

huperVision 4000 2D&3D Intelligent Video Surveillance

Ideal for Verticals

Huper Laboratories (known as huperLab) is a leading provider of intelligent video surveillance solutions, and a technology innovator on 2D & 3D video analytics, video/audio codecs and streaming technologies. Based on huperVision 4000 high-performance platform, the solution delivers self-developed and patent granted 2D & 3D video analytics with high accuracy for multiple intelligent surveillance applications. The 3D Video Analytics, utilized exclusive 3D stereo camera, works in stereo vision as human eyes to real-time detect moving objects in-depth that can better distinguish background, noise and moving target objects and effectively reduce the influence by light and shadow changes, the overlapping of moving objects, fallen leaves, raindrops and so on. Thus, it brings higher accuracy to count people in high density area, real-time measure object heights, as well as fit the various detection scenarios with different heights both for indoor and outdoor use.



huperVision 2D & 3D Intelligent Video Analytics

Video Analytics	Description		Camera	
	3D People Counter	Bi-directionally count people with higher accuracy and less influenced by light and shadow changes		
3D Video Analytics	3D Virtual Fence	Perceive intrusions with higher accuracy when suspicious objects / people pass a predefined line or proceed the wrong way, and less influenced by light and shadow changes.	huperEyes 3D Stereo Camera	
	People Counter Pro	Bi-directionally count people with the advanced software settings for different scenarios.		
	People Counter/Flow Counting*	Calculate the amount of objects and people passing by the predefined line bi-directionally	HD-SDVCCTV/IP Cameras	
	Access Counter	Count how many times the specific area/object has been accessed		
	Occupancy Counter	Count the number of people occupying in certain areas		
	Queue Length Management	Real-time detect the number of people in queue and estimate waiting time		
	Smoke Detection	Detect smoke and outline its location in the video		
	Face Detection	Can detect human faces immediately		
	Flame Detection Pro	Notify users while detecting flames, requires specific camera	Specific camera model	
	Flame Detection	Alarm users while detection flames	Anderstein von der verschieden	
	Loitering Detection	Draw the moving path, and alarms when suspicious people are lottering on the scene		
2D Video Analytics	Missing & Left Object Detection*	Send notifications if an existing/unattended object is missing/left for a period of time		
	Virtual Fence Detection*	Perceive intrusions when suspicious objects/people pass a predefined line or proceed the wrong way.	HD-SDI/CCTV/IP Camera	
	Secure Zone Detection*	Alarm when intrusions occur in one or more predefined forbidden zones		
	Scene Change Detection*	Alarm when the camera lens are covered, sprayed, defocused, or repositioned		
	License Plate Recognition	Can real-time recognize license plate numbers, and archive the video for further car plate search		
	Car Plate Detection Video Stabilization	Detect car plates and mark their position in real-time video Analyze and stabilize video when the camera installed outdoors is shaking		
	Traffic Counter	Bi-directionally counts vehicles by sizes, such as trucks, buses, bikes and pedestrians, etc		
huperReporter	 Query counting data from multiple remote/local counters on a daily, weekly and monthly basis Consolidate counting data in different chart formals, including line charts, Export counting data in CSV format for further analysis Print charts and tables 			
		ter connections to huperReporter		

Note: 1. 'Free built-in video analytics in huperVision 4000. 2. huperReporter works with huperVision v1.56 and above, and People Counter Pro/People Counter, More huperLab's counters will be supported in the next version.



huperEyes 3D Stereo Camera

Item	Description
Mounting Height	2.6 m to 3.5 m
Detection Zone*	3 x 3 m
Camera Installation Angle	60-90 degree
Camera Type	Analog (NTSC/PAL)
Lens	2.8mm/3.6mm
Supply Voltage	12V 1A
Dimension	168(W) x 50(H) x 50(L) mm
Weight	600g

Note: 1. 'Detection zone may vary depending on the camera installation angle and mounting height.



huperVision IVS License Key

Item	Description
PC Interface	USB 2.0 (Internal/External)
Available Channel License	1CH - 64CH
Software Platform	huperVision 4000

Flame Detection IP Camera

Product Model

Image Sensor

Video Resolution/Frame Rate

Video Frame Rate | Compression

Minimum Illumination

Second Video Output

Signal to Noise Ratio (S/N)

