

COBALT Spectrum

Airbus A320/A330 family aircraft with Classic/Enhanced CIDS

The original Plug-n-Play mood lighting system

Cobalt Aerospace's innovative drop-in mood-lighting system *Cobalt Spectrum* is designed from the ground up to meet the needs of commercial airlines delivering an unrivalled feature set and the very highest reliability.

Choose any color in any mode, ceiling or sidewall; Cobalt lighting units bring bright and beautiful lighting scenes to any cabin yet work just like the OEM system.

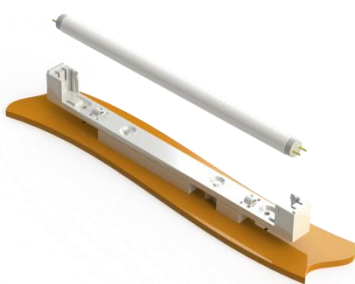
Flying with many of the world's flag carrier operators, *Cobalt Spectrum* is the original Full plug-n-play mood lighting solution.

Cabin lighting is essential in delivering comfort and well-being to airline passengers and crew. In the hierarchy of passenger needs, good lighting is the second most important factor in passenger comfort.



The easy upgrade

Fitting Cobalt Spectrum is simple. Just remove the old lighting units, fit new Cobalt lighting units and fly away. There are no changes to wiring, connectors, attendant panel controls or Airbus CAM. Installation is so quick it takes as little as 4 hours to fit a system to an A320 / B737 size aircraft.



1. Remove the old ballast unit



2. Fit Cobalt mounting brackets



3. Clip in the new lighting unit

Cobalt Spectrum is certified and available for all leading commercial aircraft types including Airbus and Boeing Narrow body plus many Wide body aircraft.

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Drop-in Mood Lighting

Cobalt's system comes with additional functionality thanks to our incredible patent pending *Virtual Light Modes (VLMs)*.

No other drop-in system has them.

As standard, most aircraft are equipped with a limited number of control modes (Bright, Dim, Off and so on).

Cobalt's VLMs give you additional modes which no other drop-in system can provide!



Rugged and beautiful

Cobalt lighting units are highly reliable. Service history shows a MTTF in excess of 250,000 hours.

And Cobalt's Patent Pending *Age Correction Technology* keeps light units looking stunning all their life.

Our tight calibration and smart algorithms mean that should you ever need a replacement lighting unit, it will simply plug in and provide a light wash consistent with the rest of the system that has already been in service.

Easy Color Selection

In order to help you select the right colors and modes for your fleet we can either come to you for an interactive 'on-wing' Color Clinic session or you can come to us for a customer color choice day in our in-house Color Clinic.

A section of aircraft fuselage is equipped with Cobalt lighting units, so you can explore the color options available.

You can then take the next steps in selecting your system with confidence.

To find out more and arrange for a demonstration, just get in touch!

Total installation package

Cobalt's system comes with a complete installation package so there are no additional engineering costs required to fit the system.

The package has everything you need and includes:

1. EASA certification
2. Installation drawings
3. Service Bulletin
4. Maintenance Manual Supplement



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Quality and expertise

The Cobalt team has more than 25 years of experience in developing and certifying cabin lighting products, credited with developing many of the innovations we take for granted today.

Cobalt partners with CREE to build on this experience and means that Cobalt's LED products contain the highest quality and brightest LED technology available today.



Key features & benefits

- True drop-in/plug-and-play lighting units
- Anything goes. Choose any color in any mode, ceiling or sidewall
- Incredible extra VLM control modes and mood-lighting effects
- The highest reliability lighting units
- The brightest and best LEDs
- No changes to the aircraft wiring or procedures
- The existing Attendants Panels are retained
- The lowest acquisition and through life costs
- There are no Engineering NRCs
- The lowest weight of all OEM and retrofit solutions
- The lowest power consumption of all OEM and retrofit solutions
- Compatible with Photoluminescent floor path marking systems

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Technical data

Available colors	Full RGBW (palette of 16.8 million colors)
Operating Voltage	115 Volts AC 400Hz
Dimensions (long tube)	928mm x 34mm x 44mm nominal
Weight (long tube)	220g nominal
Dimensions (short tube)	470mm x 34mm x 44mm nominal
Weight (short tube)	150g nominal
Input Power Consumption	Less than 10 Watts per unit (70% reduction to OEM)
Lux level at Cabin floor	160 lx (average for A320)
Weight Reduction	60% reduction (typical saving of 30KG for A320)
Cabin Noise Reduction	Ballast 'hum' eliminated
Wi-Fi compatibility	Compatible with Wi-Fi, Bluetooth and other standards
Light level	Compatible with photoluminescent floor path marking
Passenger comfort	Annoying fluorescent light flicker eliminated
Installation time	Less than 4 hours with two persons (for A320)
Certification	Certified with EASA Minor change
Airworthiness release	EASA Form 1



Diversified Aviation Services
+1 305 828 2559
info@diversified.aero



+44 (0)1603 327757
info@cobaltaerospace.com
www.cobaltaerospace.com

Cobalt Aerospace Ltd, Unit 6 Ironside Way, Hingham, Norwich, NR9 4LF, United Kingdom

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