

# UNV Unicorn DatasheetV2.2-EN **Unicorn**



### **Overview**

Unicorn is an integrated surveillance platform with management, storage, decoding, and forwarding functions. It can connect and manage various devices including IPC, NVR, smart device, smart recognition access control device, entrance & exit device, cloud device, decoder, network keyboard, access control, alarm control, and expansion disk enclosure. VMS-B200-A16@R is easy to deploy, scalable and stable, and it is widely applicable in LAN-based applications such as parks, buildings, campuses, hotels, venues, and WAN-based applications such as networked supermarkets.

### **Features**

- Powerful connection: 1,000 devices, 2000 channels in stand-alone mode; 2,000 devices, 4,000 channels in primary/replica mode
- Unified management: IPC, NVR, smart device, smart recognition access control device, entrance & exit device, cloud device, decoder, network keyboard, access control, alarm control, expansion disk enclosure, etc.
- Huge storage: Max 16 SATA HDDs, and two 16-slot disk enclosures via miniSAS interfaces; expandable up to 48 disks for recording storage
- Powerful decoding: Outputs 16x1080P videos to three screens (2xHDMI, 1xVGA)
- · High bandwidths: 512Mbps incoming bandwidth, 512Mbps storage bandwidth, and 384Mbps forwarding bandwidth
- Strong compatibility: Standard ONVIF, VSS, VIID, and RTSP
- High scalability: Primary/replica expansion for enhanced forwarding performance and storage capacity
- Rich functionality: Basic functions including live view, playback, sequence, view, video wall, e-map, two-way audio, broadcast, alarm linkage; smart functions including perimeter protection, person detection, person recognition, LPR, entrance & exit management, access control, attendance management, mixed-traffic detection, people counting, and data search
- Flexible access: PC client (C/S and B/S), mobile client (iOS and Android)
- Stability: Embedded Linux OS, dual-BIOS, redundant power, and 1+1 hot standby
- Security and reliability: 802.1x authentication, ARP protection, HTTPS, SSH enabling/disabling, network fault tolerance, load balancing, multi-IP configuration, secure password, and IP address filtering



- Operation and maintenance: Provide a comprehensive management dashboard, server status, device/channel online status, HDD status, online users, bandwidth usage, packet loss rate, log search, etc.
- Abundant interfaces: 4 Gigabit copper interfaces, 2 Gigabit optical interfaces, 24 alarm inputs, 8 alarm outputs, 4 USB3.0 interfaces, 2 HDMI interfaces, and 1 VGA interface

### **Specifications**

Model	Unicorn
Live view	
Live view	Play live video by channel or view.  1/3/4/5/6/7/8/9/10/13/16/17/25/32/36/64 image display on single screen. Custom window layout. 3/7 window layout in corridor mode; Max 3 auxiliary monitors; Supports view, sequence, snapshot, digital zoom, audio control, PTZ control, patrol, fisheye, 5ePTZ, panoramic linkage, multi-sensor mode, instant playback, recording, watermark, etc.
Playback	mata sense, metal preparati, reserving, metal main, etc.
Playback	Play recordings saved on VMS or NVR.  Playback types: normal recording, tagged recording, locked recording, smart recording playback, event recording, VCA recording.Normal recording playback supports  1/3/4/5/6/7/8/9/10/13/16 window layout.Max 16-channel synchronous playback on a single client (depending on NVR's stream output performance).Playback speeds: -256x, -128x, -64x, -32x, -16x, -8x, -4x, -2x, -1x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x, 128x, 256x (depending on NVR's stream output performance)Supports snapshot, digital zoom, clipping, audio control, locking, tagging, rewinding/forwarding 30 seconds, zooming in/out on the timeline, playback by frame, synchronous playback, recording preview on the timeline, watermark, etc.;Download recordings by file, time, tag, lock.
E-map	
E-map	Supports local and online (AMAP) maps; map files support jpg, png, and bmp formats.  Add, delete, edit, and search maps, hot spots (video channel, alarm input, access control) and hot zones. Allows user to choose or customize hot spot icons. Live view (max 4 channels) and playback (max 16 channels) on map. Blinking alarm on map; view/clear alarms. 800MB storage space for map resources, max 7 layers of maps.
Video wall	
Video wall	Supports multiple models of decoding devices to create video wall.  Allows user to add, delete, edit, search video wall; editable information includes video wall name, size, resolution, bind/unbind decoding channels. Live view, playback, and sequence display on video wall. Save settings as a scene for quick restoration of settings when needed. Play signal source on video wall, virtual LED configuration, screen on/off control.
Alarm configuration	



