

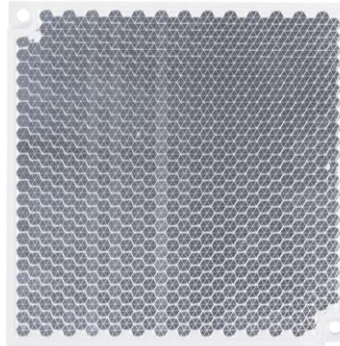
Fireray Hub Reflective



Overview

Overview

- Fireray Hub Reflective is the next iteration of the Fireray 5000
- This product combines FFE's Fireray One detector head with the benefits of a low-level controller
- Connect up to three Fireray Reflective detectors, on a single cable run

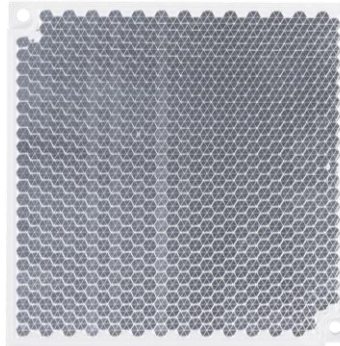
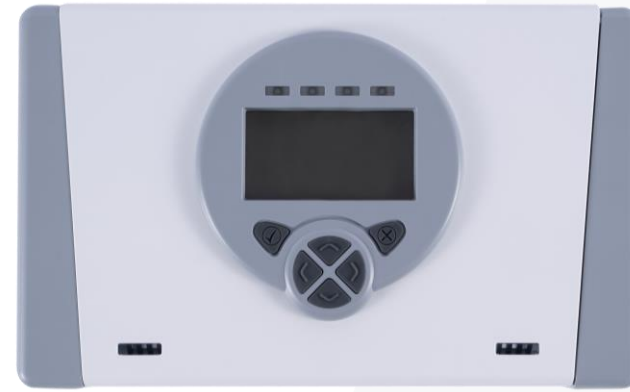




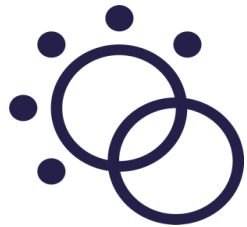
Product Features

Product Features

- Fireray Hub Reflective will launch in both EN and UL territories
- Fireray HUB Reflective utilises the same Detector as the Fireray One
 - One detector in the box
 - Up to two additional detectors can be connected (sold separately)
- FFE Reflective motorised beam technology
 - Auto-Alignment™
 - Building Movement Tracking™
 - Light Cancellation Technology™

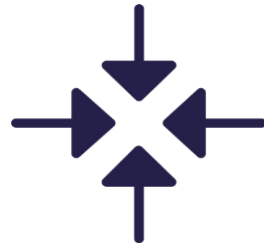


Product Features



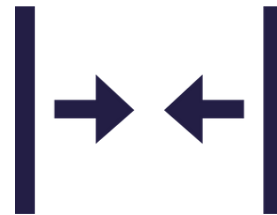
Light Cancellation Technology

Reduces false alarms caused by sunlight and artificial light sources



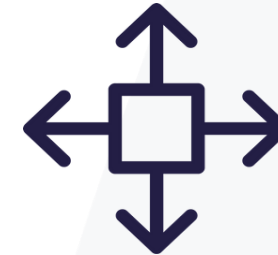
Auto-Alignment

Ensures precise alignment of the detector and the reflector in the optical path



Dynamic Beam Phasing

Install beams facing each other or in irregular configurations



Building Movement Tracking

Continuously maintains alignment when buildings settle or flex due to temperature changes



