

# 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**

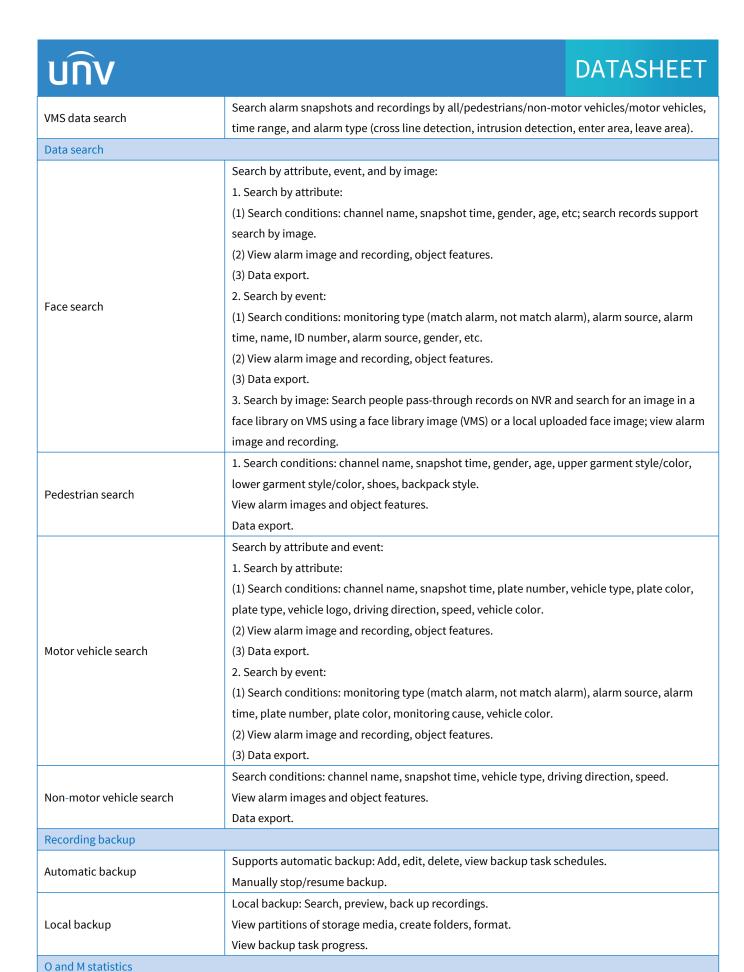
Model	Unicorn
Live view	
	Play live video by channel or view.
	1/3/4/5/6/7/8/9/10/13/16/17/25/32/36/64 image display on single screen.
	Custom window layout.
Live view	3/7 window layout in corridor mode;
	Max 3 auxiliary monitors;
	Supports view, sequence, snapshot, digital zoom, audio control, PTZ control, patrol, fisheye,
	5ePTZ, panoramic linkage, multi-sensor mode, instant playback, recording, watermark, etc.
Playback	
	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
Playback	performance).
Flayback	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	

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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	Tray signat source on video wall, virtual LLD configuration, screen on/on control.	
Alarm management	Alarm subscription, alarm level customization, alarm time template, email contacts management (BS client)  Alarm plan configuration: add/delete/edit/search/enable/disable alarm plan; configure alarm linkage actions: live view, goto preset, alarm output, alarm to video wall (BS client also supports recording, email, buzzer, and snapshot)  Alarm records search: realtime alarm records, history alarm records; history alarm records support search by alarm source, time, alarm status, alarm time, alarm level.	
Audio		
Two-way audio Broadcast	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. Choose one audio channel from the broadcast group to play stream audio.	
Dioducast	Adjust sound volume of local input and output.	
Access control management	-y	
Manual access control	Search doors, view status, open/close doors.	
Door entry/exit records	Search entry/exit records, view status, reset/export.	
Visitor info management	Sign in/out visitors, configure permission group/blocklist. Edit visitor information, view visitor status.	
Access control monitoring	Manage the blocklist library and use it for monitoring.	
Blocklist alarm records	Search, view status, reset/export.	
Attendance management	Search attendance statistics by time range, department, name, person ID; export search results.	
Face detection		
Face library management	Add, delete, edit, and search face libraries; max. 128 face libraries.  Add, delete, assign, remove, import, export faces in batches, search faces by name, ID card number, gender, etc.	
Face monitoring management	Monitoring type: match alarm, not match alarm.  (Alarm records can be searched in the data search module)	



