

# Unicorn

## Introduction

The Unicorn is a smart integrated surveillance platform with video input, storage, transfer and device management functions designed specifically for digital surveillance applications. Unicorn has adopted audio/video compression and decompression, embedded system, storage, network, and smart technologies and it is suitable for security surveillance in industries such as finance, public security, military, telecom, transportation, energy, and education.



## Key Features

- Embedded system design to ensure stable operation
- Support for redundant power, unique dual-OS design
- Hot-swappable HDD supporting RAID1 and RAID5
- 512M incoming bandwidth, 1000 device connections, up to 2000 channels of high-definition network videos
- Adaptive H.265 and H.264
- 4K resolution for preview, storage and playback
- Standard ONVIF
- Simultaneous output from 1×VGA and 2×HDMI (4K resolution)
- 16×SATA interfaces with two optional miniSAS interfaces; expandable to 48 disks with 288T storage
- 4×1000M Ethernet interfaces, 2×1000M SFP interfaces
- Network fault tolerance, multi-IP configuration
- Unified management of NVR, IPC, decoder, alarm host, access control host devices; support device configuration import/export
- Live view, playback, and sequence on video wall
- Two-way audio
- E-map
- Real-time alarm, alarm plan

- HTTPS/SSL, certificate creation and upload, 802.1x authentication, ARP protection
- 4×USB3.0
- Up to 1000 users
- B/S, C/S and mobile app clients
- Screen splicing, video decoding and display on video wall

## Specifications

Item		Unicorn
Decoding	Video	H.265, H.264
	Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/2CIF/CIF/QCIF
	Display on video wall	HDMI(×2) and VGA(×1) output; HDMI output supports 4K resolution
	Audio	G.711
Network bandwidth		512M incoming bandwidth, 384M forwarding bandwidth
HDD interface		16×SATA interfaces, expandable to 48 with totally 288T storage
External interface	Network	4×10M/100M/1000M Base-T adaptive Ethernet interfaces, 2×1000M SFP optical interfaces
	USB	4×USB3.0
	Serial	1×RS-232 (RJ45), 1×RS-485 (phoenix connector)
	Alarm input/output	24×alarm inputs, 8×alarm outputs
	Power output	12 V DC
	Audio	A pair of RCA audio input/output interfaces, support two-way audio
	Audio alarm	Buzzer
	Expansion	1×eSATA interface 2×miniSAS interfaces 2×decoding card interfaces
Others	Power supply	100-240 VAC (with power on/off switch)
	Dual-power redundancy	Support
	Power consumption	50W (not including HDD)
	Operating temperature	-10°C to 55°C (14°F to 131°F)
	Operating humidity	10% to 90% (noncondensing)
	Weight	≤ 10.0 Kg
	Dimensions (H×D×W)	Height: 3U, support mounting in standard 19" cabinet 130.5 mm × 477.1 mm × 481.6 mm (5.1"×18.8"×19") (including front panel)

## B/S Client Specifications

Function	Description
<b>Basic configuration</b>	
Organization management	Up to 10 levels
User management	Support user definition, user lock/unlock, validity period, and role definition Max number of users: 1000, max number of concurrent online users: 100
Device management	IPC, NVR, encoder(EC), decoder (DC, internal/external), network keyboard, access control, alarm host, and cloud devices Up to 1000 devices and 2000 channels (max. 1024 channels for cloud devices) Standard Onvif based connection to third-party devices
<b>Service configuration</b>	
Recording schedule	Recording schedule, time template, holiday schedule Up to 8 periods per day
Alarm configuration	Alarm plan, time template, contacts Alarm-triggered actions including recording, email and buzzer
<b>System configuration</b>	
Basic configuration	Basic device information, system time, holiday
HDD configuration	Hard disk management, capacity configuration, storage policy, disk array(RAID1, RAID5)
Network configuration	TCP/IP, EZCloud, DDNS, port, port mapping, email
Security	HTTPS/SSL, 802.1x, ARP protection
System maintenance	Restart, restore some/all factory default settings, configuration import/export, local upgrade, diagnostic info export
<b>Operation maintenance and statistics</b>	
Server statistics	Disk detection, network status, user status
Device statistics	Device status, channel status, recording status
Log query	Alarm logs, operation logs

## C/S Client Specifications

Function	Description
<b>Real-time monitoring</b>	
Play control	1/4/5/6/8/9/10/13/16/17/25/32/36/64 window display Corridor format Play on up to 3 auxiliary monitors
View management	Custom views Sequence
PTZ control	PTZ and shortcut, focus, preset, patrol, 3D positioning, IR control, wiper, heater, snow removal control. Note: Actual PTZ control actions may vary with capabilities of NVR, IPC and external PTZ.
Function and feature	Play by group, snapshot, digital zoom, recording, instant playback

