huperLab®

huperVision 4000 v2.0

Tribrid Intelligent Video Surveillance

- Video Surveillance System for IP cameras, HD-SDI cameras and CCTV cameras
- Built-in 64CH matrix display and supporting multiple monitors
- Support ePTZ and video de-warping for fisheye cameras
- Support H.265 video streams of IP Cameras

- Innovative 3D/2D Video Analytics
- Advanced Privacy Protection & Data Security
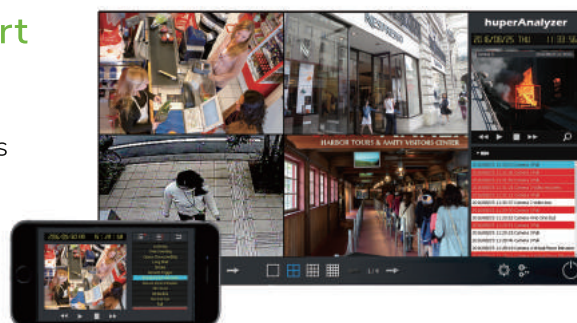- Push Event Notification to iPhone/iPad, and Android phones/tablets

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huperVision v2.0 features intuitive and smart software that enables effectively receiving, displaying and managing real-time videos, recordings and events from multiple video streams in one single interface, including HD-SDI cameras, megapixel IP cameras, 3D stereo cameras, and 960H/D1 cameras. The AI-powered 2D &3D video analytics features allow users to create customized surveillance solutions for specific industry needs.
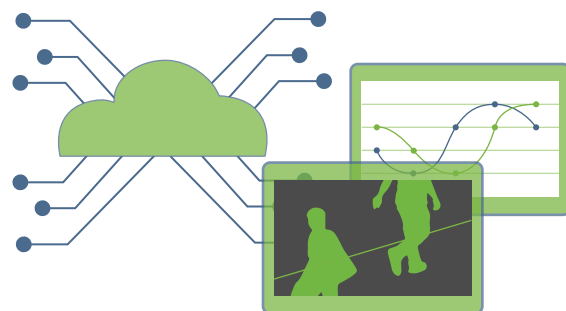
Key Features

Full-featured 3D / 2D Video Analytics Support

- 27+ innovative 3D / 2D video analytics
- 3D Video Analytics are resistant to light changes and shadows
- Intuitive panel for easy managing video analytics
- Capacity management of people counts from
  multiple entrances

Seamless System Integration

- Digital inputs/outputs to connect to external equipment
- ODBC interface to access 3D / 2D video
  analytics database
- POS utility to connect to POS equipment
- huperEvent SDK for building customized event handlers
- SDK available for 3rd party system integration
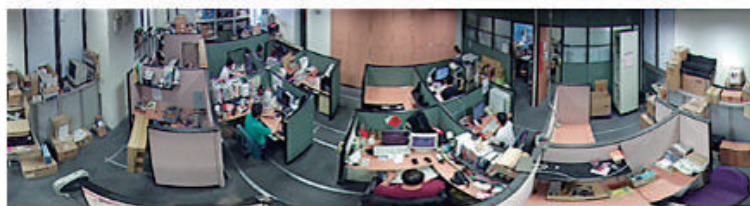

180° / 360° Fisheye Panoramic Surveillance

- Real-time video de-warping of 180° / 360° fisheye cameras
- ePTZ control to navigate ROI (Region of Interest) in fisheye cameras
- Panoramic view, dual-view and quad-view of fisheye camera video
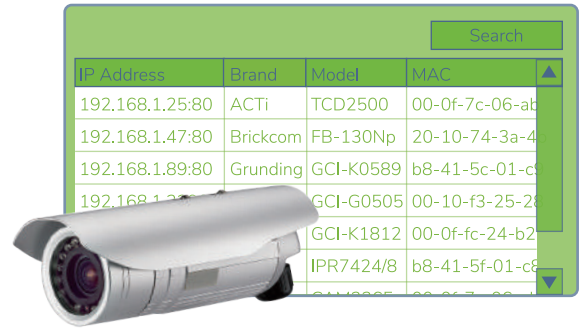

360° View   Quad-View   180° Dual-View

Optimization for IP Surveillance

- Support H.265 video streams
- Support dual-stream for display and recording
  in different video resolutions
- Auto-switch video resolution while zoom in / out
- One-click to search/connect IP cameras in a LAN
- ONVIF support

IP Address	Brand	Model	MAC	
				Search
192.168.1.25:80	ACTi	TCD2500	00-0f-7c-06-ab	▲
192.168.1.47:80	Brickcom	FB-130Np	20-10-74-3a-4	
192.168.1.89:80	Grunding	GCI-K0589	b8-41-5c-01-c9	
192.168.1.3		GCI-G0505	00-10-f3-25-28	
		GCI-K1812	00-0f-fc-24-b2	
		IPR7424/8	b8-41-5f-01-c8	
				▼