Dust Contamination Compensation

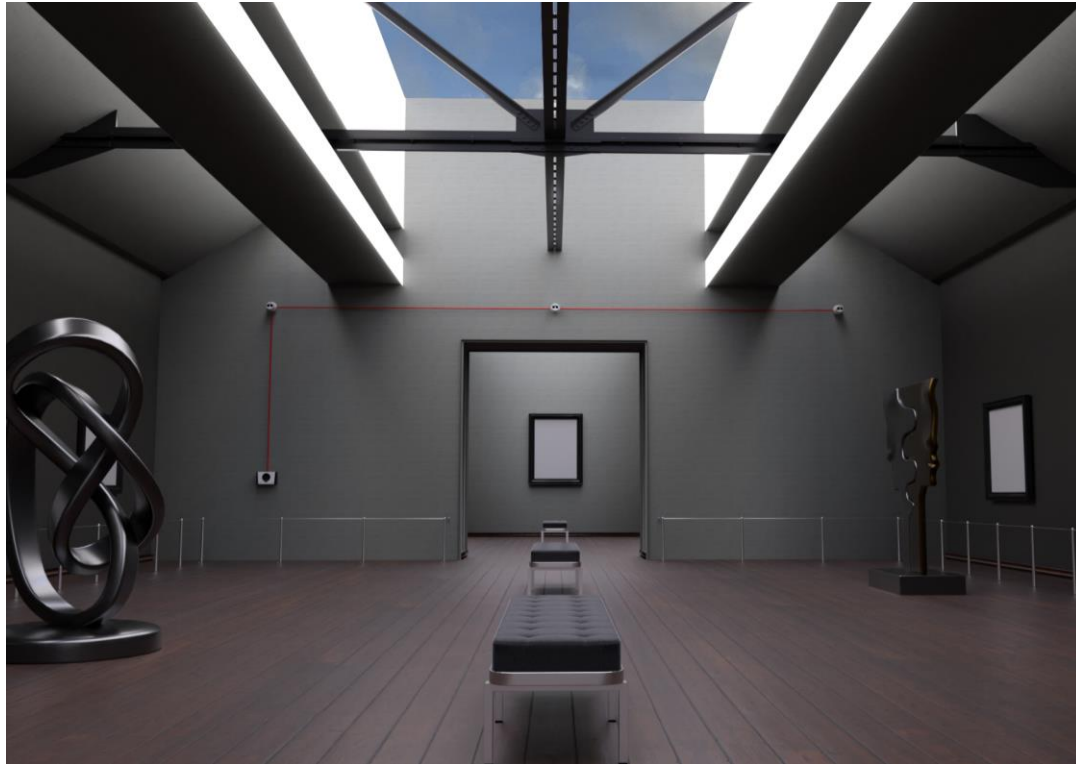
Automatically Compensates for dust build up over time.

Product Features

- Low-level controller features:
 - Backlit display for improved visibility in low-light installations
 - Date and time-stamped event log (up to 128 events per detector, 600 per controller)
 - Laser alignment control from the floor
- Flexible wiring options to suit all installations – Parallel and Network mode
 - Network mode allows the connection of up to three detector heads on a single cable run reducing the amount of cable and wiring required
 - Maximum cable length of 100m

Feature	Advantage	Benefit	Who
EN54 and UL268 approved	Suitable for the majority territories	A global product.	Distributor
Simple to install and easy to use	Quick to commission, by one person	Save time and money, less to go wrong.	Installer
Wire in Network or Parallel mode	Flexible wiring to suit all installations	Save time and money with less wiring	Installer
Back-lit low-level controller	Troubleshoot from the floor, in the dark.	Less need for expensive equipment and working at height	Installer / Maintainer
Fire and Fault log with time and date stamp		Identify any trends in false alarms due to time / temperature.	Maintainer
Fireray One technology	Proven to work with many years of testing in installations	Reliable product, fewer false alarms	Maintainer / Building Manager

Product Features



Network mode configuration



Parallel mode configuration

Beam Detector Comparison - FFE



Fireray 5000



Fireray Hub Reflective

Range	0-50m 50-100m	0-50m 50-120m
Integrated Laser	✓	✓
Max. Detectors per Controller	2	3
Event Log	✓	✓
Backlit Display	✗	✓
Persons Required to Install	2	1
Control System	Low-Level Controller	Low-Level Controller
Power Supply	14-36 VDC 5-8.5 mA	14-36 VDC 12.5-17.5 mA

Beam Detector Comparison - FFE (cont'd)

Beam Distance Comparison



8m to 100m (26' to 328')



8m to 120m (26' to 328')



5m-120m (16' to 328')





Technical Specification

Technical Specifications

- Fireray HUB Reflective is a direct replacement for Fireray 5000.
- Fireray HUB Reflective utilises the same Detector as the Fireray One bringing the benefits of:
 - Light Cancellation Technology
 - Motorised Laser Alignment
 - Building Movement Tracking
 - Automatic gain control
 - 2 ½ minute alignment per head
 - 120m detector coverage
- Low-level controller features:
 - Backlit display for improved visibility in low light installations
 - Date and time stamped event log (up to 128 events per detector, 600 per controller)
 - Laser alignment control from the floor
 - Daisy-chain detectors to reduce wiring