Recording and playback	
Playback	NVR recording playback Synchronous/asynchronous playback of up to 64 channels of recordings Recording search by calendar MP4 recording format
Function and feature	Recording schedule, recording search by time/file/event, recording download, snapshot, digital zoom, playback at a variety of speeds (-16x to 16x), audio.
Alarm management	
Alarm type	Multiple types of service alarms and device alarms
Alarm plan	Support
Alarm triggered action	Alarm triggered actions including live view, alarm input/output, and preset Cross-device action triggering
Alarm records	View and acknowledge real-time alarms View, acknowledge and search alarm records
Video wall	
Video wall configuration	Up to 9×9 monitors
Video on wall	Play live and recorded video on video wall Corridor format Preview and playback for decoding channels

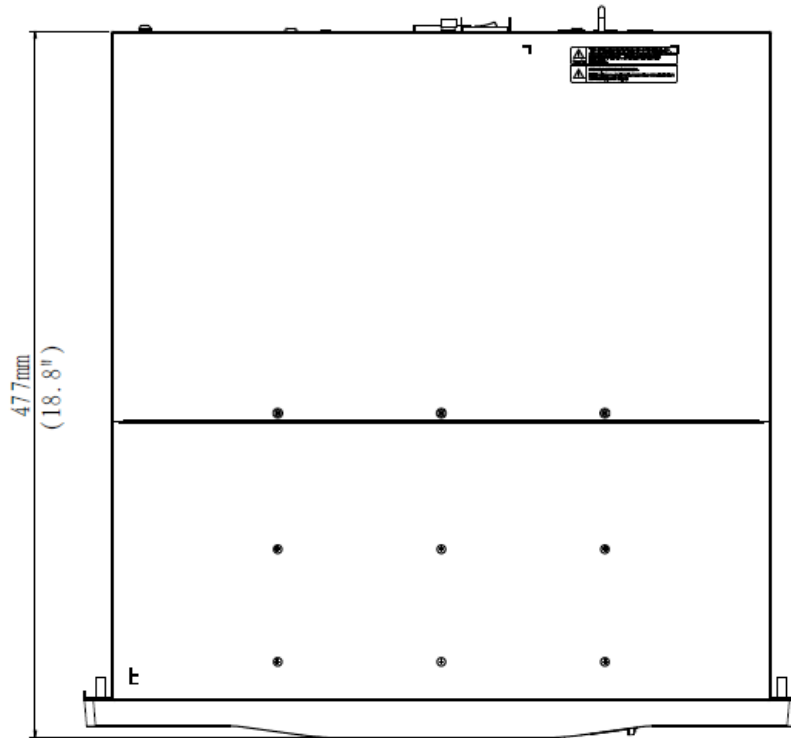
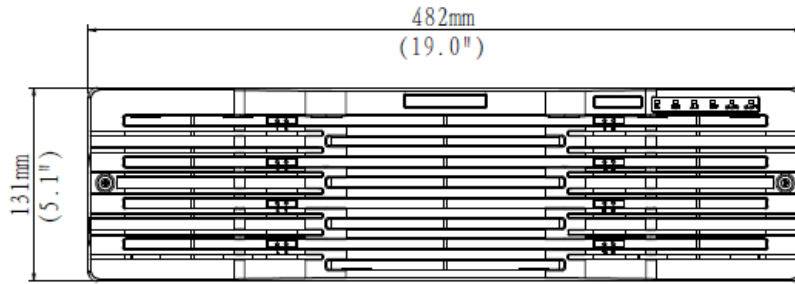
## Mobile App

Function	Description
Device management	
Device management	Up to 256 channels Add device by P2P or IP address Edit, delete devices Automatic cloud device synchronization when logged into cloud account
Real-time monitoring	
Play control	1/4/9/16 window display Display by page Three stream types for selection: main, sub and third Drag live view window Landscape display mode
PTZ control	PTZ control by gestures Focus, zoom, and preset Note: Actual PTZ control actions may vary with capabilities of NVR, IPC and external PTZ.
Recording and playback	
Recording search	Recording search by time period Zoom in/out on timeline by 5, 30 and 60 minutes. Search by dragging timeline
Recording playback	One channel playback

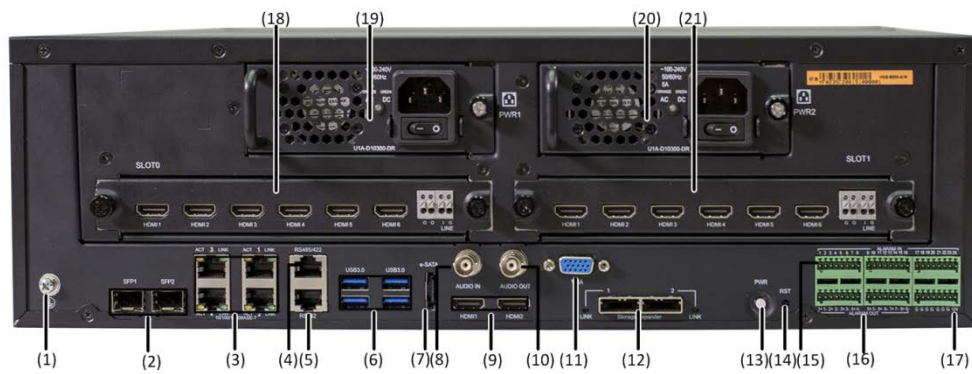
	Digital zoom Snapshot Playback at a variety of speeds: 1/4x, 1/2x, 1x, 2x, 4x.
<b>Alarm management</b>	
Alarm type	Multiple types of service alarms and device alarms
Alarm triggered action	Play live and recorded video for device alarms Push alarm message in real time
Event management	View, delete event information, forward event information via email Event list processing in batches
<b>Cloud account management</b>	
Register/Login	Support binding with mobile phone number Support use without login
Management	Support for changing password and personal info
<b>Operation environment</b>	
OS	iOS (6.1 or higher) Android (3.0 or higher)
RAM	Min. 1 GB
Display resolution	480×800 or higher