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- W	View live video of monitoring cameras, snapshots and comparison records.
Face realtime monitoring	(Passing people records can be searched in the data search module).
Checkpoint monitoring	
V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Add, delete, edit, search vehicle library information, max 16 vehicle libraries.
Vehicle library management for	Add, delete, assign, remove, import, and export vehicles in batches, search vehicles by plate
checkpoint	number, plate type, vehicle color, plate color, etc.
	Cause of monitoring: robbed vehicle, stolen vehicle, suspect vehicle, traffic violation,
Vehicle monitoring	emergency control.
	(Alarm records can be searched in the data search module)
Charles into a laine a manaita sina	View live video of monitoring cameras.
Checkpoint realtime monitoring	(Passing vehicle records can be searched in data search module).
People counting	
Statistical resource management	Supports filtering areas and channels by keyword.
	Add, edit, delete people counting areas; max 8 detection areas, each area includes up to 32
	channels.
People counting area	Configure alarms, area name, push cycle, people present alarm thresholds
	(critical/major/minor), and channels.
	Add, edit, delete crowd density monitoring areas, max 16 areas, each area allows one video
	channel.
Crowd density detection area	Configure alarms, area name, push cycle, crowd density alarm thresholds
	(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.
	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: search by channel, time, gender, age, upper garment style/color,
Mixed-traffic detection	lower garment style/color, 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	
Device data search	Search VCA alarm snapshots and recordings by criteria including time range and alarm type



View, acknowledge alarm logs, view operation logs

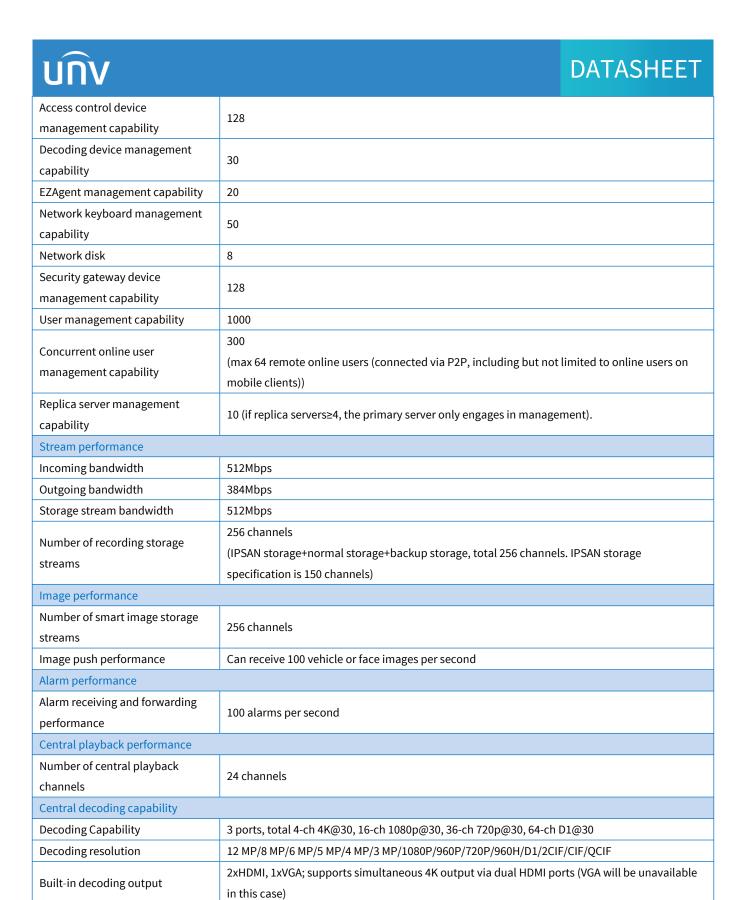
Log search

Attendance management





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 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	
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 temperature; export data.	
2. Attendance details: View shifts information, sign-in and out times, 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.	
16 SATA interfaces, hot-swappable HDD, max 16TB each.	
Supports RAID0, RAID1, RAID5, RAID10, RAID50, RAID60	
Supports 2 expansion disk enclosures, max 256TB with 32 8TB HDDs.	
DEU1008 disk enclosure: Up to 8 SATA HDDs, each with up to 8TB	
DEU1016 disk enclosure: Up to 16 SATA HDDs, each with up to 8TB	
1000	
1000	
2000	
050	
256	
100	
100	
1000	
1000	
100	
100	