Alarm subscription, alarm level customization, alarm time template, email contacts management (BS client) Alarm plan configure diam plan configure alarm records, history alarm records search restitime alarm records, history alarm records support search by alarm source, time, alarm status, alarm time, alarm level.  Audio  Two-way audio with a device. Play live video from the device.Start/stop two-way audio, adjust sound volume of MIC and speaker.Shows two-way audio status in the status bar.  Add, delete broadcast group members, start/stop broadcast. Chose one audio channel from the broadcast group to play stream audio.Adjust sound volume of local input and output.  Access control management Add, delete broadcast group members, start/stop broadcast. Chose one audio channel from the broadcast group to play stream audio.Adjust sound volume of local input and output.  Access control management Sign in/out visitors, configure permission group/blocklist. Edit visitor information, view status, prest/export.  Access control monitoring Blocklist alarm records Search entry/exit records, view status, reset/export.  Attendance management Search attendance statistics by time range, department, name, person ID; export search results.  Face detection  Add, delete, edit, and search face libraries; max. 128 face libraries.  Add, delete, edit, and search face libraries; max. 128 face libraries.  Add, delete, edit, and search face libraries; max. 128 face libraries.  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate numbe		
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Face monitoring management  Monitoring type: match alarm, not match alarm.  (Alarm records can be searched in the data search module)  View live video of monitoring cameras, snapshots and comparison records.  (Passing people records can be searched in the data search module).  Checkpoint monitoring  Vehicle library management for checkpoint  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control.  (Alarm records can be searched in the data search module)  Checkpoint realtime  wonitoring  View live video of monitoring cameras.  (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.	Face library management	Add, delete, assign, remove, import, export faces in batches, search faces by name, ID card
Face monitoring management  (Alarm records can be searched in the data search module)  View live video of monitoring cameras, snapshots and comparison records. (Passing people records can be searched in the data search module).  Checkpoint monitoring  Vehicle library management for checkpoint  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control. (Alarm records can be searched in the data search module)  Checkpoint realtime  Wiew live video of monitoring cameras. (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.		number, gender, etc.
(Alarm records can be searched in the data search module)  Face realtime monitoring  View live video of monitoring cameras, snapshots and comparison records. (Passing people records can be searched in the data search module).  Checkpoint monitoring  Vehicle library management for checkpoint  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control. (Alarm records can be searched in the data search module)  Checkpoint realtime  wonitoring  View live video of monitoring cameras. (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.	Face monitoring management	Monitoring type: match alarm, not match alarm.
Face realtime monitoring  (Passing people records can be searched in the data search module).  Checkpoint monitoring  Vehicle library management for checkpoint  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control.  (Alarm records can be searched in the data search module)  Checkpoint realtime  Monitoring  View live video of monitoring cameras.  (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.	race monitoring management	(Alarm records can be searched in the data search module)
Checkpoint monitoring  Vehicle library management for checkpoint  Vehicle monitoring  Vehicle monitoring  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control.  (Alarm records can be searched in the data search module)  Checkpoint realtime  monitoring  View live video of monitoring cameras.  (Passing vehicle records can be searched in data search module).  Statistical resource  Supports filtering areas and channels by keyword.	Face realtime monitoring	View live video of monitoring cameras, snapshots and comparison records.
Vehicle library management for checkpoint  Add, delete, edit, search vehicle library information, max 16 vehicle libraries.  Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control.  (Alarm records can be searched in the data search module)  Checkpoint realtime  monitoring  View live video of monitoring cameras.  (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.	race realtime monitoring	(Passing people records can be searched in the data search module).
Vehicle library management for checkpoint  Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control.  (Alarm records can be searched in the data search module)  Checkpoint realtime  Wiew live video of monitoring cameras.  (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.	Checkpoint monitoring	
Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control.  (Alarm records can be searched in the data search module)  Checkpoint realtime  Wiew live video of monitoring cameras.  (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.	Vehicle library management	Add, delete, edit, search vehicle library information, max 16 vehicle libraries.
number, plate type, vehicle color, plate color, etc.  Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency control.  (Alarm records can be searched in the data search module)  Checkpoint realtime Wiew live video of monitoring cameras.  (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.		Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate
Vehicle monitoring control.  (Alarm records can be searched in the data search module)  Checkpoint realtime View live video of monitoring cameras.  monitoring (Passing vehicle records can be searched in data search module).  People counting  Statistical resource Supports filtering areas and channels by keyword.	тог спескроппс	number, plate type, vehicle color, plate color, etc.
(Alarm records can be searched in the data search module)  Checkpoint realtime View live video of monitoring cameras.  monitoring (Passing vehicle records can be searched in data search module).  People counting  Statistical resource Supports filtering areas and channels by keyword.		Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation, emergency
Checkpoint realtime View live video of monitoring cameras. monitoring (Passing vehicle records can be searched in data search module).  People counting Statistical resource Supports filtering areas and channels by keyword.	Vehicle monitoring	control.
monitoring (Passing vehicle records can be searched in data search module).  People counting  Statistical resource  Supports filtering areas and channels by keyword.		(Alarm records can be searched in the data search module)
People counting  Statistical resource  Supports filtering areas and channels by keyword.	Checkpoint realtime	View live video of monitoring cameras.
Statistical resource Supports filtering areas and channels by keyword.	monitoring	(Passing vehicle records can be searched in data search module).
Supports filtering areas and channels by keyword.	People counting	
management	Statistical resource	Supports filtering areas and channels by keyword.
	management	,