# Appearance

## Dimensions

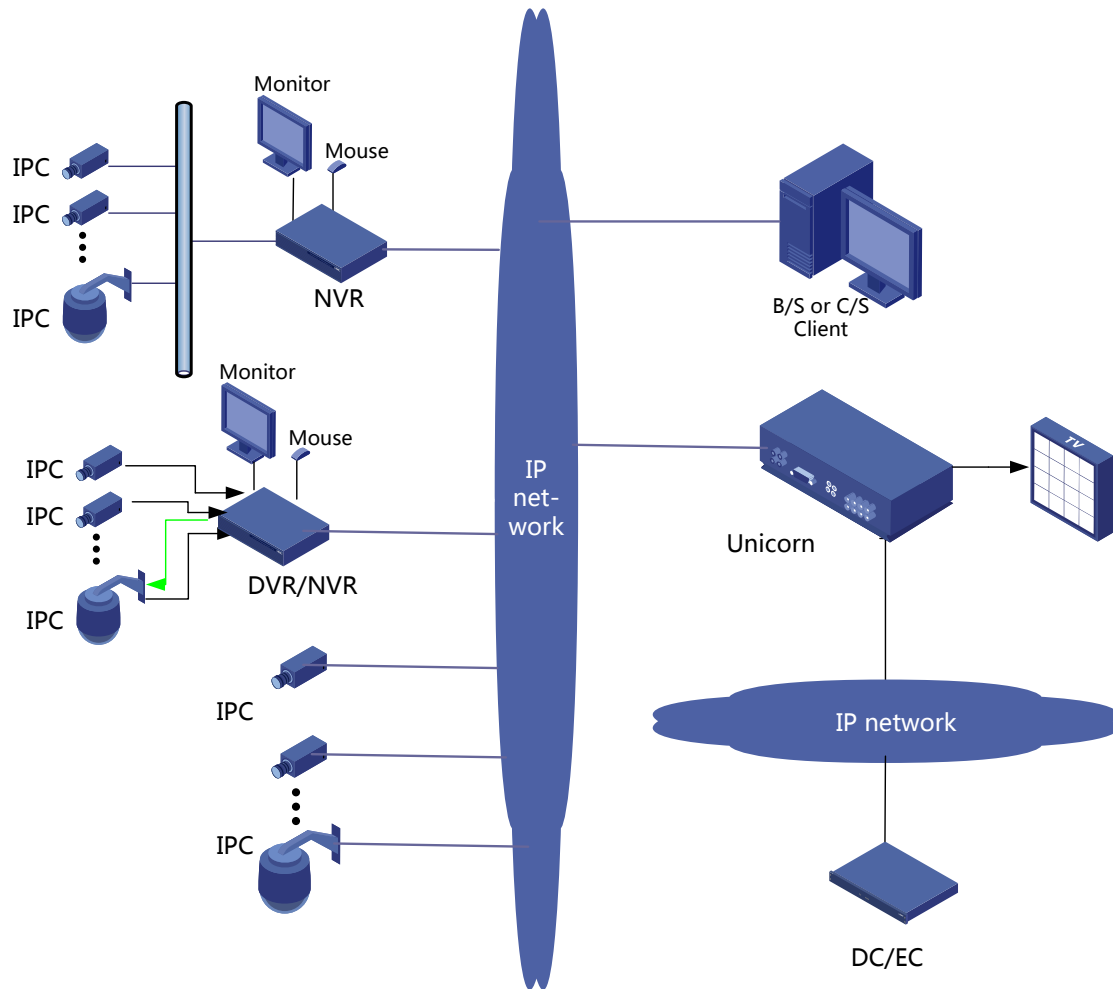


## Rear Panel



(1) Grounding	(2) 1000M SFP interface	(3) 1000M Ethernet interface
(4) RS-232	(5) RS-485/422	(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) Service socket 1
(19) AC power module 1	(20) AC power module 2 (optional)	(21) Service socket 2

## Typical Application



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

South Tower, Building 10, Wanlun Science Park, 88 Jiangling Road, Hangzhou, P.R. China 310051

Email: [overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)

<http://www.uniview.com>

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\*Product specifications and availability are subject to change without notice.