Data storage performance

Max storage for alarm logs

records

Max storage for operation logs

Max storage for face snapshot

200,000

200,000

3,000,000

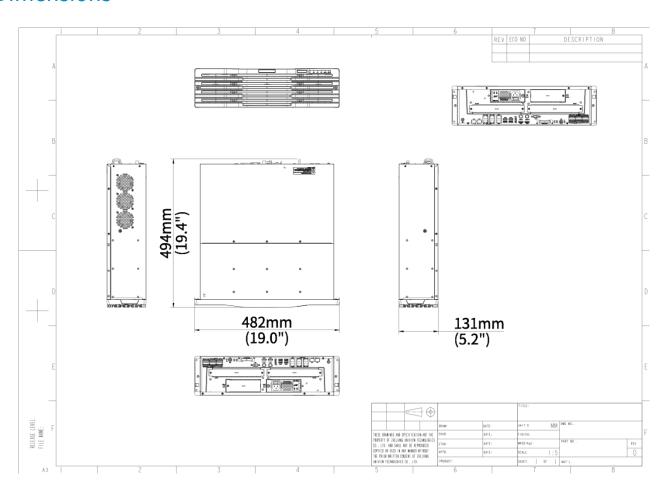
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Max storage for face alarm records	3,000,000			
Max storage for passing vehicles	3,000,000			
Max storage for structured	3 000 000			
vehicle/pedestrian records	3,000,000			
Max storage for access control	3,000,000			
records	3,000,000			
Operating temperature				
Operating environment	-10°C to 55°C			
temperature	-10-0 (0 35-0			
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-plu	ggable		
_	100V to 240V AC			
Power	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				
T	<50W (without HDD)			
Total power consumption	≤165W (with HDD)			
Physical size				
D: 1 / 101 f . 10 f .	3U, fits in 19" standard cabinet			
Dimensions (with front panel) (H x	130.5mm×492mm×481.6mm			
DxW)	(remove front panel for HDD installation)			
Weight				
Weight	≤ 10.0 kg (not including cards, power module, HDD)			

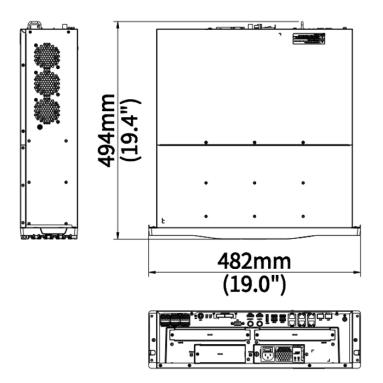


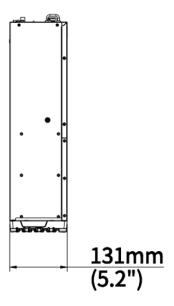
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Client computer requirements		
	64-bit version:	
Client computer requirements	OS: Microsoft Windows 7/Windows 8/Windows 10, 64-bit	
	CPU: Intel Core i5 3.1 GHz or higher	
	RAM: 4GB or higher	
	32-bit version:	
	OS: Microsoft Windows 7/Windows 8/Windows10, 32/64-bit	
	CPU: Intel Pentium IV 3.0 GHz or higher, 4 Cores, 3.0GHz is recommended	
	RAM: 2GB or higher	
	Note: 64-bit operating system needs to be compatible with the 32-bit version softwar	е

# **Dimensions**









# **Rear Panel**



(1) (2)	(3) (4)(5) (6) (7)(8) (9) (10)(11)	(12) (13)(14)(15) (16) (17)
(1) Grounding	(2) 1000M SFP interface	(3) 1000M Ethernet interface
(4) RS-485/422	(5) RS-232	(6) USB3.0
(7) eSATA interface	(8) Audio input	(9) HDMI output
(10) Audio output	(11) VGA output	(12)miniSAS interface
(13) Power button	(14) Reset	(15) Alarm input
(16) Alarm output	(17) 12V power output	(18) Reserved
(19) AC power module 1	(20) AC power module 2 (optional)	(21) Reserved



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