WEBGATE

CCTV Surveillance and *Flame Detection* **SIMULTANEOUSLY !!**

SMART FLAME DETECTION CAMERA

Full-HD video	**Customized Sensor**	**Special Glass**	**Sensitivity Control**
High-quality Surveillance	**Accurate Detection**	**Maximizing Distance**	**Environment Optimization**

Helps suppressing fire damage at early stage leading to less damage of life and property, Fire detection made more accurately and rapidly with *customized flame sensor* !!

Smart Flame Detection Camera, with WEBGATE's specialized in-house technology, can detect wavelength of fire or flame to recognize actual fire or flame then it notifies user of fire alarm to help suppressing fire at it's early stage.
Contrary to other general flame cameras which only detect the shape and color of flame through image analysis, Smart Flame Detection Camera drastically minimizes false alarm by using special flame detection sensor.
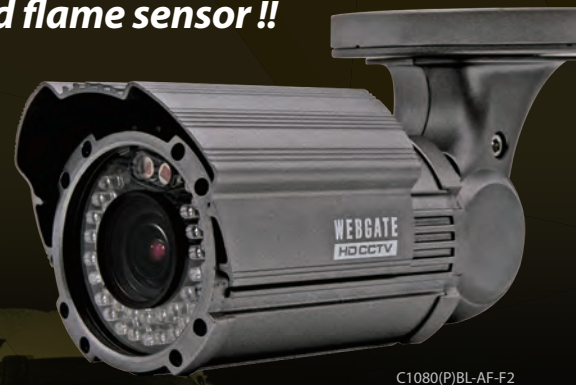
C1080(P)BL-AF-F2

Flame detection result based on sensing method / environment

Sensing method / Sensing environment	**Object recognition** Detecing the shape and the color of flame	***Flame detection sensor** Detecting wavelength of flame
Fire in daytime	**Depending on sensing condition**	**Detection (Normal)**
Fire in night	**Fault detection**	**Detection (Normal)**
Similarity objects	**Fault detection**	**No detection (Normal)**

Korean Intellectual Property Office | No. 10-1709919 | No. 10-1731995

Demo Video

Diagram of real-time flame detection solution

Real-time surveillance (CCTV) → Flame detection → DVR / NVR → Push alarm → Network → Remote / Mobile alarm

Occurrences 1,298,000   Loss of life 19,050   Property damage $11.6 billion

Severe damage from fire, it is not just someone else's business

Reference : USFA "Fire loss in the United States (2005-2014)"
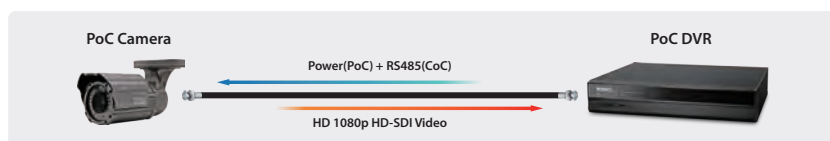
SMART **FLAME DETECTION CAMERA**

