



### ■ Features

- Dual IR sensing method reducing false alarms
- 12 to 25m long detection distance
- Max 100° wide detection angle
- OMNIVIEW™ 360° LED
- Flexible installation on ceiling or wall with an adjustable mounting bracket
- Compatible with EV-ZMU2 Zone Monitor
- Low standby current - Less than 130µA

### ■ Description

Recently, as markets adapt and develop, demand for Flame Detection have increased, and in particular the Nittan EVC-IR.

At Nittan, we understand the paramount importance of fire safety in any environment. The ultimate solution for detecting and preventing fires before they become devastating incidents.

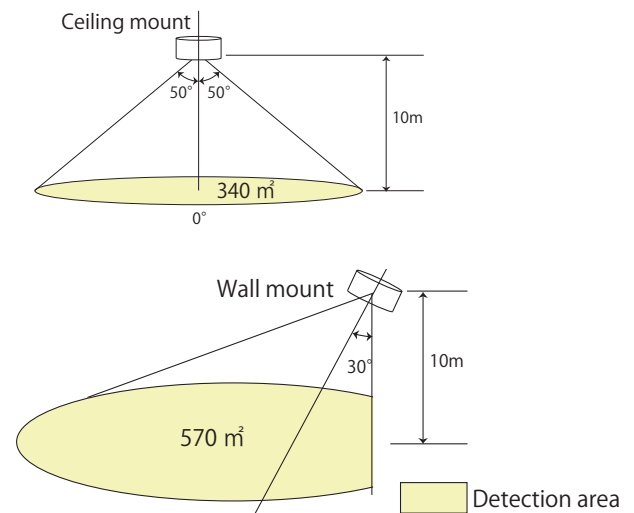
Engineered with the latest technology, EVC-IR surpasses traditional fire detection systems with its unparalleled accuracy and reliability. The EVC-IR uses Dual Wavelength and Flicker Frequency sensing techniques for maximum false alarm reduction and sensitivity to real flaming fires. Our advanced infrared sensing capabilities enable early detection of flame signatures, even in challenging environments with excessive background noise, dust, or other distractions.

We pride ourselves on seamless integration. EVC-IR effortlessly integrates with our comprehensive range of fire safety solutions, providing a robust and unified fire protection network tailored to your specific needs.

Rest assured, our flame detector is built to last. Rigorously tested and constructed with top-quality materials, it withstands even the harshest conditions, ensuring long-term reliability and peace of mind.

### ■ Applications

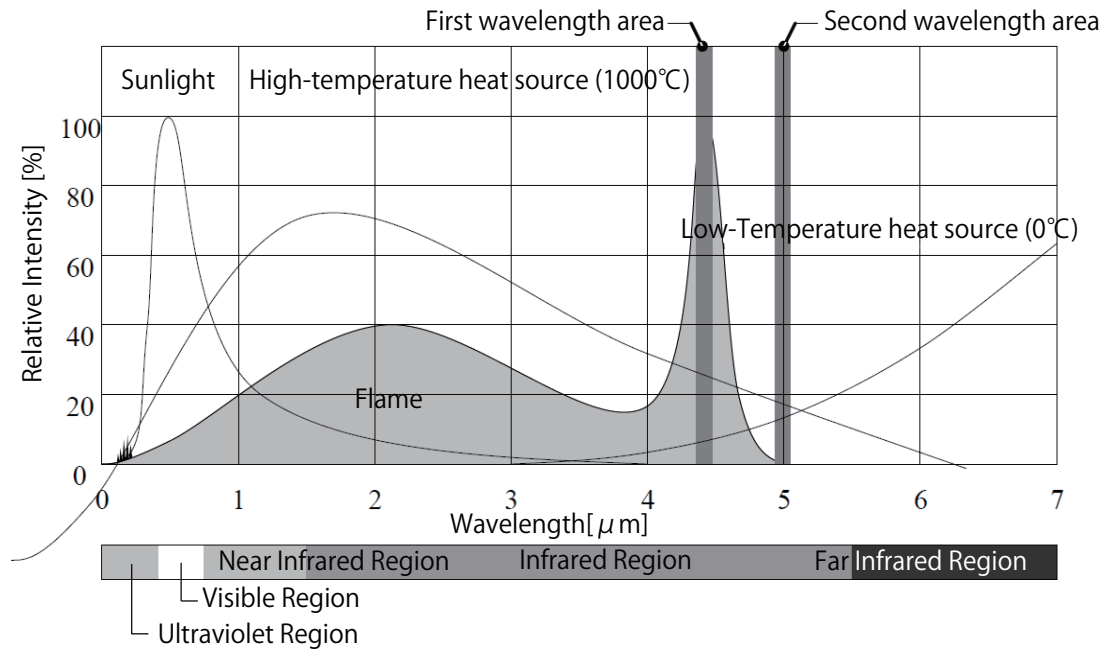
- Large space, high ceiling building
- Gymnasiums
- Atriums
- Theaters
- Warehouse
- Aircraft hangars
- Warehouse of hazardous materials, etc. (Excluding explosion-proof areas)



## ■ Dual Wavelength System

All of objects, which have temperature, emit the infrared radiation. However, the emitted from those objects do not have the characteristic spectral peak what the flame emitting infrared radiation has. The EVC-IR has two sensors and the second sensor is used to utilize those spectral peak differences to respond to fire. The infrared radiation emitted by object or flame is checked by the sensors and compared by next method to confirm real fire or not. The EVC-IR becomes alarm by flame when output of the first wavelength which is detected by the first sensor is larger than that of the second wavelength which is detected by the second sensor.

