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Starlink

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.

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Key Features

- Embedded system design to ensure stable operation
- Support for redundant power, unique dual-OS design
- Hot-swappable HDD supporting RAID1 and RAID5
- 512Mbps 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 384T 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, certificate creation and upload, 802.1x authentication, ARP protection

4×USB3.0

Up to 1000 users

B/S, C/S and mobile app clients

Specifications

Item		Unicorn	
Video input		Max. 1000 devices and 2000 channels	
Video		H.265, H.264	
Decoding	Decoding capacity	4×4K@30, 16×1080p@30, 36×720p@30, 64×D1	
	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, and 512M storage bandwidth	
User management		Max 1000 users, max 300 concurrent online users	
Device management		IPC, NVR, encoder, decoder(standard/expanded), network keyboard, cloud devices	
Play control		1/4/5/6/8/9/10/13/16/17/25/32/36/64 window display	
		Corridor format	
		Up to 3 auxiliary monitors	
Playback		Play NVR recordings	
гаураск		Up to 24 channels; synchronous playback up to 16 channels	
Video wall		Video wall plan	
		Split screen	
		Up to 9×9 monitors	
HDD interfa	ace	16×SATA interfaces; total storage capacity expandable to 384T (48 HDD)	
External	Network	4×10M/100M/1000M Base-T adaptive Ethernet interfaces	
interface Network		2×1000M SFP optical interfaces	

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	USB	4×USB3.0
	Serial	1×RS-232 (RJ45), 1×RS-485 (RJ45)
	Alarm input/output	24×alarm inputs, 8×alarm outputs
	Power output	12 V DC
Audio		A pair of RCA audio input/output interfaces
	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) ≤ 165W (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	Height: 3U, support mounting in standard 19" cabinet
	(H×D×W)	130.5 mm × 477.1 mm × 481.6 mm (5.1"×18.8"×19") (including front panel)

B/S Client Specifications

Function	Description	
Basic configuration		
Organization management	Up to 10 levels	
User management	Role definition, user definition, user lock/unlock, validity period Max 1000 users; max 3s00 concurrent online users	
IPC, NVR, encoder, decoder(standard/expanded), network keyboard, cloud devicesDevice managementUp to 1000 devices and 2000 channelsStandard Onvif-based connection to third-party devices		
Service configuration		
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		
System configuration		
Basic configuration	Basic device information, system time, holiday	
HDD configuration	HDD configuration Hard disk management, capacity configuration, storage policy, disk array (RAID1, RAID5)	
Network configuration	TCP/IP, EZCloud, DDNS, port, port mapping, email	

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Security	HTTPS, 802.1x, ARP protection	
System maintenance	Restart, restore some or all factory default settings, configuration import/export, local upgrade, diagnostic info export	
Operation maintenance and statistics		
Server statistics	S.M.A.R.T test, network status, user status	
Device statistics	Device status, channel status, recording status	
Log query	Alarm logs, operation logs	

C/S Client Specifications

Function	Description	
Live View		
Play control	1/4/5/6/8/9/10/13/16/17/25/32/36/64 window display Corridor format Up to 3 auxiliary monitors	
View management	Custom views Sequence operation	
PTZ control	PTZ control panel (zoom, focus, rotation direction and speed, preset, patrol) Direction control using the mouse button in live view window Note: Actual PTZ control actions may vary with capabilities of NVR, IPC and external PTZ.	
Function and feature	Play by saved view, snapshot, digital zoom, recording, instant playback	
Recording and playback		
Playback	NVR recording playback Up to 24 channels; synchronous playback up to 16 channels MP4 recording format	
Function and feature	Recording schedule, recording search by time/file/event, recording download, snapshot, digital zoom, multiple playback speeds (-16x to 16x), audio.	
Alarm management		
Alarm type	Multiple service and device alarm types	
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 latest alarms View, acknowledge and search history alarm records	
Video wall		
Video wall configuration	Video wall plan Split screen Up to 9×9 monitors	
Video on wall	Play live video on video wall (supports sequence operation), recorded video on video wall	

Corridor format Preview and playback for decoding channels

Mobile App Specifications

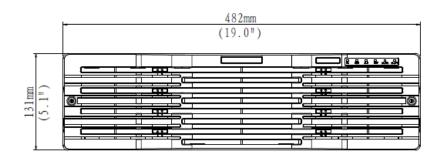
Function	Description		
Device management			
Device management	Up to 2000 channels Add device by P2P or IP address Edit, delete devices Automatic cloud device synchronization when logged into cloud account		
Live view			
Play control	1/4/9/16 window display Switch stream type: main, sub and third Drag to switch 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.		
Playback			
Recording search	Search recording by time period Zoom in/out on timeline by 5, 30 and 60 minutes. Search by dragging timeline		
Recording playback	1 channel Digital zoom Snapshot Multiple playback speeds: 1/4x, 1/2x, 1x, 2x, 4x.		
Alarm management			
Alarm type	Multiple service and device alarm types		
Alarm triggered action	View related live or recorded video Push alarm message in real time		
Event management	View, delete events, forward event information via email Batch process events		
Cloud account management			
Register/Login	er/Login Support account binding with a mobile phone number Allow use without login		
Management	Allow the change of password and personal info		
Operation environment			

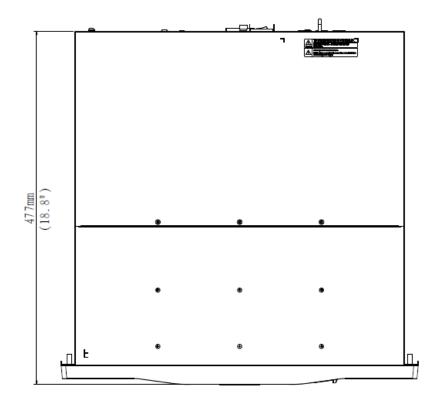
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OS	iOS (6.1 or higher) Android (3.0 or higher)	
RAM	Min. 1 GB	
Display resolution	480×800 or higher	

Appearance

Dimensions



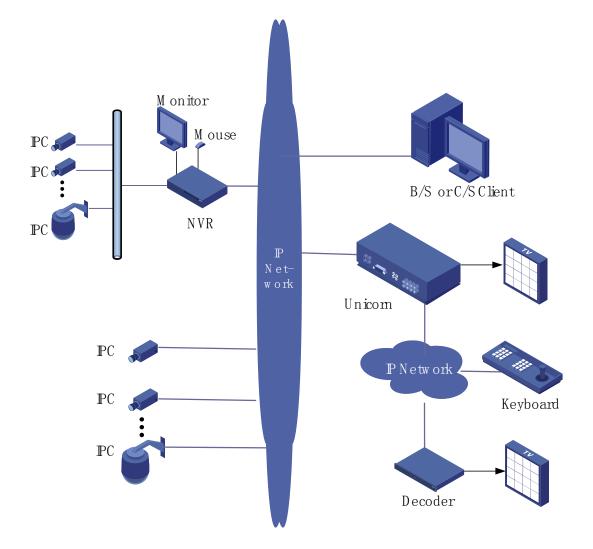


Rear Panel

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

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Typical Application





"Your Reliable Integrated Video Surveillance Solutions Provider"

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