

TECHNOLOGY

Would Make Us Total R&D Company For Human Being

Moving Forward With Confidence

ISO 9001 & ISO 14001 REGISTERED



Aurora Global
AURORA Global Inc.

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Aurora Global Inc.

Creative R&D
Integration for Automotive Technology
Continuous Development for Application System
Would Make Us Total R&D Company for Human Being

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Introduction

With the continuous research & development and challenging spirit that will never fail, progressing toward to meet our objective, we will come to our customers with the latest and the most advanced technologies to help customers creating their values and enhance the quality of their future life.

In industrial facilities, in military facilities, in cultural assets, and even in oilfield plants; more rapidly, more accurately, and more securely, the cutting-edge technologies of Aurora Technology will always be there to guarantee the safety of our customers.

Even in the most extreme situations, the technology of Aurora system will not fail. The system will always be consistent, ensuring the safety of our customers.

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Flame Detectors



- Detecting fire with high sensibility**
Even a flame with length of about 2 cm can be detected within the range of 5 m. When the flame is bigger, the detectable range can be extended up to maximum of 50 m. This distinguished fire detecting sensibility allows Aurora system to be used very effectively in high-ceiling buildings, when coordinated with fire extinguisher system, quick and efficient fire termination will be made.
- Prompt fire detection and alarm**
If fire breaks-out, detecting process will take less than a second and will promptly set off the fire alarm. The alarm time can be adjusted depending on the circumstances.
- Accommodate with household information appliances**
With advantage of being smaller size than the existing products, the product is better matched up with surrounding appliances, when installed in average house and hotels, or etc, the product gives minimal effect to its surrounding interior.
- Communication function to be capable of individual monitoring**
 - Wire communication
 - Wireless communication
- Uses**
 - General use: house, apartment, building, department store, exhibition hall, theater, etc.
 - Industrial use: manufacturing facilities, oilfield facilities, oil-refinery facilities, cultural assets, vessels, airport, etc.
 - Military use: tank, armor, warship, aircraft, etc.

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Aurora system is the unique technology that is designed to detect fire by utilizing ultraviolet rays. By using the specialized algorithm, the system is able to recognize the specific range within the electronic spectrum; this algorithm allows the system to distinguish between the light energy source generated by a flame and ones that are generated by sunlight and/or the artificial light.

With detecting capability of viewing up to 120 deg(Max) both in horizontal(right and left) and vertical(up and down) angles and effective distance range of 50 m(Max), Aurora System is the suitable application for the industrial facilities and the commercial uses.

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Flame Detector Model

Selection of flame detector model
A100 - [] - [] - [] - []

Connection	
01	Normal (wire 600 mm)
02	Round Connector Type
03	300 mm wire + Connector RJ45 Connector
Electrical	
01	Normal(Contact)
02	Addressable(ZigBee -485)
03	Addressable(ZigBee Wireless)
04	(01: Normal + Waterproof
05	(02: RS-485) + Waterproof
06	(03: Wireless) + Waterproof
Detection wavelength	
A1	Only UV rays detection
A2	Only IR rays detection
A3	UV and IR rays both detection

Specifications

General specifications	Mechanical specifications
Detection wavelength: 250 nm(Ultraviolet rays)	Dimension: Ø94 mm x 35 mm
Approval sensing range: 30 m: n-Heptane fire (Max 50 m)	Materials: ABS resin
Approval sensing angle: 5 m: 2 cm flame	Weight: 160 g
Approval sensing angle: Ave. 100 deg(Up/Down and Left/Right)	
Detection time: Ave. 3 sec(Min. 1 sec)	Electrical specifications
Select: 1, 2, 3, 5, 10, 20 sec (Range)	Normal: 24 VDC(15~28 VDC)
Temperature(F): (Operation) -4~158(-20~70°C)	Option: 12 VDC(9~18 VDC)
Humidity(%RH): 0~95	16 AWG~26 AWG
	Wire: 1.22 mm ² ~ 0.15 mm ²