People counting area	Add, edit, delete people counting areas; max 8 detection areas, each area includes up to 32 channels.
	Configure alarms, area name, push cycle, people present alarm thresholds (critical/major/minor), and channels.
Crowd density detection area	Add, edit, delete crowd density monitoring areas, max 16 areas, each area allows one video
	channel.
	Configure alarms, area name, push cycle, crowd density alarm thresholds
Area provious	(critical/major/minor), and channels.
Area preview	Double-click a channel in the people counting area to view the live video in the 4-window area.  Displays counting results (people in/out/staying/how many more allowed) and access status on
Realtime statistics	the right side and updates in real time.
	Crowd density (current number of people, how many more allowed), area status.
	Count by minute/hour/day/month.
Reports and statistics	Support line chart and column chart display, and display entering/leaving/staying statistics
Reports and statistics	separately or in combination. Display entering/leaving/staying statistics of a certain time period
	or of a channel, export counting statistics.
Mixed-traffic detection	
	Real-time monitoring and snapshot record display for motor vehicle/non-motor
	vehicle/pedestrian.
	Face detection records: search by channel, time, gender, age, etc.Pedestrian detection records:
Mixed traffic datastics	search by channel, time, gender, age, upper garment style/color, lower garment style/color,
Mixed-traffic detection	shoes, and backpack style.Non-motor vehicle detection records: search by channel, time, vehicle
	type, driving direction, speed; associated facial feature information. Motor vehicle detection
	records: search by channel, time, plate number, vehicle type, plate color, plate type, color logo,
	driving direction, speed, and vehicle color.
Behavior search	
	Search VCA alarm snapshots and recordings by criteria including time range and alarm type
Device data search	(cross line detection, intrusion detection)
and to	Search alarm snapshots and recordings by all/pedestrians/non-motor vehicles/motor vehicles,
VMS data search	time range, and alarm type (cross line detection, intrusion detection, enter area, leave area).
Data search	
	Search by attribute, event, and by image:
	1. Search by attribute:(1) Search conditions: channel name, snapshot time, gender, age, etc;
	search records support search by image.(2) View alarm image and recording, object features.(3)
Faranash	Data export.2. Search by event:(1) Search conditions: monitoring type (match alarm, not match
Face search	alarm), alarm source, alarm time, name, ID number, alarm source, gender, etc.(2) View alarm
	image and recording, object features.(3) Data export.3. Search by image: Search people
	pass-through records on NVR and search for an image in a face library on VMS using a face library
	image (VMS) or a local uploaded face image; view alarm image and recording.
	1. Search conditions: channel name, snapshot time, gender, age, upper garment style/color,
Pedestrian search	lower garment style/color, shoes, backpack style.
	View alarm images and object features.Data export.



