Smart Flame Detection Solution

Delicate flame detection / Prompt alarm notification / Push alarm to smart phone

WEBGATE

Catch the fire !

Alarm output: Siren

CCTV monitoring center

Smart phone Push alarm

Network

Features

• Full HD fire detection CCTV solution
– 1/3″, 2.1Megapixel, Full-HD camera built-in CMOS sensor
– 4/8/16ch HD recorder(DVR, NVR) package provided, supporting HD1080p 30fps at each channel

• Quick & accurate flame detection
– Minimizing false alarm by detecting flame wave with two separate IR sensors
– Penetration rate improved and sensitivity of sensor maximized by applying special glass
– Immediate flame detection within seconds after fire breaks out
– With dedicated flame detection sensor, false report minimized in comparison with other software solutions

• Smart recording & search by flame detection event
– Fire alert by audio alarm and by live pop-up on DVR screen
– Supporting pre-alarm recording prior to flame detection
– Supporting smart search as instant search/playback only for flame detection event

• Supporting long-distance transmission of HD image by max. 400m through coaxial cable (EX-SDI)

• Live remote-alarm
– In the presence of flame, immediate live alarm (CMS pop-up, audio alarm) transmitted to administrator's PC(CMS) in remote through network
– Live push alarm through smart phone application(android, IOS)

• Optimal set-up according to user environment
– Flame detection sensitivity customized by user environment
– Flexible control for flame detection and alarm duration time
– For PoC(Power of Coax) solution, power supplied on camera from DVR through coaxial cable and all menu set-up supported
– For Non-PoC camera, camera menu set-up supported through RS485

• Various solutions provided for user convenience
– DVR solution: HD-SDI / EX-SDI / HD-TVI
– NVR solution: flame detection IP camera

• Convenient installation for camera
– Convenient installation by integrated structure of bracket housing with IP66 dustproof/waterproof

The best solution for places vulnerable to fire

National heritage and monument

Museum

Plant

Warehouse

Incinerating facility

Electric/Mechanical facility

Day care center

Hospital/Health care facility

Product Specification

Model names		C1080PBL-F2	C1080BL-F2-IP
FLAME DETECTION			
Detection sensor	Sensor	Detection using 2 kinds of IR Sensors	
	Detection distance & Angle	30m / 90˚	
	Sensitiviy	Adjustable within 10 steps	
	Detection time	5, 10, 15 sec	
	Action time	Keep on, 30, 40, 50, 60 sec	
VIDEO			
Video Sensor		1/3", 2.1Megapixel CMOS	
Sensor Pixels		1920(H) x 1080(V) = 2.1M pixels	
Scanning System		Progressive Scan	
Min. Illumination	BW	0.0005Lux@50IRE, F1.6, 3100K, DSS(OFF), AGC(10)	
	Color	0.2Lux@50IRE, F1.6, 3100K, DSS(OFF), AGC(10)	
Lens	Optical Filter	True Day & Night (ICR)	
	Type, Focal Length, F No.	DC Iris, 2.8~11mm, F1.6, IR Corrective Megapixel Lens	
Video Output	Output port	1 BNC, 1.0 Vp-p, 75Ω	Network (10/100Base-T), RJ45 connector
	Resolution	1080p 30/25fps, 720p 30/25fps	
	Video Format	HD-SDI (SMPTE 292M compatible) or EX-SDI Selectable	H.264(MPEG4 AVC) / MJPEG / MPEG4
	Transmission Distance	HD-SDI: Max. 200m(650ft) via 5C-HFBT cable EX-SDI: Max. 400m(1,200ft) via 5C-HFBT cable	Max. 100m without HUB
Camera	Control Methods	OS menu, DVR (Supporting remote control via CoC), CMS (Control center)	Browser, CMS (Control center)
	AGC	1 ~ 10 steps	
	Mirror	Horizontal / Vertical	
	WDR	OFF, 1 ~5 steps	
	BLC	OFF, LOW, MIDDLE, HIGH	
	ACE	OFF, ON	
	DNR	OFF, LOW, MIDDLE, HIGH	
	DSS	OFF, Auto, x2 ~ x10 steps	
	White Balance	AUTO, PRESET, MANUAL	
	Electric Shutter	INDOOR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR, MANUAL (12 steps)	
	D-ZOOM	0 ~ 16 steps	
	ANTI-FLICKER	OFF, ON	
	Lens Shading	OFF, ON	
	HLC	0 ~ 10 steps	
	DE-FOG	OFF, ON (Auto / Manual)	
	Privacy Masking	OFF/ON (15 Zones)	
CONTROL INTERFACE			
Control		CoC(Control over Coax), Wired remote controller, DVR & CMS	CMS(Ethernet)
ELECTRICITY			
Power Consumption		PoC (Power over Coax) DC24V +/-10%, 6W	DC12V / 1A / PoE(IEEE802.3af)
MECHANICAL			
Dimension		107(W) x 123(H) x 235(D) mm	
Weight		Approx. 1,600g	
ENVIRONMENTS			
Operation Temp. / Humidity		-10℃ ~ 50℃ / 0%RH ~ 80%RH	
CERTIFICATIONS			
Certifications		CE, FCC, KC	