



PSSUnicorn



The Unicorn is an integrated surveillance platform with video input, storage, transfer and device management functions designed specifically for digital surveillance applications. The Unicorn has adopted audio/video compression and decompression, embedded system, storage, network, and technologies and it is suitable for security surveillance scenarios such as residential areas, buildings, campus, hotels, and shopping malls etc.

- Third-part IP cameras supported with standard ONVIF
- Support for mobile clients (iOS & Android) access
- Up to 1000 devices/2000 channels connections
- Unified management of NVR, IPC, decoder, network keyboard & cloud devices
- 16 SATA HDDs, up to 14TB each HDD
- 16 x 1080p decoding outputs in 3 screens
- Support for live view, playback, sequence, video wall, E-map, two-way audio, alarm plan
- Support of network fault tolerance, multi-IP configuration & load balancing



Specifications

PSSUnicorn	
Video Management	
Number of Connected Cameras per Server	1000 devices or 2000 channels 1000 devices connected via ONVIF
Number of Connected Face Recognition Terminals	128
Image Processing Performance	Receive Vehicle or face images: 100 images per second <i>*NOTE: For example, if each device uploads 1 image per second, then 100 devices can be connected, if each device uploads 5 images per second, then 20 devices can be connected*</i>
Device Management	IPC, NVR, face recognition terminal, decoder (standard/expanded), network keyboard, cloud devices, alarm control panel & door access control
Number of 3rd-Party Alarm Control Panels/Access Control Devices	30
Number of Users	1000
Number of Online Users	300
Number of Roles Per User	16
Bandwidth of Video Input per Server	512 Mbps
Bandwidth of Video Output per Server	384 Mbps
Decoding	
Video Compression	Ultra 265, H.265, H.264
Decoding	4 x 4K@30, 16 x 1080p@30, 36 x 720p@30, 64 x D1
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 960p, 720p, 960H, D1, 2CIF, CIF, QCIF
Display on Video Wall	HDMI (x2) & VGA (x1) output, HDMI output supports 4K resolution
Audio Compression	G.711A, G.711U
Decoding Card (Optional)	Max. 2 cards supported, models: HDMI4-C & HDMI6-C
HDMI4-C Decoding Card	4-Channel HDMI outputs, with decoding of 4 x 4K@60, 12 x 4K@30, 48 x 1080p@30, 96 x 720p@30
HDMI6-C Decoding Card	6-Channel HDMI outputs, with decoding of 6 x 4K@60, 12 x 4K@30, 48 x 1080p@30, 96 x 720p@30

**Storage**

HDD Installation	Hot-Swappable HDDs Support 16 HDDs (3.5", up to 14TB for each)
RAID Mode	RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60
Performance of Video Storage per Server	512Mbps/256 Channels
Disk Enclosure (Optional)	Max. 2 disks enclosures supported, models: DEU1008 & DEU1016
DEU1008 Disk Enclosure	8 x SATA interfaces, up to 14TB storage per interface
DEU1016 Disk Enclosure	16 x SATA interfaces, up to 14TB storage per interface
Play Control	1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 17, 25, 32, 36, 64 Window display Corridor format Up to 3 auxiliary monitors
Playback	Play NVR recordings Up to 24-Channels for multiple clients, synchronous playback up to 16-Channels for single client

Data Info

Alarm Records	200,000
Operation Logs	200,000
Face Capture Records	3 Million
Face Alarms Records	3 Million
Vehicle Pass-Through Records	3 Million
Structured Motor Vehicle, Non-Motor Vehicle & Pedestrian Records	3 Million
Access Control Entry/Exit Records	3 Million
Alarm Processing Capacity	100/s

System

Main Processor	Intel(R) CPU
Memory	4GB DDR3L
Power Supply	100-240 VAC (with power on/off switch) Dual-Power redundancy



Interface

Network	4 x 10M/100M/1000M Base-T adaptive Ethernet interfaces 2 x 100M SFP optical interfaces
USB	4 x USB3.0
HDMI	2 x HDMI
VGA	1 x VGA
Serial	1 x RS-232 (RJ45), 1 x RS-485(RJ45)
Alarm Input/Output	24 x Alarm Inputs, 8 x Alarm Outputs
Power Output	12 V DC
Audio Alarm	Buzzer
Expansion	1 x eSATA interface 2 x miniSAS interfaces 2 x decoding cards

Others

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 477.1 mm × 481.6 mm × 130.5 mm (18.8"×19"×5.1") (including front panel) (D x W x H)

Dimensions

