

EMERGENCY LIGHTING

FRANKCAS X3

Automatic testing and monitoring for emergency lighting

X3 runs the EN 62034 test calendar, watches every emergency fitting for faults and keeps the BS 5266-1 logbook for you. DIN-rail mounted, managed from any web browser, with an optional link to the iotfrankcas.com cloud.

EN 62034

BS 5266-1

DALI DT1

Tridonic sceneCOM



TWO WAYS TO CONNECT



X3 Direct

Direct onto the DALI line

- X3 runs the emergency DALI line itself. No other controller is needed.
- One DALI line, up to 64 short addresses (IEC 62386-202, DT1)
- Addresses new or re-used fittings, and switches off their own automatic tests
- Reads lamp, battery and circuit faults and battery charge



X3 sceneCOM

Tridonic sceneCOM evo via RJ45

- Adds automatic testing and reporting to an existing sceneCOM
- Live fault monitoring through the sceneCOM API (firmware v4 or later)
- Starts tests and reads each result from the sceneCOM test book
- Also reads Tridonic DALI-2 air-quality sensors on the sceneCOM

KEY FEATURES



EN 62034 test scheduling

Monthly function and annual duration tests run on X3's own calendar. Duration tests can run in batches, so part of every area stays charged.



PDF reports

Logbook reports for any period at the click of a button, and a weekly summary report sent by email.



Built-in web page

Live overview, floor plans, tests and reports from any browser on the site network. Secure https login, nothing to install, no cloud needed.



Air quality

With X3 sceneCOM, Tridonic DALI-2 air-quality sensors are shown too: temperature, humidity, CO₂, air-quality index and pressure.



Digital logbook

Every test result, fault, repair and user action is recorded with date and time, for the BS 5266-1 logbook.



Email alerts

Instant alerts for new faults and failed tests, test-complete reports, and a warning if contact with the lighting system is lost.



iotfrankcas.com cloud

Optional link to the FRANKCAS dashboard and mobile app: live status, remote tests and schedules, over an encrypted connection.



Built for 24/7

Boots from an NVMe SSD (no SD card). Hardware and software watchdogs, automatic restart, and settings backup and restore.

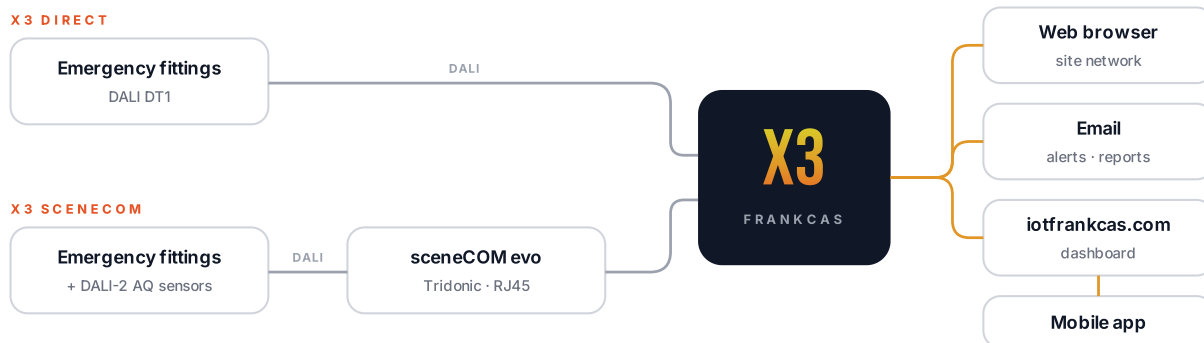


FRANKCAS X3

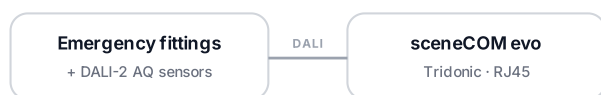
SYSTEM OVERVIEW & TECHNICAL DATA

HOW X3 FITS IN

X3 DIRECT



X3 SCENECOM



TECHNICAL SPECIFICATION

PLATFORM

Processor board	Raspberry Pi 5, 4 GB RAM
Storage	NVMe SSD (boot and logbook)
Software	Raspberry Pi OS Lite 64-bit + FRANKCAS X3, updated over the network

POWER & MECHANICAL

Supply	5 V $\pm$ 5 A (DIN-rail power supply)
Mounting	35 mm DIN rail (EN 60715)
Operating	0 to 50 °C, non-condensing, indoor use

INTERFACES

Ethernet	1 × Gigabit RJ45: office network / internet
USB	2 × USB 3.0, 2 × USB 2.0
X3 Direct	1 DALI line, up to 64 short addresses
X3 sceneCOM	Second Ethernet port (USB adapter) on the sceneCOM network

EMERGENCY LIGHTING

Standards	EN 62034 test system · BS 5266-1 logbook · IEC 62386-202 (DALI DT1)
Tests	Function test, duration test, stop; manual, scheduled or from the cloud
Monitoring	Lamp, battery, charging and communication faults; battery charge
sceneCOM	Tridonic sceneCOM evo, firmware v4 or later; number of controllers per licence

NETWORK & SECURITY

Web interface	HTTPS (port 443) with a per-unit certificate, or HTTP (port 80); password login
Cloud link	MQTT over TLS, port 8883, outgoing only
Email	SMTP with STARTTLS, e.g. Microsoft 365 or Gmail
Licence	Per unit, locked to the hardware. Unlicensed units run in demo mode.

CONFIGURATIONS

X3 Direct

X3 controller, connected straight to the DALI line. For sites with no lighting control system, or a dedicated emergency DALI line.

X3 sceneCOM

X3 controller and USB Ethernet adapter for the sceneCOM network. For sites that already have Tridonic sceneCOM evo. More sceneCOMs per X3 depend on the licence.

OPTIONS

- iotfrankcas.com cloud link: dashboard and mobile app
- Commissioning by FRANKCAS

Compliance



EU and UK declarations of conformity are available on request.

FRANKCAS Ltd

Lighting Control Systems
 Coventry, United Kingdom
frankcas.co.uk

FRANKCAS X3 ON SCREEN

OVERVIEW PAGE



The whole site at a glance

Live, animated widgets that refresh by themselves every few seconds.

- 1 System health** share of fittings with no fault.
- 2 Next scheduled test** live countdown to the next EN 62034 test.
- 3 Tests up to date** function (30 days) and duration (365 days).
- 4 Batteries** average charge and fittings fully charged.
- 5 Luminaire map** every fitting coloured by its live state.
- 6 Needs attention** faults and failed tests, named as they happen.

FLOOR PLANS

Every fitting on your own drawings

Upload the site drawings and drag each emergency fitting into place. Its live status shows on the plan.

- 1 Floors** one tab per drawing; a red badge counts its faults.
- 2 Place luminaires** drag fittings onto the drawing, on a PC or tablet.
- 3 Faults** glow red on the plan, so they are found on site at once.
- 4 Click a fitting** for status, battery and last test, or Identify to battery it.
- 5 Zoom and pan** for large site drawings.

JPG, PNG or PDF, as many floors as needed. Each page of a PDF can be its own floor. Drawings are kept on the X3, so **no cloud is needed**.

