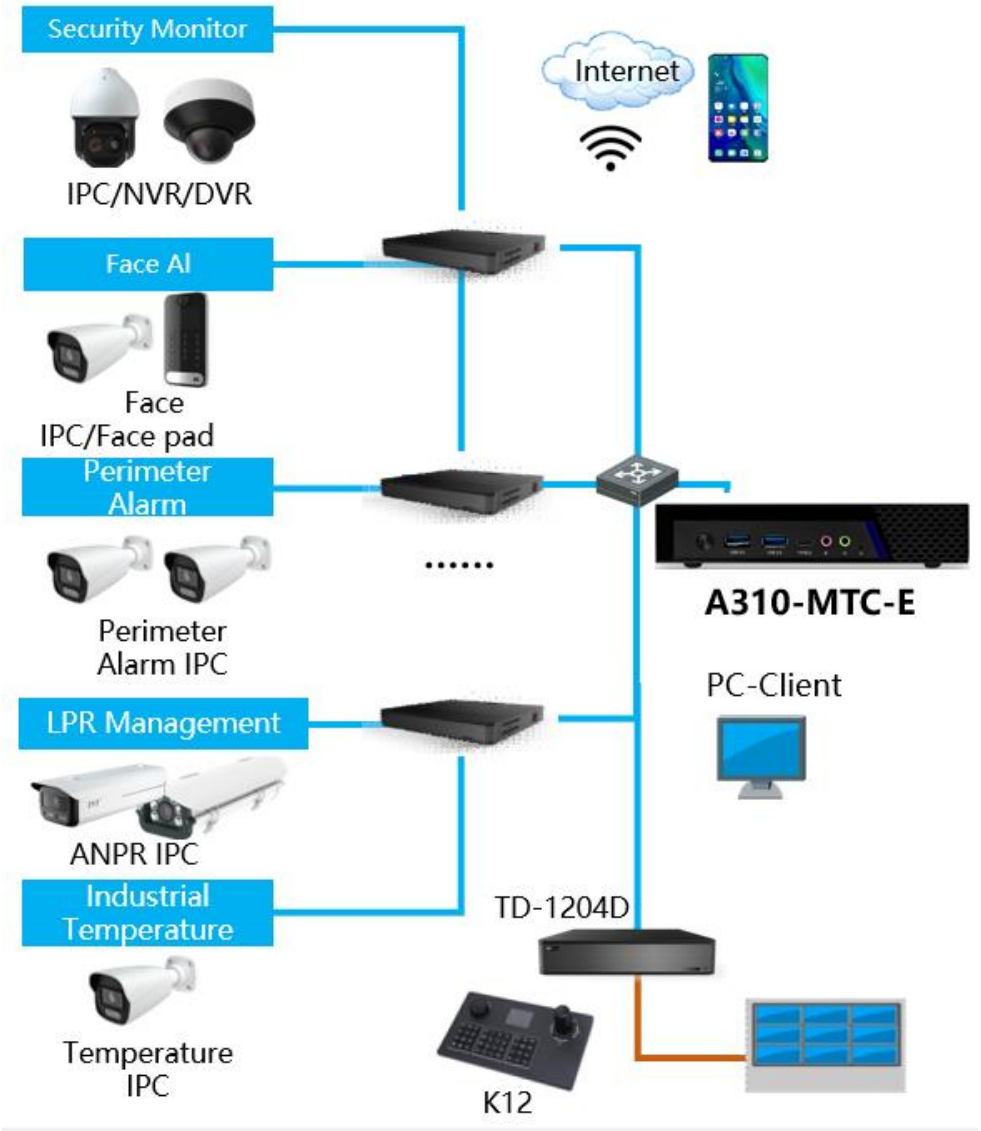


Dimensions



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Typical Application



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