Video Fire Detection System

Immediate Awareness of Fire !

- Early-Stage Flame & Smoke Detection
- Immediate Visual Alarm Verification
- Indoor Excessive Ceiling Space &
  Outdoor Wide-Open/Towering Space.

FM APPROVED

EN54

TAIWAN EXCELLENCE 2011

GKB VFDS

VFDS → Video Fire Detection System

CCTV +
Flame & Smoke Detection +
Visual Alarm Verification

GKB's VFDS an integrated CCTV solution which in able to detect both SMOKE and FLAME at the same time in "FIRE EARLY STAGE", and realize "Immediate Verification" with video in wide-open and excessive-ceiling spaces.

- **High Sensitivity of Video Fire Detection.**
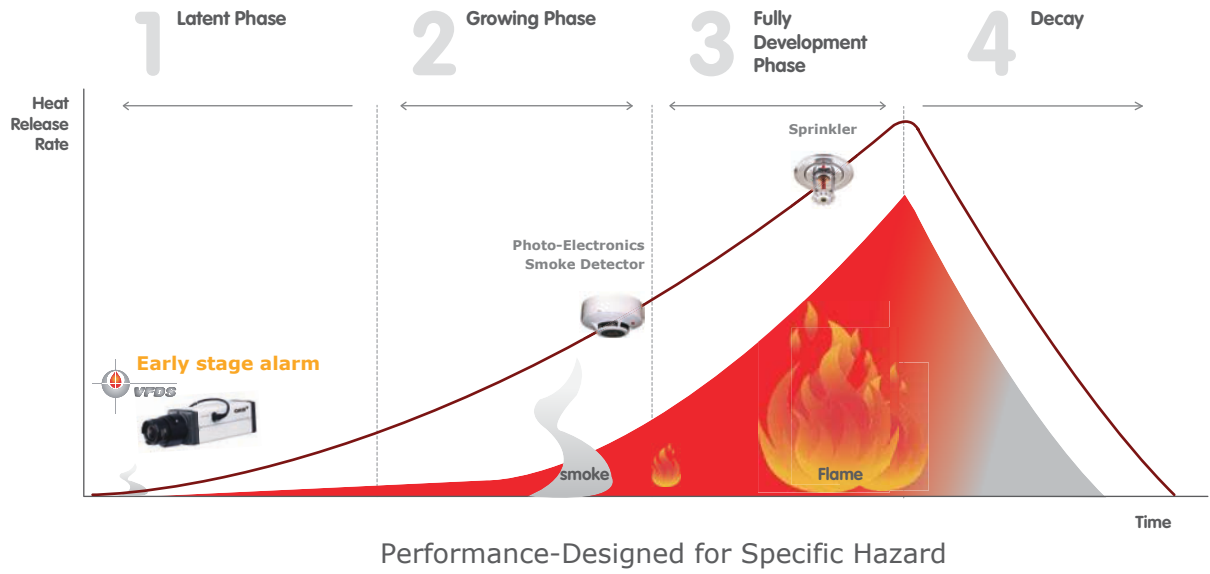
Immediate Awareness of Fire !

Immediate Awareness of Fire !
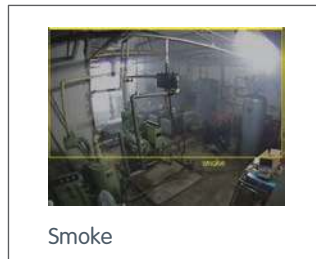
Case Reference:

1. Chemical Storage

2. Power Plant

3. Hospital / Elder-Care Center

4. Boiler Room

5. Gas Room

6. Oil Storage

7. Cotton Storage Field

8. Petroleum Site

9. Airport Hanger

10. Concert Hall

11. Missiles Storage

12. Telecommunication Facilities

More to come...

