Bad Wolf Technologies Helicopter Hoist Camera

Electronics

- 1.3 Megapixel 1/3.2” CMOS Sony Starvis IMX017 image sensor SoC System on a Chip.
- Eyenix DSP(ISP) Digital Signal Processor.
- Resolution, 1000 TVL.
- Analogue Output 1280 (CVBS) NTSC / PAL.
- Low light, 0.1 LUX @ F2.0.
- Input Power +28 VDC (+15 DVC to +32 VDC).

Optics

- 3.24mm lens, approximate Field of View (FOV) 56^{o}V x 72^{o}H.
- Glass Finish, 60/40.

Camera Chassis (Body)

- Camera Housing milled from 6061-T6 aluminum alloy.
- D38999/21NA98PN industry standard 3-pin connector for electrical interface. Pin A = CVBS signal, Pin B = Power @ +28 VDC and C = GND.
- Part Number, Revision Level and Serial Number etched on ID Label IAW MIL-STD-130.
- “FWD” Marking machined into the housing.

General

- Waterproof housing to protect electronics & optics.
- Lightweight, entire assembly is < 1lbs.
- Materials used to withstand Saltwater environment.
- Fog Proof Lens Cavity – nitrogen purged.
- Camera continuous operation, -40^{o}C to +55^{o}C (qualified IAW customer requirements. Capable of -40^{o}C to +75^{o}C operation).

Camera Body Finish

- Internal - Alodine IAW MIL-DTL-5541 Type I, Class 3.
- External - Anodize black IAW MIL-A-8625 Type III, Class 2.

Notes

- Adheres to RTCA/DO-160G commercial aviation requirements. Reports are available upon request.
- Camera housing mates to the Sikorsky S92 existing mounting bracket. No modifications required.
- Connector Index Keyway facing forward (FWD) at 12:00 o’clock position when the camera is installed on the aircraft.
- Camera is oriented on the aircraft with 56^{o} FOV along longitudinal axis (Front/Aft) and 72^{o} along the lateral axis (Left/Right).
- Camera 3-pin connector (Signal, Power, and Ground) D38999/21NA98PN mates to existing wiring harness without a need for modifications. KPT02E-3PA 206 connector option is available.
- Aircraft grounding with the outer shell of the camera connector.
- True “Plug and Play” replacement of previous generation cameras while maintaining existing mounts and mounting locations.

DRAFT

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