Menu Day & Night Mode

Auto Electronic Shutter

White Balance | DNR; Sense Up

Language

Image Setting

Integrated Video Detection

Time Clock

Camera Control Interface

Ethernet

Browser

Bit Rate Transmission

Supported Protocols

Video Streaming

Users / Security

Alarm Trigger

Multicast Connector

Lens, Angle of View (H)

Water Resistance

Power Supply; Consumption

Operation; Storage Temp Operation; Storage Humidity

Dimensions / Net Weight

HN-F381

1/2.7" 2.0 Megapixel Progressive CMOS Sensor

1920 x 1080@ 30fps, 1280 x 720 @ 30fps, 720 x 480 @ 30fps

Up to 30fps for all videos / H.264, MPEG4, M-JPEG

0.0001Lux (Sense-up)

1.0Vp-p Composite, 75Ω (BNC)

More than 58dB

Can be set via browser

Color / B&W / Auto / External

1/100,000 to 1/7.5 sec.

- : Yes Auto_wide / Auto_normal / Sunny / Shadow / Indoor Lamp / FL1 / FL2

English / Japanese / Chinese (Traditional, Simplified) / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch

Brightness / Contrast / Saturation / Sharpness / HUE / EV Compensation / AWB / Rotation / Exposure Mode /

Exposure Priority / Auto IRIS / BLC / AGC

Motion Detection

Yes

Pelco D, Pelco P, Customer

10/100m auto negotiation

IE 8.0 or above

64 up to 12,000 Kbps TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPP6E,

ARP, UPnP, RTSP, RTP, SNMP, TRAP, Ethernet (RJ-45 Wired 10/100/1000M Base-TX

H.264, MPEG4 and M-JPEG Dual/Triple Streaming

Support 9 users ID/Password Protection

File upload via FTP and email Notification via email, HTTP

RJ45, DC Power, BNC Reset

F2.8 - 12 mm

IP66

12V DC/PoE: 4W

-10°C-50°C; -20°C-60°C

Maximum: RH80%; RH90% 80(DIA) x 160(D) mm / 520g

Flame Detection Analog Camera

Product Model

TV System

Image Sensor

Number of Total Pixels (CCD)

Resolution

Minimum Blumination

Wide Dynamic Range

Video Output

Signal to Noise Ratio (S/N)

Gamma correction

Mechanical IR Cut Filter (ICR)

Menu Title

Synchronizing System

Electronic Shutter

Automatic Gain Control

White Balance WOR : BLC

High Light Compensation

Flickerless

Dynamic Noise Reduction

Sense Up

Digital Image Stabilizer (DIS)

Language E-Zoom

Camera Control Interface

Automatic IRIS: Connector

Lens Mount

Power Supply : Consumption Operation ; Storage Temp

Operation : Storage Humidity Dimensions

Net Weight

HA-F101

PAL / NTSC

1/3" Sony 960H SuperHAD CCD II

1020(H)x596(V) / 1020(H)x508(V)

Color: 720TVL

0.03Lux@F1.2 ; Sense Up : 0.0001Lux@F1.2

512X Normal Camera (54dB)

1.0Vp-p Composite, 750 (BNC) More than 540b (AGC off)

0.45

OSD Control or by RS485 Control / UTC (Up the Coax)

TITLE

INTERNAL / LINE LOCK

AUTO (1/50(60)-1/100,000 sec/ MANUAL: 1/50(60), FL 1/120(100), 1/250, 1/350, 1/350, 1/350, 1/450, 1/500, 1/600, 1/750, 1/1,000; 1/1,500, 1/2,000, 1/3,000, 1/4000, 1/10,00, 1/30,000, 1/60,000, 1/100,000 sec

0-200 Levels (Adjustable Level Settings)

ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR

WDR / BLC / OFF ON/ OFF / AUTO

ON / OFF 3D / 2D

AUTO(Limit x2-x512) / OFF

ON/OFF ENGLISH/ TRADITIONAL CHINESE / SIMPLIFEID CHINESE

x1-x256, Pan / Tilt Adjustable Pelco-D

VIDEO/DC; D4 IRIS Jack

CS / C mount (With Adaptor Ring)