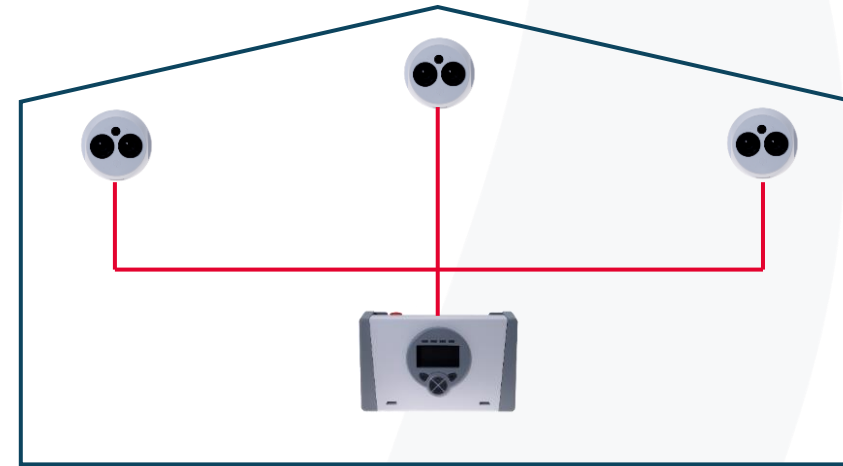
Technical Specifications (cont'd)

- Backlit display with clearer icons

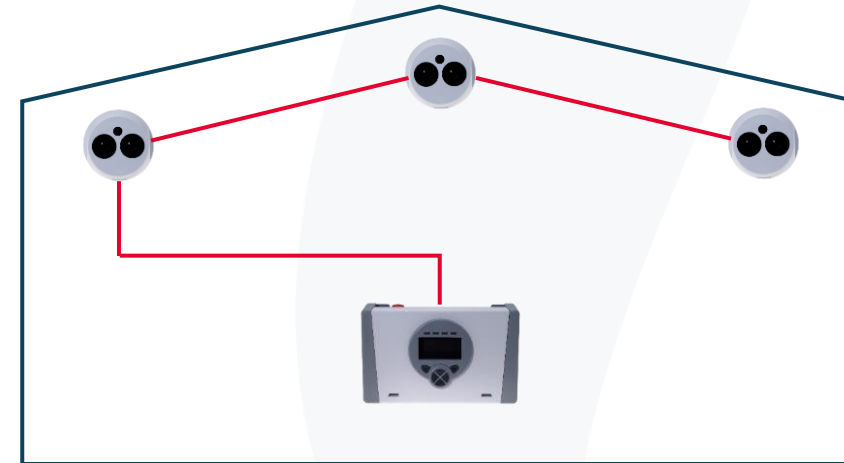


Installation

- Fireray Hub Reflective offers flexible wiring options to suit a variety of applications
- Wire the Reflective Detector Heads in Parallel mode, or
- Reduce wiring by chaining Reflective Detector Heads in Network mode
 - Wiring configurations allow a maximum cable length of 100m



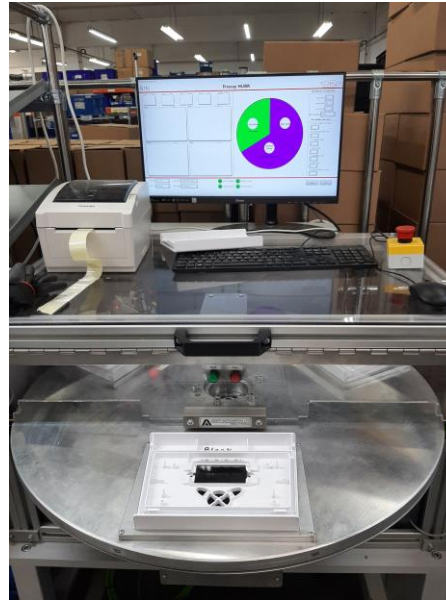
Parallel mode configuration



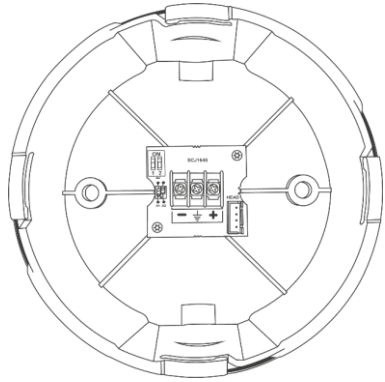
Network mode configuration

Testing

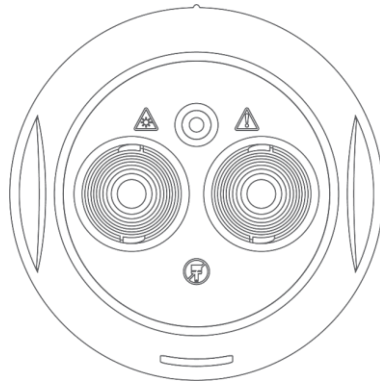
- Every Hub is rigorously tested
- The following checks are carried out by our production and quality teams:
 - Screen Icons are checked by a built-in camera
 - All button inputs
 - LED feedback
 - Serial numbers
 - Firmware
 - Final functional test is carried out to check power to the unit, basic functions and responses