I. Early-Stage Fire Detection

1 Latent Phase **2** Growing Phase **3** Fully Development Phase **4** Decay

Heat Release Rate

Sprinkler

Photo-Electronics Smoke Detector

Early stage alarm
VFDS

Smoke

Flame

Time

Performance-Designed for Specific Hazard

II. Visual Alarm Verification

Flame

Smoke

To see is to detect !
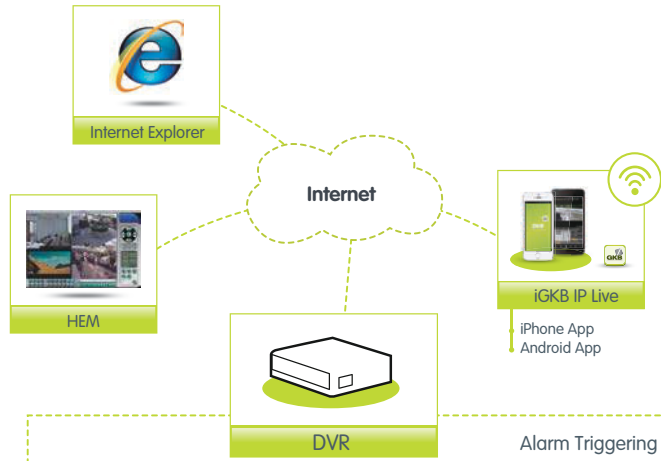Saving Verification Cost!

III. Wide Open & Towering Space Detection

No solution cost effiective for outdoor but **VFDS** !
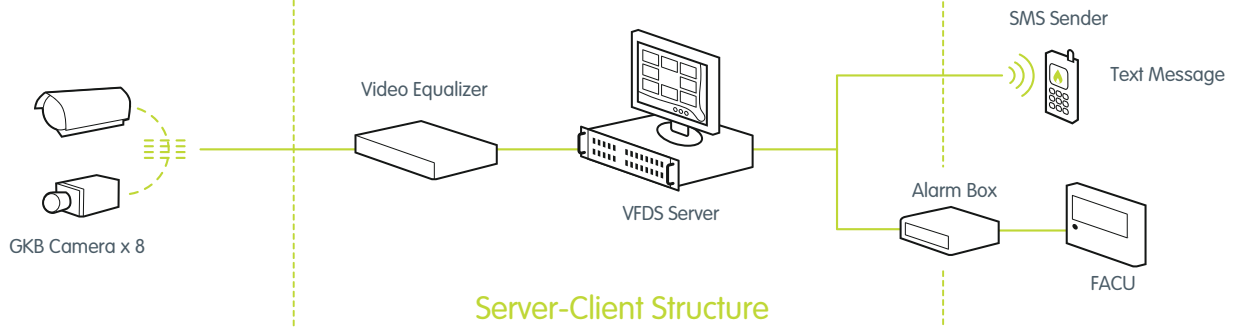
IV. Excessive Ceiling Space Detection

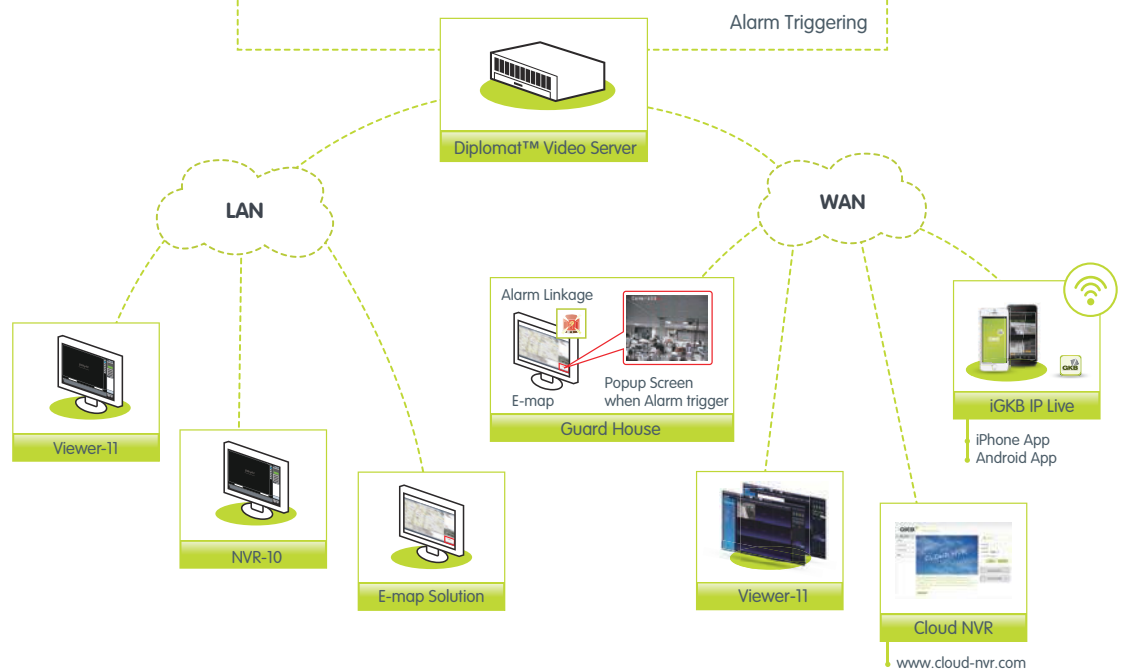Better Performance in Extremely-High indoor space than any other conventional detectors !