On the other hand, if the first wavelength level is less than the second wavelength level, the EVC-IR is not activated. By this method, the EVC-IR can discriminate whether the heat source is emitted by objects or flame, and it is possible to prevent from false alarm.



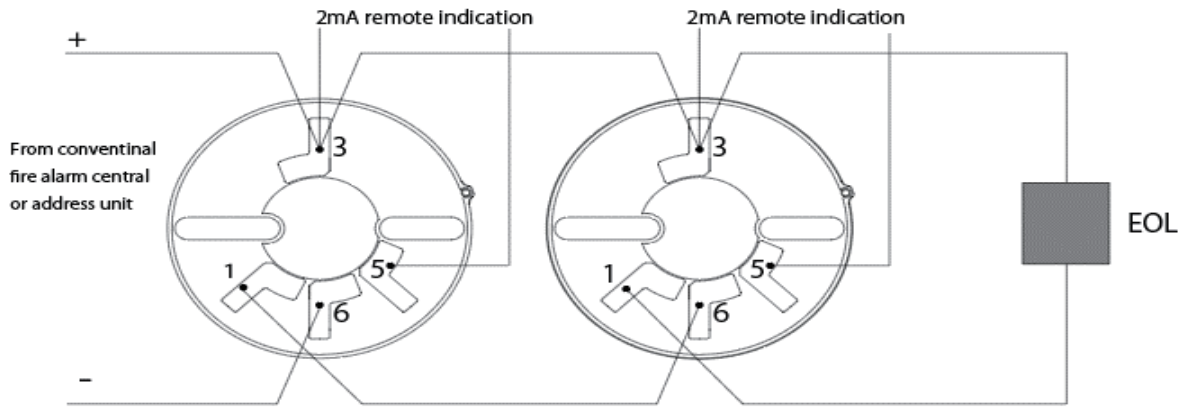
NOT TO BE USED FOR INSTALLATION PURPOSES.

Nittan reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.

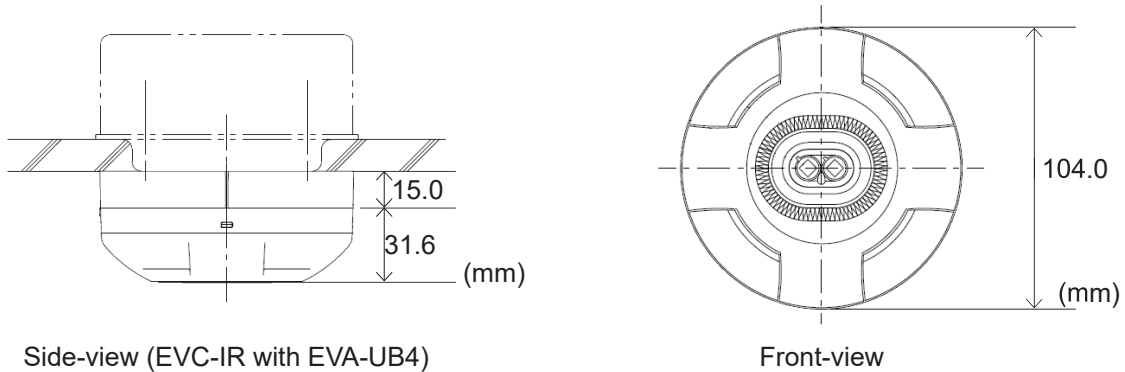
EVC-IR-DAT-00

Rev.0

## ■ Wiring Information



## ■ Dimension



## ■ Specifications

Specifications	EVC-IR
Part number	EVC-IR
Description	Conventional dual IR flame detector
Input voltage	DC24V
Standby current	<130 $\mu$ A
Alarm current	50mA @24V
Sensing length	12m - 25m
Sensor viewing angle	100°(±50°)
Alarm indicator	OMNIVIEW 360°
Sensing method	Dual infrared wavelength
Operating temperature	-25°C to +70°C
Relative Humidity	≤RH95% non-condensing
Material	ABS/PC alloy
Weight	186g(with Base)

## ■ Ordering Information



All specifications are subject to change without any notice.  
For more information, contact with NITTAN.

**NITTAN**

54-5, 1-chome, Sasazuka,  
Shibuya-ku, Tokyo151-8535, Japan  
TEL:81-3-5333-7021 FAX:81-3-5333-8615

Distributed By