Output

A100 - A1 - 01/04	A100 - A1 - 02/05	A100 - A1 - 03/06
<ul style="list-style-type: none"> Contact Type Contacts standard: AC 250 V 1 A / DC 24 V 2 A Alarm signal: 30 second 	<ul style="list-style-type: none"> RS-485 Type Communication type: Half ID authorization: 1~255 Communication speed: 9600 bps, 19200 bps Communication distance: 1.2 Km(Max) 	<ul style="list-style-type: none"> Wireless(ZigBee) Type (including A100-A1-02/05 function) Communication type: Tree, Mesh ID authorization: 1~255 Communication distance: 30~300 m

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Fire Alarm System

AURORA can sense flame of 2 cm size

A cutting-edge fire alarm system searching for flame

Aurora system can detect flame at the time of fire break-out without being influenced by bright places, sunlight, and artificial light source, etc. This system can give an accurate and quick alarm when it detects the fire. When installed outdoor, it can even detect the initiation of the fire.

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Fire Alarm System Model

B100 - B1 - 2000

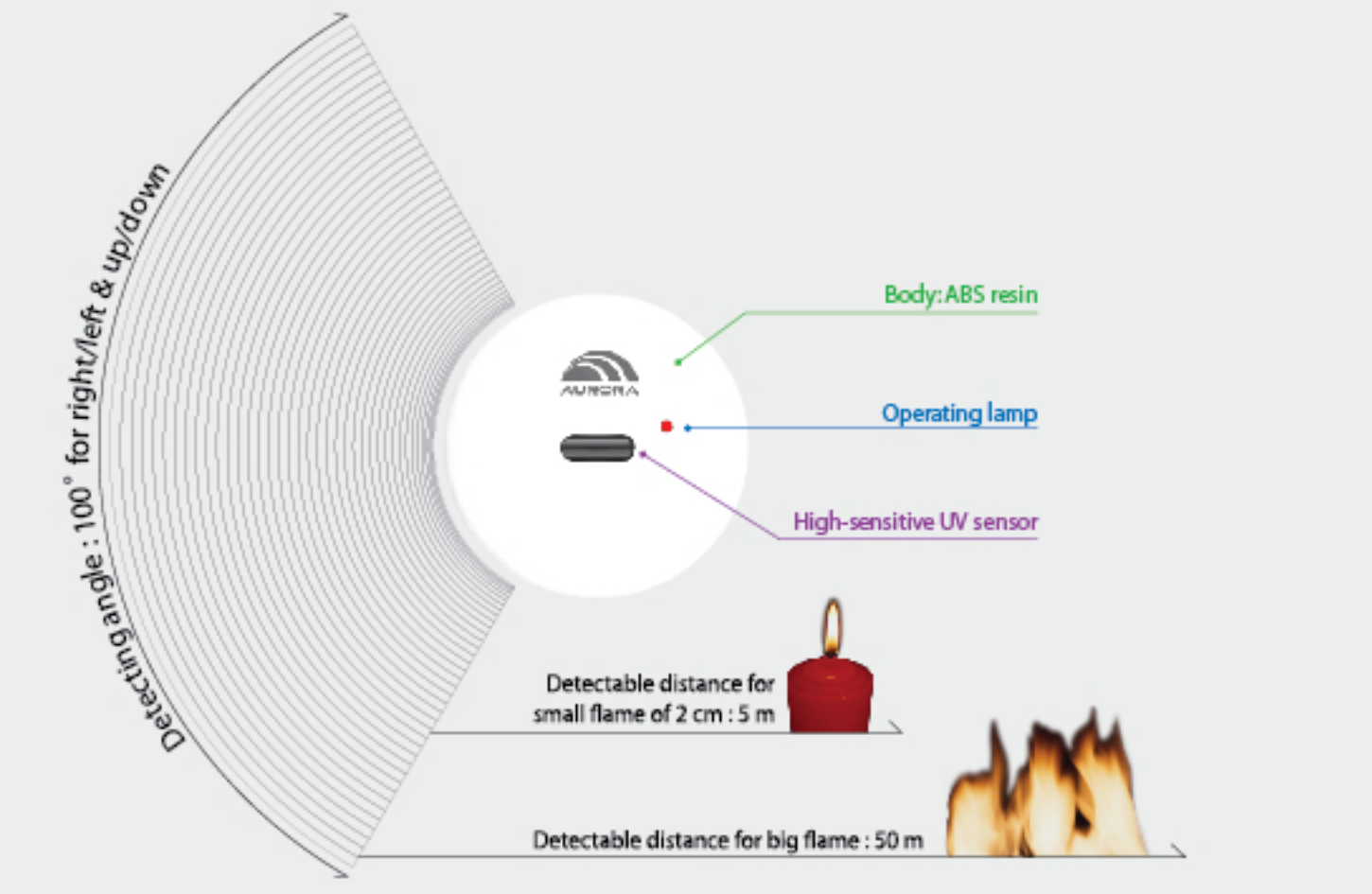
Item Specification Remarks		
Input power	AC 220 V Contact: AC 250 V 1 A / DC 24 V 1 A	8 Port
Alert output	RS-485	1 Port
	RS-485	1 Port
Detector input	Wireless(CDMA)	1 Port (Option)
	Ethernet(TCP/IP)	1 Port
Temperature(F)	DC 24 V(for Extinguisher)	24 Port(only B1-2000F)
	Contact	24 Port
Humidity(%RH)	RS-485	1~255 ID
	Wireless(ZigBee)	1~255 ID (Option)
Alert type	(Operation) 14 ~ 140(-10 ~ 60°C)	
	(Storage) 14 ~ 160(-10 ~ 75°C)	
Dimension(mm)	0 ~ 95	
Materials	Buzzer	
	253 x 323 x 72	
	ABS resin	

