



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 3323</b>	15-Apr-2019	Number 1	Issue date 15-Apr-2019	30-Apr-2020
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## Product designation

**AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system**  
(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Bosch Security Systems Pty Ltd  
Level 2, 21 Solent Circuit, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

## Registrant

Bosch Security Systems Pty Ltd  
Level 2, 21 Solent Circuit, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

### Producer

Bosch-Sicherheitssysteme GmbH  
Robert-Bosch-Platz 1, Gerlingen, Baden-Wurtemberg, GERMANY, D-70839

## Conformance criteria and evaluation

The AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. CSIRO Technical Specification TS010, Version 1: 4-Feb-2019, 'Conformity Verification of Video Fire Detection Systems'.

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Compatibility of this fire detector with new or existing control and indicating equipment should be verified prior to installation.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

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## Producer's description

The AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system operates as stand-alone unit and doesn't need a separate evaluation unit. It contains all features of the Intelligent Video Analytics which allows analysing and evaluating moving objects in parallel. Video-based fire detection and Intelligent Video Analytics operate independently from each other and are separately adjustable.

Video-based fire detection system provides fire detection for applications which are not subjected to construction product regulation or as supplementation to existing fire detection systems.

A 10/100 Base-T Fast Ethernet port on the back part of the device is available to connect the camera to Ethernet. This allows easy configuration and monitoring through network devices such as Client PCs or mobile devices. A video recording management system may be integrated optionally. Furthermore, there is a relay output to transmit alarm signals, e.g. to the FPA-5000 fire alarm panel. In this case the camera acts as supervisory signal-initiating device. Alarms have to be verified by an operator in a monitoring centre owing to non-existing standards. Automatic alarm-forwarding to fire services is not provided.

## Technical specification

The following details are a representative extract of the technical specification for the AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Description	Model/part ident.
AVIOTEC IP starlight 8000	FCS-8000-VFD-B
Varifocal SR Megapixel Lens	LVF-5005C-S4109   F.01U.297.770
TC9208 bracket	TC9208   F.01U.143.919

### Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

#### Ambient conditions

Operating temperature(by manufacturer)	-20°C...+50°C
Operating temperature (tested by VdS)	-10°C...+50°C
Storage temperature	-30°C...+70°C
Air humidity (operation)	20...93 % rel. Humidity
Air humidity (storage)	up to 98 % rel. humidity

#### Input / output

Analogue video output	SMB plug connector, VBS (PAL/NTSC), 1 Vss, 75 ohm
Audio line input	max. 1 Vrms, 18 kohm typical
Audio line output	0.85 Vrms at 1.5 kohm typical
Audio connectors	3.5 mm monaural jack
Alarm input	2 inputs
Activation of alarm input	+5 V DC nominal voltage; max. +40 V DC (direct current with 50 kohm pull-up resistance up to +3.3 V DC) (<0.5 V is low; >1.4 V is high)
Alarm output	1 output
Alarm output voltage	30 VAC or +40 VDC max. max. 0.5 A continuous duty, 10 VA (resistive load only)
Ethernet	RJ45
Data port	RS-232/422/485

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<b>Local memory</b>	
Internal RAM	10 s prealarm recording
Memory slot	supports microSDHC card up to 32 GB / microSDXC card up to 2 TB (for HD recording, SD cards of class 6 or higher recommended)
Recording	permanent recording, ring recording, alarm / event / scheduled recording

<b>Mechanical specifications</b>	
Dimensions (HxWxD)	78 x 66 x 140 mm (w/o lens)
Weight	855 g (w/o lens)
Colour	RAL 9006 white aluminium
Tripod mount	bottom and top 1/4 inch 20 UNC

<b>Network</b>	
Protocols	Pv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, noip. com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox, CHAP, digest authentication
Encryption	TLS 1.0, SSL, DES, 3DES
Ethernet	10/100Base-T, automatic detection, semi-/full duplex
Connection	ONVIF profile S, auto MDIX

## Supplementary information

### Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report	XF3092/R1	Evaluation for Conformity of the Aviotec IP Starlight 8000 FCS-8000-VFD-B video camera device for visual fire monitoring to the requirements of CSIRO-TS-010 Version 1.0	12-Apr-2019	CSIRO Fire Systems Laboratory, AU
Datasheet	18757245579   en, V21	Fire Alarm Systems   FCS-8000-VFD-B Video-based fire detection FCS-8000-VFD-B Video-based fire detection	27-Nov-2018	Bosch-Sicherheitssysteme GmbH, DE
Test Report No.	160275-AU02+MMF03-PB01	Detectors, Modules and Hold-Open Systems Test Report No. 160275-AU02+MMF03-PB01 on the testing of Video camera device for visual fire monitoring Type: Aviotec IP starlight 8000 FCS-8000-VFD-B	27-Oct-2017	VdS Schadenverhütung GmbH, DE