Korean Intellectual Property Office

No. 10-1709919
No. 10-1731995

Specification

CAMERA TYPE		Bullet Camera / Non-PoC	Bullet Camera / *PoC	Mini Bullet Camera / Non-PoC
Model		C1080BL-AF-F2	C1080PBL-AF-F2	C1080BL-F1
Appearance				
DETECTION SENSOR				
Flame Detection	Sensor	Detection using 2 kinds IR Sensors		Detection using a dedicated IR Sensors
	Detection Distance & Angle	30m / 80°		30m / 80°
	Sensitivity	Adjustable within 10 steps		Adjustable within 10 steps
	Detection Time	3, 5, 10 sec		3, 5, 10 sec
	Action Time	Keep on, 20, 30, 40, 50, 60 sec		Keep on, 20, 30, 40, 50, 60 sec
	Alarm Notification	Alarm signal transmission via Coax Cable	Alarm signal transmission via Coax Cable	Alarm signal transmission via Coax Cable
		Alarm Message on video	Alarm Message on video	Alarm Message on video
		Digital Output		Digital Output
VIDEO				
Video Sensor		1/3", 2.1Megapixel, CMOS		1/3", 2.1Megapixel, CMOS
Sensor Pixels		1920(H)×1080(V)=2.1Megapixel		1920(H)×1080(V)=2.1Megapixel
Scanning System		Progressive Scan		Progressive Scan
Min. Illumination	BW	0.0005Lux@50IRE, F1.4, 3100K, DSS(OFF), AGC(10)		0.0005Lux@50IRE, F1.6, 3100K, DSS(OFF), AGC(10)
	Color	0.2Lux@50IRE, F1.4, 3100K, DSS(OFF), AGC(10)		0.2Lux@50IRE, F1.6, 3100K, DSS(OFF), AGC(10)
Lens	Optical Filter	True Day & Night (ICR)		True Day & Night (ICR)
	Type / Focal Length	DC Iris, IR Corrective Megapixel Lens / 2.8~11mm, F1.4		Fixed Megapixel Lens / 3.6mm
Video Output	Output Port	1 BNC, 1.0 Vp-p, 75Ω		1 BNC, 1.0 Vp-p, 75Ω
	Resolution	1080p 30/25fps, 720p 30/25fps		1080p 30/25fps, 720p 30/25fps
	Video Format	HD-SDI or EX-SDI Selectable		HD-SDI or EX-SDI Selectable
		(SMPTE 292M compatible)		(SMPTE 292M compatible)
	Output Method	HD-SDI, EX-SDI		HD-SDI, EX-SDI
Camera	AGC	0~10 steps		0~10 steps
	Mirror	Horizontal / Vertical		Horizontal / Vertical
	WDR	OFF, LOW, MIDDLE, HIGH		OFF, LOW, MIDDLE, HIGH
	BLC	OFF, LOW, MIDDLE, HIGH		OFF, LOW, MIDDLE, HIGH
	ACE	OFF, LOW, MIDDLE, HIGH		OFF, LOW, MIDDLE, HIGH
	DNR	OFF, LOW, MIDDLE, HIGH		OFF, LOW, MIDDLE, HIGH
	DSS	OFF, AUTO, x2~x32		OFF, AUTO, x2~x32
	White Balance	AUTO, AUTOext, PRESET, MANUAL		AUTO, AUTOext, PRESET, MANUAL
	Electric Shutter	INDOOR, OUTDOOR,		INDOOR, OUTDOOR,
		INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR,		INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR,
		MANUAL, FLICKER		MANUAL, FLICKER
	D-ZOOM	OFF, x1~x16		OFF, x1~x16
	Lens Shading	OFF, ON		OFF, ON
	HLC	0~20 steps, Color		0~20 steps, Color
	De-fog	OFF, ON (Auto/Manual)		OFF, ON (Auto/Manual)
	Privacy Masking	OFF / ON (18 Zones)		OFF / ON (18 Zones)
CONTROL INTERFACE				
Control		RS-485, Wired remote controller, DVR & CMS	*CoC, Wired remote controller, DVR & CMS	RS-485, OSD Button, DVR & CMS
LIGHT				
IR Light Source		IR-LED 36EA		IR-LED 24EA
ELECTRICITY				
Power Consumption		DC12V±10%, 5W or AC 24V±10%, 8W	DC24V±10%, 6W	DC12V ± 10%, 4W
MECHANICAL				
Dimension		120(W)×140(H)×254(D) mm		60(W)×60(H)×164(D) mm
Weight		Approx. 1,600g		Approx. 450g
ENVIRONMENTS				
Operation Temp. / Humidity		-10 ℃ ~ 50 ℃ / 0%RH ~ 80%RH		-10 ℃ ~ 50 ℃ / 0%RH ~ 80%RH
CERTIFICATIONS				
CERTIFICATIONS		CE / FCC / KC		CE / FCC / KC

Tech

PoC Camera

Power(PoC) + RS485(CoC)

HD 1080p HD-SDI Video

PoC DVR

* PoC (Power over Coax)
· Cameras can be powered by PoC DVR through coaxial cable
· No need to install power for camera separately

* CoC (Control over Coax)
· DVR can control camera through coaxial cable
· Supports OSD menu, Zoom/Focus control, F/W upgrade

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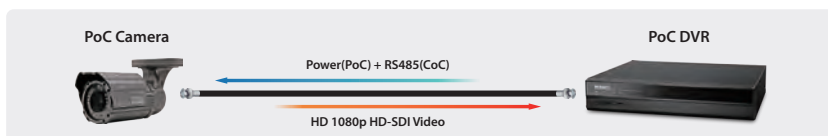
SMART FLAME DETECTION CAMERA

Korean Intellectual Property Office
No. 10-1709919
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Specification