Motor vehicle search	Search by attribute and event:
	1. Search by attribute:(1) Search conditions: channel name, snapshot time, plate number, vehicle
	type, plate color, plate type, vehicle logo, driving direction, speed, vehicle color.(2) View alarm
	image and recording, object features.(3) Data export.2. Search by event:(1) Search conditions:
	monitoring type (match alarm, not match alarm), alarm source, alarm time, plate number, plate
	color, monitoring cause, vehicle color.(2) View alarm image and recording, object features.(3)
	Data export.
Non-motor vehicle search	Search conditions: channel name, snapshot time, vehicle type, driving direction, speed.
Non-motor venicle search	View alarm images and object features.Data export.
Recording backup	
Automatic hackup	Supports automatic backup: Add, edit, delete, view backup task schedules.
Automatic backup	Manually stop/resume backup.
Local backup	Local backup: Search, preview, back up recordings.
Local backup	View partitions of storage media, create folders, format. View backup task progress.
O and M statistics	
Log search	View, acknowledge alarm logs, view operation logs
Attendance management	
Attendance rules	Set automatic attendance calculation time.
	Time period setting, shifts management, staff schedule management
	1. Period settings:(1) Normal period (set work hours start and end times, valid sign in and out
Staff schedule	times, attendance rules). (2) Flexible period (set calculation method, daily work duration, time to
	switch to the next attendance day).2. Shifts management: Set and view shifts information.3. Staff
	schedule management: assign shifts, schedule or cancel shifts.
	Leave, resign-in, and resign-in records search
	1. Create, edit, delete leave information, choose leave types (causal leave, sick leave, paternity
Attendance handling	leave, maternity leave, child care leave, annual leave, family leave, funeral leave)/out for
	business.2. Resign-in and resign-out.3. Search resign-in and out records by person/time/type;
	edit or delete resign-in and out records.
	Original data, attendance details, attendance summary
	1. Original data: View original data of entry and exit; filter data by department/person/time/body
A.L., d.,	temperature; export data.2. Attendance details: View shifts information, sign-in and out times,
Attendance statistics	attendance status, attendance duration, absence duration; filter data by
	department/person/time/attendance status; export data.3. Attendance summary: View
	attendance result, attendance details; filter data by department/person/time; export data.
Storage performance	
	16 SATA interfaces, hot-swappable HDD, max 16TB each.
Storago porformana	Supports RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60Supports 2 expansion disk
Storage performance	enclosures, max 256TB with 32 8TB HDDs.DEU1008 disk enclosure: Up to 8 SATA HDDs, each
	with up to 8TBDEU1016 disk enclosure: Up to 16 SATA HDDs, each with up to 8TB
Management performance	
Total device management	1000
capability	1000



Total channel management capability	2000
Cloud device management capability	256
GB/T28181 device management capability	100
Onvif device management capability	1000
Smart encoding device management capability	100
Access control device management capability	128
Decoding device management capability	30
EZAgent management capability	20
Network keyboard management capability	50
Network disk	8
Security gateway device management capability	128
User management capability	1000
Concurrent online user management capability	300 (max 64 remote online users (connected via P2P, including but not limited to online users on mobile clients))
Replica server management capability	10 (if replica servers≥4, the primary server only engages in management).
Stream performance	
Incoming bandwidth	512Mbps
Outgoing bandwidth	384Mbps
Storage stream bandwidth	512Mbps
Number of recording storage streams	256 channels (IPSAN storage+normal storage+backup storage, total 256 channels. IPSAN storage specification is 150 channels)
Image performance	
Number of smart image storage streams	256 channels
Image push performance	Can receive 100 vehicle or face images per second
Alarm performance	
Alarm receiving and forwarding performance	100 alarms per second
Central playback performance	