SeamlessCloud Storage

- Ideal solution for keeping long period of video records
- Zero loss of record data transfer to cloud storage,
  as well as to DAS, NAS and SAN
- Auto-recycle & quick search video records in
  external storages

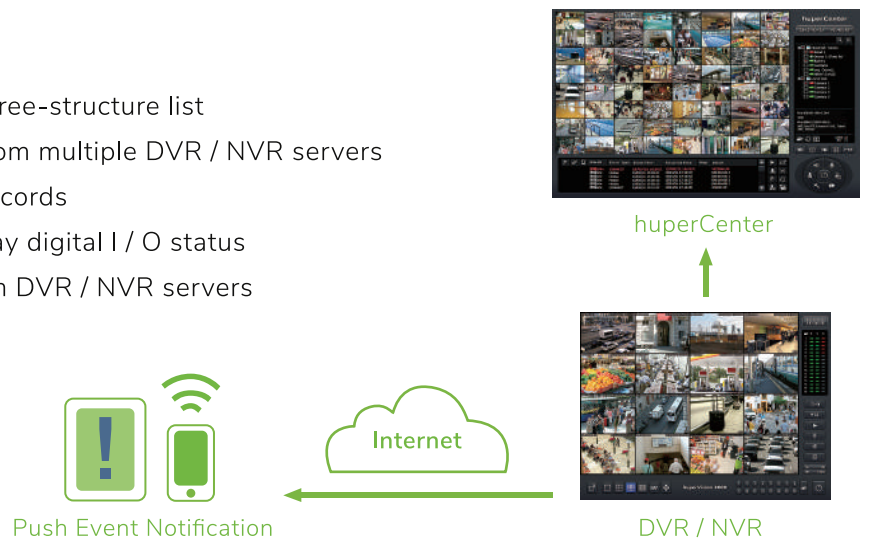DVR / NVR → Recording / Searching → SAN / NAS / Local HDD

Remote & Mobile Monitoring

- Remote video viewing and PTZ camera control
- Push event notifications to iPhone / iPad,
  and Android phones / tablets
- Display/replay events of remote DVR / NVR servers
- Two-way voice communication to / from a DVR / NVR servers
- Play alarm sound at remote DVR / NVR servers

huperCenter (CMS)

- Group DVR/NVR servers/cameras in a tree-structure list
- Receive / manage event notifications from multiple DVR / NVR servers
- Display event video and replay event records
- Remote control PTZ cameras and display digital I / O status
- Two-way voice communication to / from DVR / NVR servers
- Support redundant event management

huperCenter

Push Event Notification ← Internet ← DVR / NVR

huperVision 4000 v2.0 Product Specifications

Specifications

Video Input	Up to 64 channels
Audio Input	Up to 64 channels
Camera Type	Support megapixel IP cameras, HD-SDI digital cameras, 960H cameras, and general CCTV D1 cameras
Screen Display	• Up to 64 split-screen display • Support 64/56/49/48/36/30/25/24/20/16/12/9/6/4/1 split-screens, full screen, loop display, and customized split-screen layout • Multiple monitors & TV-out to support matrix display
Resolution	1080p, 720p, 960x480/960x576(Progressive), 960x480/960x576 (HD), 960x480/960x576(SW), 720x480/720x576 (HD), 720x480/720x576, 720x480/720x576 (SW), 704x480 /704x576 (HD), 704x480/704x576, 704x480/704x576 (SW), 640x480 (HD), 640x480, 640x480 SW, 320x240
Display / Recording Rate	30/25 FPS (NTSC/PAL) per camera
3D/2D Video Analytics	3D video analytics x10 / 2D video analytics x17
Video Compression Format	• H.264, HM (MPEG-4 Like), and Motion-JPEG format • Support H.265 video streams of IP cameras
Windows OS	Microsoft Windows 10 32/ 64-bit
Language	English, Traditional Chinese, Simplified Chinese, Japanese, Polish, Italian, French, Hebrew, Russian, Danish, Dutch, Serbian, Portuguese, Portuguese (Brazilian), Thai, Croatian, Spanish, Spanish (Mexican), Turkish, Vietnamese, Persian