B100 - B1 - 100

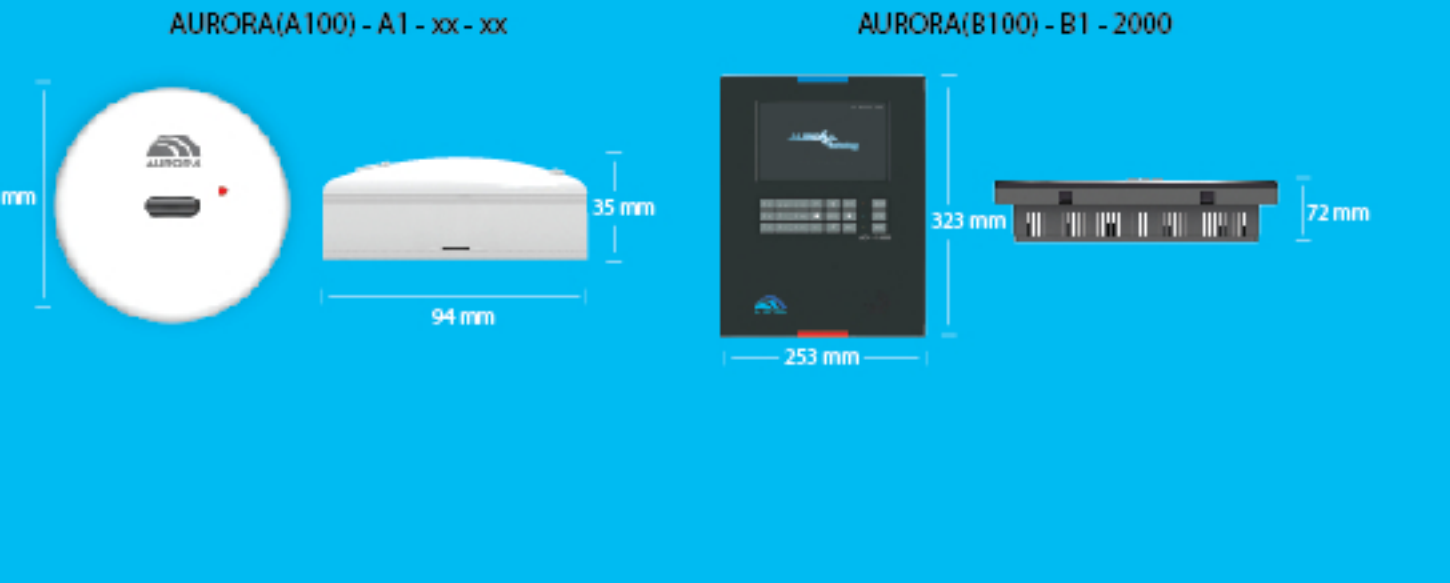
Item Specification Remarks		
Input power	AC 220 V Contact: AC 250 V 1 A / DC 24 V 2 A	2 Port
Alert output	RS-485	1 Port (Option)
	Ethernet(TCP/IP)	1 Port (Option)
Detector input	Contact	2 Port
	Wireless(ZigBee)	1~255 ID (Option)
Temperature(F)	(Operation) 14 ~ 140(-10 ~ 60°C)	
	(Storage) 14 ~ 160(-10 ~ 75°C)	
Humidity(%RH)	0 ~ 95	
Alert type	Buzzer	
Dimension(mm)	100 x 150 x 50(ABS resin)	
Materials	160 x 160 x 90(AI)	
	ABS resin / AI	