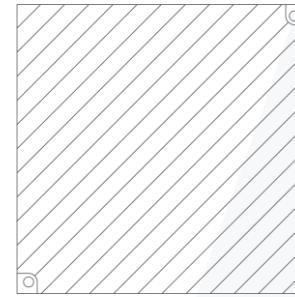
What's in the box



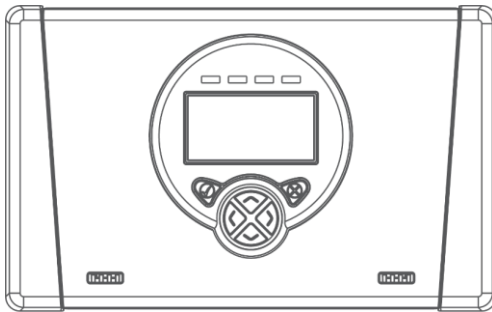
1 x Reflective Detector
Base



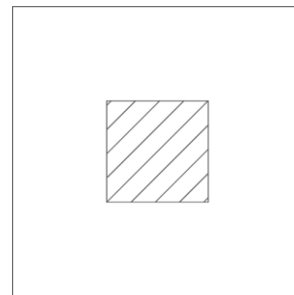
1 x Reflective Detector
Head



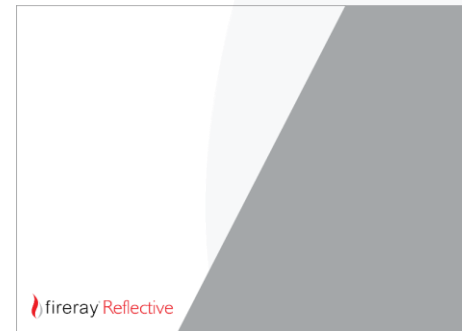
1 x Reflector



1 x Fireray Hub Reflective
System Controller



1 x Short Range Mask



1 x QR Code (EN) / User Guide
(UL)



Approvals

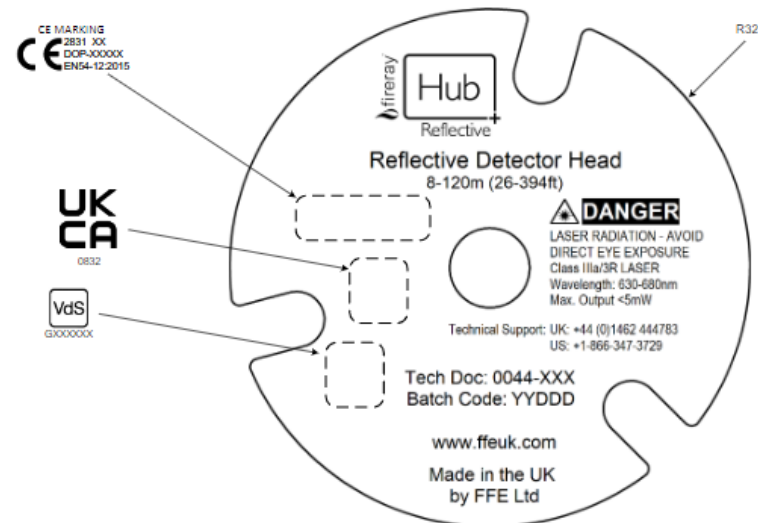
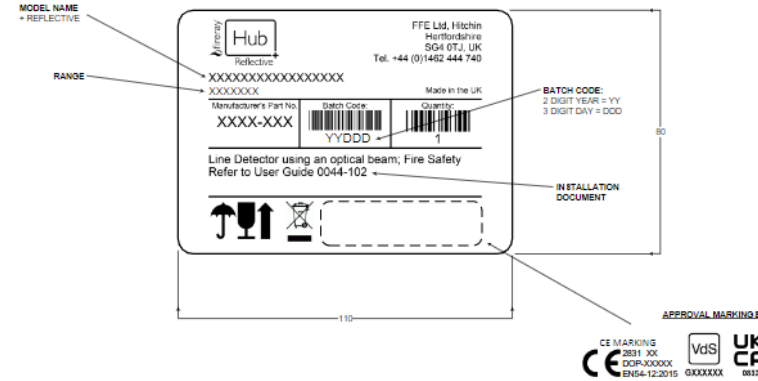
Approvals