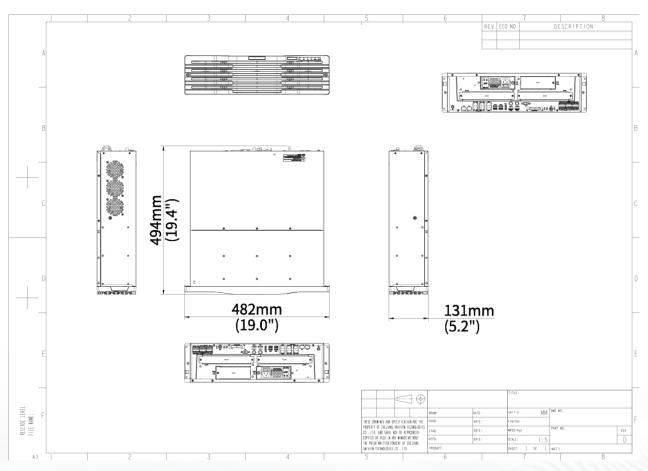


Number of central playback channels	24 channels
Central decoding capability	
Decoding Capability	3 ports, total 4-ch 4K@30, 16-ch 1080p@30, 36-ch 720p@30, 64-ch D1@30
Decoding resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/960H/D1/2CIF/QCIF
Built-in decoding output	2xHDMI, 1xVGA; supports simultaneous 4K output via dual HDMI ports (VGA will be unavailable in
	this case)
Data storage performance	
Max storage for alarm logs	200,000
Max storage for operation logs	200,000
Max storage for face snapshot records	3,000,000
Max storage for face alarm records	3,000,000
Max storage for passing vehicles	3,000,000
Max storage for structured vehicle/pedestrian records	3,000,000
Max storage for access control records	3,000,000
Operating temperature	
Operating environment	-10°C to 55°C
temperature	-10°C to 55°C
Operating humidity	
Operating environment humidity	10% to 90% (noncondensing)
Operating system	
Operating system	Linux
RAM	
RAM	4GB
HDD	
HDD	16 (No HDD is included at delivery)
Interface	
USB	4*USB3.0
VGA interface	1
HDMI interface	2
RS485	1
RS232	1
Alarm	24 in, 8 out
Storage expansion interface	2*miniSAS
Network interface	
Network interface	4*GE copper interface + 2*GE optical interface
Power	

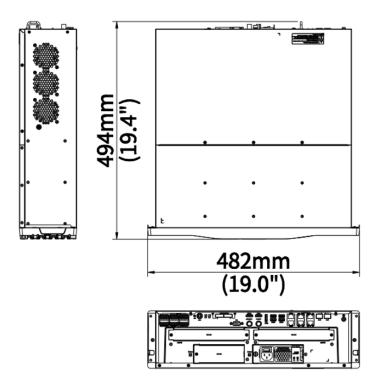


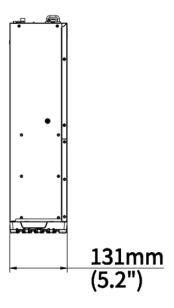
12V DC output	1
Primary power input	Standard: 1 power module, optional: dual power modules, hot-pluggable
Power	100V to 240V AC
	Supports dual-power redundancy
Expansion power module slot	Standard: 1 x 300W power module, expansion: 1+1 redundancy
(PSU1)	(different from B800)
Total power consumption	
Total namer consumption	<50W (without HDD)
Total power consumption	≤165W (with HDD)
Physical size	
Dimensions (with front panel)	3U, fits in 19" standard cabinet
(H x D x W)	130.5mm×492mm×481.6mm(remove front panel for HDD installation)
Weight	
Weight	≤ 10.0 kg (not including cards, power module, HDD)
Client computer requirements	
Client computer requirements	64-bit version:
	OS: Microsoft Windows 7/Windows 8/Windows 10, 64-bitCPU: Intel Core i5 3.1 GHz or higher RAM:
	4GB or higher32-bit version:OS: Microsoft Windows 7/Windows 8/Windows10, 32/64-bitCPU: Intel
	Pentium IV 3.0 GHz or higher, 4 Cores, 3.0GHz is recommendedRAM: 2GB or higherNote: 64-bit
	operating system needs to be compatible with the 32-bit version software

## **Dimensions**

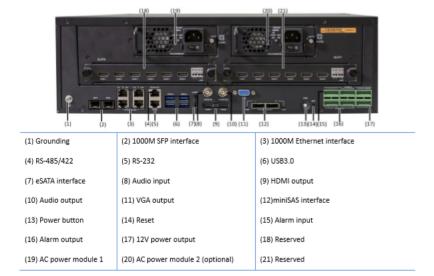








#### **Rear Panel**



#### **Zhejiang Uniview Technologies Co., Ltd.**



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<sup>\*</sup>Product specifications and availability are subject to change without notice.

<sup>\*</sup>Despite our best efforts, technical or typographical errors may exist in this document.

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