

Covert/Overt Anti-Collision Light for Helicopters

This light is an integrated visible/IR light utilizing LED technology that replaces the existing rotating beacon and IR ring on a helicopter. The unit provides a universal mounting ring that supports multiple aircraft versions. The LED technology provides an MTBF of over 25,000 hours and no moving parts to wear out. In the visible/overt mode, the light is a normal red flashing anti-collision light that is also NVIS-friendly in accordance with MIL-STD-3009. In IR/covert mode, the lights are only visible with Gen III night vision goggles.



Features

| | |
|-----------------------|---|
| Part Number | 20650-02 |
| Miscellaneous | Input/Output protection |
| | Lightning protection |
| | Compliant with FAR 27.1401 and FAR 29.1401 |
| | Supports multiple aircraft versions |
| Environmental & EMI | RTCA/DO160E |
| Input Voltage | 28 V DC |
| Power Consumption | Visible/overt mode: < 20 W IR/covert mode: < 6 W |
| Light Color | Aviation Red |
| Flash Frequency | Visible/overt mode: 40–90 per minute IR/covert mode: 200 ms ON, 500 ms OFF |
| IR Dimming Capability | 1–20 ms/sr, discrete or continuous steps |
| Equipment Weight | < 2 lbs |
| Maximum Intensity | Visible mode: > 150 cd IR/covert mode: > 20 mw/sr |
| Light Unit MTBF | > 25,000 hours |

VISIBLE COVERAGE

| | Field of Coverage | Light Intensity (cd) |
|---------------------|---|----------------------|
| Above Horizon Plane | 20° to 30° | 15 |
| | 10° to 20° | 30 |
| | 5° to 10° | 90 |
| | 0° to 5° | 150 |
| Horizon Plane | 0° | 150 |
| Below Horizon Plane | 0° to 5° | 150 |
| | 5° to 10° | 90 |
| | 10° to 20° | 30 |
| | 20° to 30° | 15 |
| IR Coverage | 0–90° above horizon plane, maximum intensity at 30° | |