• Core approvals

- Fireray HUB Reflective – EN
 - BRE (CPR, UKCA)
 - VdS
- Fireray HUB Reflective – UL
 - UL (estimated completion Dec 2024)
 - FM **TBD**

• Other potential approvals (based on customer demand)

- BOSEC (Belgium)
- CCCf (China)
- KFI (Korea)
- UAE
- US State Specific approvals (CSFM, MEA, Maryland, etc.)



A large, empty industrial warehouse with a high ceiling, steel trusses, and a polished floor. The word "Marketing" is overlaid in the center. The warehouse has a clean, modern appearance with a polished concrete floor that reflects the overhead lights. The ceiling is supported by a complex network of white steel beams and trusses. Several rectangular light fixtures are suspended from the ceiling, casting a bright, even light across the space. In the background, there are large windows with vertical blinds and a closed roll-up door. The overall atmosphere is one of a spacious, well-maintained industrial environment.

Marketing

Marketing Collateral

Brochure Update



Datasheet



QR Insert – EN User Guide - UL



**FIRERAY HUB REFLECTIVE [EN]
SYSTEM: 6020-100, DETECTOR: 6030-100,
CONTROLLER: 6080-100**

Scan QR code to access the User Guide.
Scannen Sie den QR-Code, um das Benutzerhandbuch aufzurufen.
Scansionare il codice QR per accedere alla Guida dell'utente.
Scannez le code QR pour accéder au guide de l'utilisateur.
Escanee el código QR para acceder a la Guía del usuario.



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User Guide

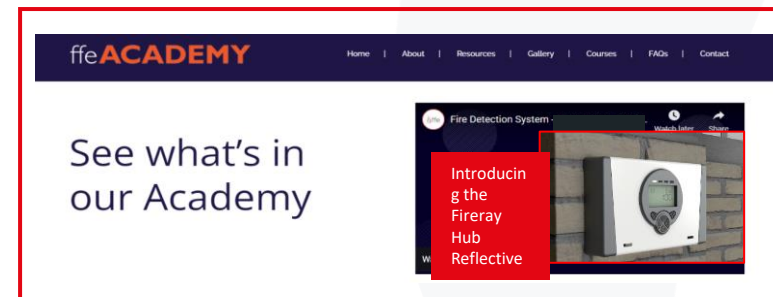
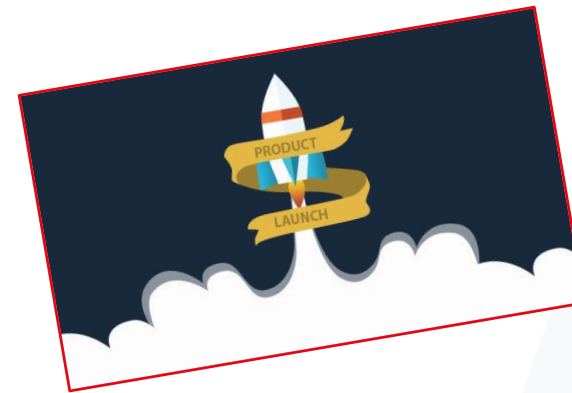
EN
Document No: 0044-102-02
www.ffeu.com

Imagery



FFE Communications

- Launch 2nd September 2024
- Website & Landing Pages - CTA
- SEO/Social Media
- Direct email campaigns
- Industry websites & Magazines
- Dual training with accredited industries, e.g. CPD/FIA
- Sales and Technical Support Training
- Sales Demo Kit Aug 2024
- Industry Events
- Webinars/Academy



*dates subject to change

PR, Press & Events

- **Press**

- Lead articles within key titles within EU territories
 - Press release of Fireray Hub Reflective
 - Press releases online for Q3 2024
 - Half page advertisement, editorial feature where available on FFE/Fireray brand

- **Events**

- IFSEC Europe Magazine – FPC
- Sicurezza - FPC
- Launch eBlast – product feature and benefits
- Case Studies

Social media posts covering publications on Fireray Hub Reflective can be communicated to the Sales teams.





Typical Applications

Airport Hangers



Shopping Malls



Historic Buildings



Warehouses & Manufacturing plants



Sports / Leisure Centres



Conference rooms, Atriums & Exhibition Centres





FFE

Specialist fire detection