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AURORA SYSTEM Technology Summary



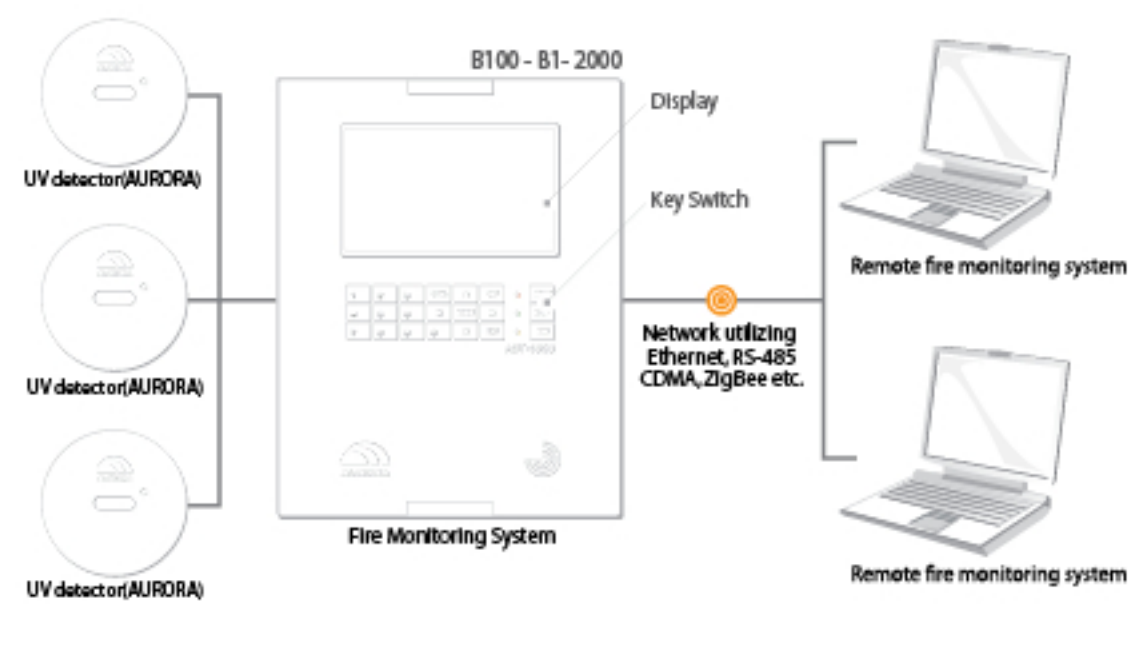
Dimension



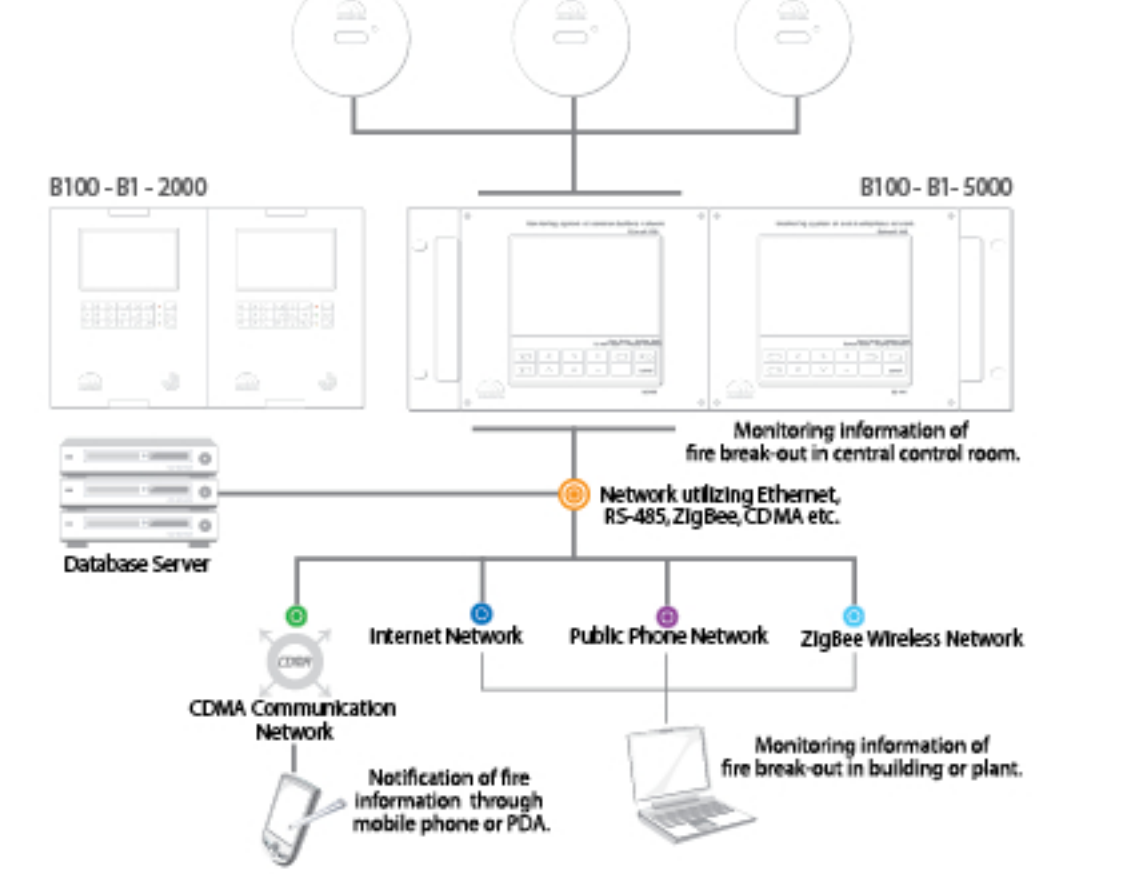
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Fire Alarm System

Small-scale Monitoring System



Large-scale Monitoring System



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Technologies of Aurora Systems
Aurora system detects ultraviolet rays existing only in flame of fire and uses it as signal source of fire alarm. If fire breaks out, the specific range of ultraviolet rays is emitted from the flame and Aurora System is developed to respond only to these ultraviolet rays; so that it can give the earliest fire alarm (within 1 second) at fire break-out and can minimize loss of life and material damage. Additionally, it is possible to establish remote monitoring system in case of its interlock with network system.

Features of Aurora System

- Not influenced by sunlight, light source of fluorescent lamp, artificial light source, etc.
- Detectable with initial flame (2 cm)
- Capability of early alarm (within 1 second) because of detecting flame in early stage of fire ignition
- Long-distance monitoring capability by built-in communication device and possible to form network.

Uses

- General use: house, apartment, building, department store, exhibition hall, theater, etc.
- Industrial use: Manufacturing facilities, oilfield facilities, oil-refinery facilities, cultural assets, vessels, airport, etc.
- Military use: tank, armor, warship, aircraft, etc.



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