Product Features

Key Features	• 3-in-1 HD DVR/NVR Surveillance: support megapixels IP cameras, HD-SDI 1080p/720p cameras, and 960H/D1 cameras • Built-in 64CH matrix display and supporting multiple monitors • Support dual-stream of IP cameras and auto-switch video display resolution • Support ePTZ and video de-warping for 180°/360° fisheye cameras • Innovative 3D/2D video analytics • Intuitive panel for easy managing 3D/2D video analytics • Push event notification to iPhone/iPad, and Android phones/tablets • Quick Setting Wizard to simplify the system setup • SeamlessCloud storage for keeping long period of video records
Recording	• Types: recycle recording, non-stop recording, schedule recording, non-stop smart recording, event recording and time-lapse recording • Video/audio synchronized recording (audio formats: 8 bit 8k/32k, 16 bit 8k/32k) • The SmartFile technology avoids disk fragmentation and increase system stability for long-term recording
Display & Viewing	• Matrix View provides 64/56/49/48/36/30/25/24/20/16/12/9/6/4/1 split-screens, full screen, loop display and customized split-screen layout • Support 4 monitors for a DVR/NVR server, each monitor display up to 64 channels • ePTZ feature to navigate ROI (Region of Interest) of camera video easily, and PiP (Picture-in-Picture) preview for quick ROI selection and movement
Playback & Search	• Search video records by camera no, date, time, event types, detection line & zone, and smart search • Smart Search includes advanced motion search, and missing & left object search • Play up to 16 video records simultaneously • Support backward playback and adjustable playback speed
3D / 2D Video Analytics	• 3D video analytics x10 : 3D People Counter, 3D Area Counter, 3D Vehicle Counter, 3D Virtual Fence, 3D Tailgating Detection, 3D Fall/Stop Detection, 3D Secure Zone, 3D Air-lock Room, 3D Loitering Detection** • 2D video analytics x17 : People Counter/People Counter Pro, Flame Detection/Flame Detection Pro, Virtual Fence Detection*, Motion Detection (with object size filtering), Missing & Left Object Detection*, Secure Zone Detection*, Scene Change Detection*, Flow Counting*, Loitering Detection, Smoke Detection, Occupancy Counter, Access Counter, Car Plate Detection, Car Plate Recognition, Video Stabilization • 3D video analytics are for indoor/outdoor use, resistant to light and shadow changes • A guided setup wizard to connect 3D cameras step by step • Intuitive panel for easy managing 3D/2D video analytics • Support 3D video analytics in large area • Capacity management of 3D/2D people counts from multiple entrances, suitable for chain stores and department stores • Support daily count reset, and auto/manual background update
Event Notification	• Push video event notification to iPhone/iPad, and Android phones/tablets • Pan PTZ cameras to presets, email/ftp event snapshots, sound alarms, flash messages, maximize event camera video, trigger digital outputs • Email event reports daily, weekly or monthly
Fisheye Cameras	• Real-time video de-warping of 180°/360° fisheye cameras • ePTZ control to navigate ROI (Region of Interest) in fisheye video • Panoramic view, dual-view and quad-view of fisheye camera videoTV-out • The video source of TV-out can be from IP cameras and CCTV cameras (worked with 4800/4700 series DVR cards) • TV-out video can be selected cameras video, event video, and/or looped camera video
Speed Dome Control	• Advanced speed dome camera control functions, including iris, pan/tilt speed adjustment, auto-loop/auto-pan, and speed dome control by a joystick / computer keyboard • On-screen control allows few mouse clicks on camera video to perform pan / tilt movements and zoom in/out operations • Auto tracking of a moving object by a speed dome camera ***
e-Map	Mark the locations of cameras, I/O devices, and alarms by icons / Animate corresponding device icons when event occurs
Remote Viewing & Control TV-out	• Remote video viewing and PTZ camera control on iPhone/iPad, and Android phones/tablets • Display/replay events of remote DVR/NVR servers • Two-way voice communication to/from remote DVR/NVR servers • Play alarm sound at remote DVR/NVR servers
Central Management Solution (CMS)	• Group DVR/NVR servers/cameras in a tree-structure list • Support 64CH event video display on single/dual monitors • Receive/manage event notifications from multiple DVR/NVR servers • Display event video and replay event records • Remote control PTZ cameras, and display digital I/O status • Two-way voice communication to/from DVR/NVR servers • Support redundant event management
Backup & Share	• Backup video records manually or by schedule • Export video records to an AVI file or a self-executable file (.exe). The self-executable file is embedded with digital authentication and password protection • Snapshot a video frame for printing or save it as a BMP file with digital watermark • Digital watermark verification tool to identify tampered video records • Embed an image to a re-saved video record file. • Convert normal video records to time-lapse video files
Access Control & Stability	• Multiple levels of access control by cameras & authorities • Account manager as a one-place account management • Log the access of video records from Remote Apps • Auto log-in to Windows system and surveillance site server • Support daylight saving and prevent video record database from corruption due to time adjustment • Advanced privacy protection and data security
TV-out	• The video source of TV-out can be from IP cameras and CCTV cameras (worked with 4800/4700 series DVR cards) • TV-out video can be selected cameras video, event video, and/or looped camera video
SeamlessCloud Storages	• Ideal solution for keeping long period of video records • Zero loss of record data transfer to cloud storages, as well as to DAS, NAS and SAN • Auto-recycle & quick search video records in external storages
Integration	• Digital inputs/outputs to connect to external equipment • ODBC interface to access 3D/2D video analytics database • POS utility to connect to POS equipment • huperEvent SDK for building customized event handlers • SDK available for 3rd party system integration

Note: 1. * built-in bonus video analytics in huperVision 4000.
2. ** available soon.
3. *** support specific Speed Dome.
4. Flame / Smoke Detection and 3D Video Analytics features require specific cameras to ensure higher accuracy.
5. Specifications are subject to change without notice.