CAMERA TYPE		Bullet Camera / IP	Dome Camera / Non-PoC	Dome Camera / *PoC
Model		N1080BL-AF-F2	C1080D-F1	C1080PD-F1
Appearance				
DETECTION SENSOR				
Flame Detection	Sensor	Detection using 2 kinds IR Sensors	Detection using a dedicated IR Sensors	
	Detection Distance & Angle	30m / 80°	30m / 80°	
	Sensitivity	Adjustable within 10 steps	Adjustable within 10 steps	
	Detection Time	3, 5, 10 sec	3, 5, 10 sec	
	Action Time	Keep on, 20, 30, 40, 50, 60 sec	Keep on, 20, 30, 40, 50, 60 sec	
	Alarm Notification	Alarm signal transmission via Coax Cable / Alarm Message on video / Digital Output / E-Mail, FTP upload, Alarm Push	Alarm signal transmission via Coax Cable / Alarm Message on video / Digital Output	Alarm signal transmission via Coax Cable / Alarm Message on video
VIDEO				
Video Sensor		1/3", 2.1Megapixel, CMOS	1/3", 2.1Megapixel, CMOS	
Sensor Pixels		1920(H)×1080(V)=2.1Megapixel	1920(H)×1080(V)=2.1Megapixel	
Scanning System		Progressive Scan	Progressive Scan	
Min. Illumination	BW	0.0005Lux@50IRE, F1.4, 3100K, DSS(OFF), AGC(10)	0.005Lux@50IRE, F2.1, 3100K, DSS(x32), AGC(10)	
	Color	0.2Lux@50IRE, F1.4, 3100K, DSS(OFF), AGC(10)	0.2Lux@50IRE, F2.1, 3100K, DSS(x32), AGC(10)	
Lens	Optical Filter	True Day & Night (ICR)	True Day & Night (ICR)	
	Type / Focal Length	DC Iris, IR Corrective Megapixel Lens / 2.8~11mm, F1.4	Fixed Megapixel Lens / 3.6mm	
Video Output	Output Port	1 BNC, 1.0 Vp-p, 75Ω	1 BNC, 1.0 Vp-p, 75Ω	
	Resolution	1080p 30/25fps, 720p 30/25fps	1080p 30/25fps, 720p 30/25fps	
	Video Format	HD-SDI or EX-SDI Selectable (SMPTE 292M compatible)	HD-SDI or EX-SDI Selectable (SMPTE 292M compatible)	
	Output Method	HD-SDI, EX-SDI	HD-SDI, EX-SDI	
Camera	AGC	0~10 steps	0~10 steps	
	Mirror	Horizontal / Vertical	Horizontal / Vertical	
	WDR	OFF, LOW, MIDDLE, HIGH	OFF, LOW, MIDDLE, HIGH	
	BLC	OFF, LOW, MIDDLE, HIGH	OFF, LOW, MIDDLE, HIGH	
	ACE	OFF, LOW, MIDDLE, HIGH	OFF, LOW, MIDDLE, HIGH	
	DNR	OFF, LOW, MIDDLE, HIGH	OFF, LOW, MIDDLE, HIGH	
	DSS	OFF, AUTO, x2~x32	OFF, AUTO, x2~x32	
	White Balance	AUTO, AUTOext, PRESET, MANUAL	AUTO, AUTOext, PRESET, MANUAL	
	Electric Shutter	INDOOR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR, MANUAL, FLICKER	INDOOR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR, MANUAL, FLICKER	
	D-ZOOM	OFF, x1~x16	OFF, x1~x16	
	Lens Shading	OFF, ON	OFF, ON	
	HLC	0~20 steps, Color	0~20 steps, Color	
	De-fog	OFF, ON (Auto/Manual)	OFF, ON (Auto/Manual)	
	Privacy Masking	OFF / ON (18 Zones)	OFF / ON (18 Zones)	
CONTROL INTERFACE				
Control		Wired remote controller, DVR & CMS	RS-485, DVR & CMS	*CoC, DVR & CMS
LIGHT				
IR Light Source		IR-LED 36EA	IR-LED 24EA	
ELECTRICITY				
Power Consumption		DC12V ± 10%, 7W or PoE(DC 36V~57V, 8W)	DC12V ± 10%, 4W	DC24V ± 10%, 4W
MECHANICAL				
Dimension		120(W)×140(H)×254(D) mm	100(W)×88(H)×100(D) mm	
Weight		Approx. 1,600g	Approx. 450g	
ENVIRONMENTS				
Operation Temp. / Humidity		-10 ℃ ~ 50 ℃ / 0%RH ~ 80%RH	-10 ℃ ~ 50 ℃ / 0%RH ~ 80%RH	
CERTIFICATIONS				
CERTIFICATIONS		CE / FCC / KC	CE / FCC / KC	
NETWORK & SOFTWARE				
Interface		1 Fast Ethernet RJ-45 port (10/100Mbps)		
Network Type		Fixed IP, DHCP		
DDNS		WRS, WNS, DynDNS, NO-IP		
Port		UPnP auto port forward / All CMS & HTTP service use only 1 network port		
Protocol		WESP, HTTP, RTSP/RTP, Onvif, TCP/IP, UDP, ARP, ICMP, DHCP		
Onvif Compliant		Onvif Profile-S		
Simultaneous Users		Monitoring: Max. 10 users		
Time Adjustment		NTP and Custom DST Support		
IP Address Filtering		10 IP address ranges		
Web Browser (Recommended)		IE 10 / Chrome 40 / Firefox 35 / Safari 5.1 / Opera 27 / IE: ActiveX based / Other browser: JPEG based		
Web Configuration		Multi-platform web config / Desktop (Mac, Linux, Windows) / Mobile (iOS, Android)		
PC CMS Software		Control Center Standard (bundle) / Control Center Pro		
Mobile Viewer		WebEye for iOS & Android		
NVR		WebGate's HS series Hybrid DVR		
Relay Server		WinRDS		
Event Source		Motion (8x8), Flame		
Event Action		E-mail Sending, Ftp Upload, Mobile Push Alarm, Relay (Digital Output)		

Tech

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