

Airborne video cameras

CMX series external camera units



CMX series cameras are fully qualified lightweight units designed for vertical fin, belly or horizontal wingtip mounting.

CMX cameras are designed to provide the optimum aerodynamic performance and imaging performance in all flight conditions.

Models are available with fixed or auto-iris lens and with different field of view options.

Camera windows are direct-heated for rapid demisting and defrosting.

Models available

CMX-01 — fixed iris color camera, top mount (vertical fin)

CMX-02 — fixed iris color camera, belly mount

CMX-03 — auto iris color camera, top mount (vertical fin)

CMX-04 — auto iris color camera, belly mount

CMX-05 — fixed iris color camera, horizontal wingtip mount (right)

CMX-06 — fixed iris color camera, horizontal wingtip mount (left)

Key features

- Aerodynamic design
- Fully integrated—no remote units
- DO-160D qualified
- Interface to Securaplane security system
- Simple installation—profile adapters available
- High resolution—over 470 TVL
- Auto-iris lens available

Applications

- Inflight entertainment
- Situational awareness
- Security
- Special mission / military COTS

Installations

- Airbus ACJ, A310, A320, A340
- Boeing BBJ, B737, B747, B757, B767
- Bombardier Challenger, Global Express, Global 5000
- Gulfstream GIV, GV, G350, G450, G500, G550

Securaplane

Our product competencies and services:
Aircraft security systems | Airborne video cameras | Aircraft batteries | Battery chargers | Inverters | Converters | Wireless integration

Airborne video cameras

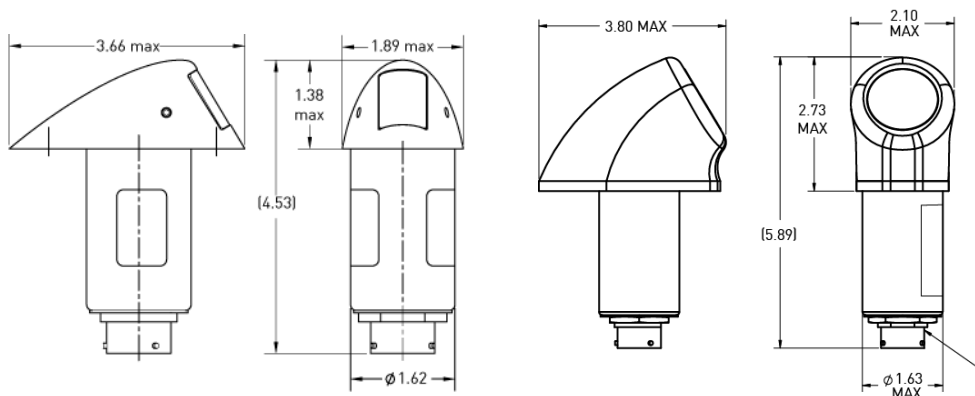
CMX series external camera units

Specifications

Model	CMX-01-x	CMX-02-x	CMX-03-1	CMX-04-x	CMX-05	CMX-06
Part Number	100-1054-XX	100-1056-XX	100-2425-01	100-2433-XX	100-2653-01	100-2654-01
Position	Vertical fin	Fuselage underside	Vertical fin	Fuselage underside	Wingtip (right)	Wingtip (left)
Field of view, h x v	-01: 31° x 24° -02: 88° x 72°	-01: 31° x 24° -02: 88° x 72°	-01: 91° x 68°	-01: 31° x 24° -02: 64° x 49° -03: 91° x 68°	88° x 67°	88° x 67°

Models	CMX-01-x, -02-x, -05, -06	CMX-03, -04
Overall dim: (hwd)	4.2 x 1.9 x 3.7 inches / 108 x 48 x 94 mm	5.9 x 2.1 x 3.8 inches / 150 x 53 x 97mm
Weight	0.5 lbs. (.23 kg)	0.75 lbs. (.34 kg)
Coefficient of drag	.25 (est)	.5 (est)
Finish	Powder coated, white	Gray enamel
Window	Fused silica, heated	Sapphire with ITO heater
Iris	Electronic shutter, 0.166 ~ 0.0001s	Auto iris, F1.2 ~F360
Qualification	D0-160D - alt: 55,000 ft., temp: -55°C to +65°C, EMI radiated and conducted cat. h	D0-160D - alt: 55,000 ft., temp: -55°C to +65°C, EMI radiated and conducted cat. h
Imager	1/3 inch charged coupled device (CCD)	1/3 inch charged coupled device (CCD)
Video output	VBS 1v p-p, 75 Ω (NTSC)	VBS 1v p-p, 75 Ω (NTSC)
TV resolution	460 (H) x 400 (V) TV lines	460 (H) x 400 (V) TV lines
S/N ratio	50 dB (AGC off)	50 dB (AGC off)
Color balance	Preset for daylight (5600° K)	Preset for daylight (5600° K)
Gamma	0.45	0.45
Min. illumination	2 lux	2 lux

Dimensions



CMX-01-x, -02-x, -05, -06

CMX-03, -04



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