• VFDS™ DVR Solution

Internet Explorer

Internet

iGKB IP Live

HEM

iPhone App
Android App

DVR

Alarm Triggering

• VFDS™

SMS Sender

Text Message

Video Equalizer

Alarm Box

VFDS Server

FACU

GKB Camera x 8

Server-Client Structure

• VFDS™ IP Solution

Alarm Triggering

Diplomat™ Video Server

LAN

WAN

Alarm Linkage

iGKB IP Live

E-map   Popup Screen
            when Alarm trigger

iPhone App
Android App

Guard House

Viewer-11

NVR-10

E-map Solution

Viewer-11

Cloud NVR

www.cloud-nvr.com

Specification:

VFDS™ Server

	Management Setting		Administrator / General User
	Detection	Event	Flame, Smoke and Video Loss
		Speed	15 seconds/Flame, 35 seconds/Smoke
	Video	Input	8 channel(NTSC/PAL)
		Compression	MPEG 4/JPEG
		Resolution	320 * 240 pixels
	I/O Interface	USB	6 ports (2 front ports; 4 back ports)
		PS/2	1 parts for keyboard; 1 port for mouse
		Audio out	1 port for audio line
		VGA	1 port for monitor output
		RS - 232	1 port for message box
		Min. Resolution	1280 * 1024 pixels
		Miscellaneous	9-pin D-sub opening reserved (*1)
	Operating Ambience	Temperature	0 ~ 40°C (32 ~ 104°F)
		Humidity	0 ~ 85% @ 40°C
		Vibration (5 ~ 500Hz)	1G
		Shock	10G (w/ 11 ms duration, half sine wave)
	Power	Supply	110V ~ 220V AC
		Consumption	150 W
	Storage		250GB - 3.5" SAS/SATA HDD * 1
	Internet Transmission		10M/100M, support RTP/IP, UDP/IP, TCP/IP
	Cabinet		2U case
	Dimension		482(W) * 88(H) * 480(D) mm
	Weight		10.7 kg (23.5 lb)

VFDS™ Video Equalizer

	Display frame		NTSC 30fps / per channel
	Video	Input	8CH BNC, Vp-p ≧ 0.3V 75Ω
		Output	8CH BNC, 0.95V 75Ω < Vp-p < 1.05V 75Ω
	Power	Supply	AC 120V /220V
		Consumption	6W max.
	Operating Ambience	Temperature	0 ~ 49°C (32 ~ 120°F)
	Dimension		270(L) * 164 (W) * 57 (H) mm
	Weight		2.2 kg

VFDS™ Alarm box

	Alarm	Input	8 ports/ fire alarm, 8 ports/ smoke alarm, 8 ports / video loss & 3 ports / spare use
		Communication Port	50-pin male ribbon-cable connector
		Type	Sound alarm, Digital alarm (SMS & MMS)
		Output (Dry Contact Point)	Fire Alarm Control Unit
	Power	Input	DC 5V < 700 mA, 50-pin box header
		Consumption	3.5W Max.
	Operating ambiance	Temperature	0 ~ 40°C
		Humidity	0 ~ 85%RH
	Dimension		105(L) * 238.6(W) * 37(H) mm
	Weight		0.72 kg

ACHQ-8917DVF	ACHQ-8986S(8)	GKB 3818
Weatherproof Camera with Infrared and Varifocal Auto-Iris Lens	High Resolution Box Camera with On-Board OSD	Effio-V 700TVL BOX Camera
• Indoor / Outdoor application • Infrared for night use (optional) • Preventing reflection of light with protective glass (optional) • Allowing operation at temperature between -40°C ~ +60°C with embedded heater (optional)	• Indoor application • Basic surveillance needs	• Double shutter WDR • 700TVL Resolution • 3D Noise Reduction • Defog