



Flame & Smoke Detection System

Reliable Vision-based Analytics System for Early Warning in Wide-open Area

huperLab Flame & Smoke Detection System is an intelligent vision-based analytics system which incorporates patented vision algorithm technology and tested and fine-tuned detection cameras to promptly capture an image and verify flames and smoke within seconds via push event notification on mobile devices. It's a reliable solution to be applied in wide-open space and long-distance monitoring against the limitations of traditional fire alarm detectors.

Key Features

- Prompt Vision-based Flame and Smoke Detection
- Reliable Fire Alarm System against False Alarms
- Wide-open Space and Long Distance Monitoring
- Early Warning and Quick Response
- Push Video Notification Support on iOS/Android Devices in Seconds

Applications

- Automated factories and warehouses
- Flammable goods storage places
- Accommodation facilities
- Entertainment venues
- Museums and culture heritages
- Offices and buildings

Features & Benefits

Real-time Visual Detection & Recording

- Live monitoring and video recording
- Record video footage and prior event recording to be presented as the forensic evidence

Wide-open and Long Distance Coverage

- No additional sensor or equipment required
- Low limits to the ceiling height or sensor angle

Reliable Early Detection Against False Alarms

- Fast analyze and verify fire and smoke from its irregular shape, color changes and swaying motion within seconds
- Detect suspicious flame or smoke in high-resolution video for clearer image processing

Easy to Install & Integrate with Fire Safety Equipment

- Ideal to integrate with the alarms and sensors or other I/O devices
- Early response prior to fire and smoke detector trigger

Comprehensive Alert Notification

- Trigger I/O devices or PTZ camera to preset position when events detected
- Instant push video notifications to iOS/Android smartphones and tablets

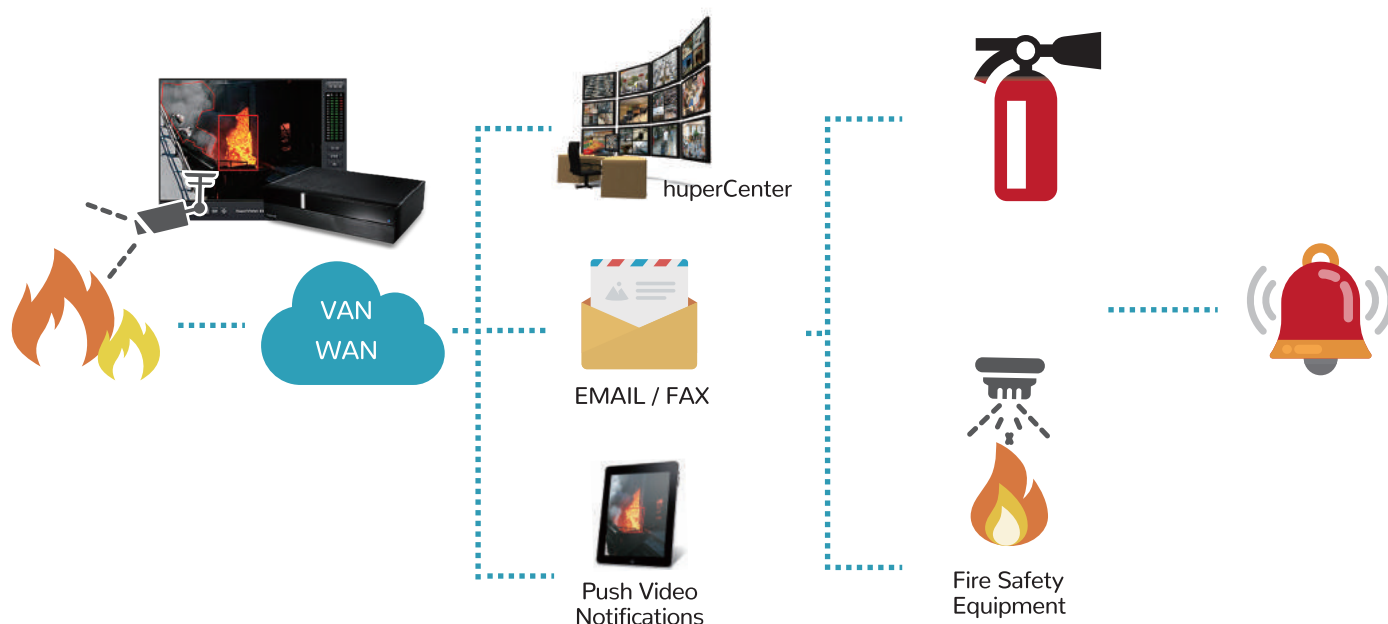
System Diagram

Flame/Smoke Video Analytics System

Instant Notifications

Quick Response

Early Warning



| Camera Options | Digital Camera | | Analog Camera |
|-----------------------|--|-----------------------------------|--|
| |   | |  |
| Product Models | HC-D220CS | HC-D225AZ | HC-A001AZ |
| Image Sensor | Sony 1/2.8" Mega Pixel CMOS Image Sensor | | Sony 1/4" 1/4-inch CCD Image Sensor |
| TV System | — | | NTSC / PAL |
| Scan Format | 1920x1080@30fps, 1920x1080@25fps, 1920x1080@60fps, 1920x1080@50fps | | — |
| Scanning System | Progressive scan | | Interlaced scan |
| Resolution | 800 TVL (CVBS) | | 520 TVL |
| Video Format | HD-SDI : 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50, 720p30, 720p25 | | D1: 720x480 / 720x576 |
| Minimum Illumination | 0.02lx | | 0.07lx |
| Signal to Noise Ratio | 52dB (Max) | | 52dB (Max) |
| Day & Night Mode | Auto / Color / B&W / External | | Auto / Color / B&W |
| White Balance | AUTO / ATW / AWB (One Push) | | AUTO / ATW / AWB (One Push) |
| Digital Wide | Off / Low / Mid / High | | — |
| Dynamic Range | Off / Low / Mid / High | | — |
| Auto Exposure | 1/30(25) to 1/30000 sec. | | 1/60(1/50) to 1/120000 sec. |
| Video Output | Digital HD-SDI | | Composite & Y/C output 1.0Vp-p at 75 ohm |
| Lens | f5-50mm Auto IRIS CS mount Lens | Built-in 20X Auto Zoom Lens | Built-in 22X Auto Zoom Lens |
| Operation Temperature | -10℃ ~ 50℃ | | -10℃ ~ 50℃ |
| Storage Temperature | -30℃ ~ 70℃ | | — |
| Humidity | 80% Max | | 85% Max |
| Power Source | DC+12V / 3.24W | | DC+12V / 3.6W |
| Dimensions | 120 mm (L) X 60 mm (W) X 80 mm (H) | 170mm (L) X 70 mm (W) X 80 mm (H) | 120 mm (L) X 60 mm (W) X 80 mm (H) |



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