Standard: 12Vdc±10%; 1.5W, Option: 12Vdc/24Vac (10.8-39Vdc/24Vac); 2.5W -10°C-50°C; -20°C-60°C Maximum: RH80%: RH90%

64(W)x52(H)x120(L)mm





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STEREO VISION 3D Stereo Camera





huperEyes 3D Stereo Camera, with dual-lens exclusive design as human eyes, can capture stereo images for 3D moving object detection, construction, tracking and analysis. It brings the high accuracy level to over 98% with high tolerance to light and shadow changes, the overlapped moving objects, falling leaves, raindrops and so on.

Spotlight

- Easy to Use & Setup
- Over 98% High Accuracy
- Applicable to an Indoor, Outdoor & High Density Areas
- Innovative Algorithm to be Tolerant to Light and Shadow Changes
- Real-time Height Analysis for Moving Objects
- Easy Integration & Configuration

Key Features & Benefits

- High Accurate Data for Business Intelligence
 - Quickly analyze customer/visitor traffic in the store
 - Identify hot zones and hot products in the store
 - Evaluate in-store marketing effectiveness
 - Heat Maps for customer/visitor movement analysis

Efficient In-store Staffing

- Timely allocate on-site staffing to hot zones
- Improve sales services and marketing support
- Reduce labor waste in some areas

Improve Customer Services & Satisfaction

- Instantly learn the in-store people flow to adjust air conditioning and lighting
- Monitor queue length to reduce customer wait time at check-out registers
- Proper staff approach to the customers/visitors who may need help

huperReporter

huperReporter is an easy-to-use data analyzer that generates traffic reports for huperLab counting products on a daily, weekly and monthly basis. The counting data can be presented in different chart formats, and exported as a CSV file for further analysis. huperReporter further allows up to 500 counter connections for data consolidation.



2D & 3D Video Analytics



2D & 3D Video Analytics

Robust 2D Video Analytics

2D People Counter can handle the shadows and crowd problems caused by heavy people traffic and flow directions to maintain high accuracy level.

Flame and Smoke detection covers wide open spaces and longer distances within the camera field of view. Once events detected, the system will send alerts to operators within 15 seconds for early warning.

Innovative 3D Video Analytics

huperLab's self-developed 3D video algorithm constructs 3D objects and environments in real-time to perform stereo vision for people counting and virtual fence detection.

Strengths of Stereo Vision Analytics

The stereo vision captures three-dimensional information to better distinguish background, lights and shadows, and moving target objects. The stereo vision detection works well both for indoor and outdoor use for higher accuracy.







Various Applications



Count Restroom Users to Improve Clean Maintenance



huperLab 3D Stereo People Counter SDK/CGI Integration Support



People Counting & Conversion in Retail Stores



and Air-conditioning/Lighting adjustment





Flame & Smoke Detection For Perfect Early Warning





Key Features & Benefits

- Real-time Detection & Recording
- Instantly Verify Flame and Smoke Incidents
- Early Warning and Quick Alert within 10-15 Seconds
- Detection Coverage for Wide-open Detection Area
- High Accuracy with Flexible Parameter Adjustments
- Timely Activate Integrated Emergency Equipment
- View Live Video on Smartphones and Tablets
- Push Video Notifications with Event Video Playback



huperCenter





CCTV & IP Camera Support



Flame & Smoke Detection

Flame Detection/Flame Detection Pro

- Real-time Vision-based Detection & Recording
- Ideal for Wide-open and High Ceiling Detection
- Push Video Notification on iOS/Android Smartphones and Tablets
- Easy to Install and Integrate with Emergency Equipment

Smoke Detection

- Real-time Vision-based Detection & Recording
- Timely Verify Smoke-like Incident, and Outline the Dynamic
- Smoke in Seconds
- Push Video Notification on iOS/Android Smartphones and Tablets
- Easy to Install and Ideal to Detect Smoke Caused by High Temperature





Applicable Scenarios

- Factory & Industrial Sites
- Power Plants
- Oil Tanks
- Schools
- Warehouses and Storage Rooms
- Entertainment Places
- Museums & Art Galleries

