



HIGH DEFINITION DOME

SPECIFICATIONS

August 13, 2013

AVS860-Z-28PTZ

(Pan, Tilt & Zoom)

| | |
|---|--|
| Image Device | 1/3" SONY Progressive CMOS |
| Effective Pixels | 2.1 Mega Pixel |
| Video Signal | HD: 1920 x 1080 (Full HD, 1080p @ 30fps, 25fps) 1280 x 720 (HD, 720p @ 60fps, 50fps, 30fps,25fps) |
| | SD: NTSC, PAL (simultaneous HD & SD video outputs) |
| Video Output | HD-SDI 292 & NTSC/PAL |
| Minimum Illumination | 1 lux Color |
| AUTO-B&W | .1 lux Black & White |
| Digital Noise Ratio | 3DNR |
| Zoom Lens | 12X Optical 10X Digital (available upon request) |
| Field of View | Wide 52.4° Tele 4.64° |
| Panning Range | 360° Continuous |
| Tilting Range | 0-90° (Digital Flip OFF) 0-180° (Digital Flip ON) |
| Speed | Max Preset Speed: 360° / sec |
| Presets | 100+ Positions |
| Auto Scan, Tour & Pattern | 8 each |
| Control | RS485 RX, Pelco Protocol, 2400-38.4Kbps (default: 2400bps) |
| On Screen Display | Camera ID, Title, Mode & Angle (Multi-Language) |
| Alarm Output | 1 Normal Relays 5vdc/40mA Max |
| Alarm Input | 4 Normal Dry Contact |
| Environmental Enclosure | Lightweight aluminum, powder coated, nitrogen purged & pressurized, thermostatically heated. 5" Fused Quartz dome lens |
| Power Requirement Camera | Regulated +28VDC / 1 Amp |
| Power Requirement Heater | Regulated +28VDC / 4 Amp |
| Weight | 6.0 pounds |
| DO-160F | Appropriately tested electronically and environmentally |
| SAME FORM, FIT, FUNCTION AS PREVIOUS AVS480 WITH DIFFERENT COMMAND PROTOCOL. | |

NOTES UNLESS OTHERWISE SPECIFIED

1. IDENTIFY PARTS USING BRADY ULTRA AGGRESSIVE POLYESTER LABEL WITH MINIMUM INFORMATION AS FOLLOWS:
PART NUMBER, REVISION LEVEL, PER AVS860 CMM CONFIGURATION DOCUMENT NO. 44-20-860.

2. FOR DOME RETAINING RING MOUNTING ONLY.

3. MOUNTING HOLES FOR NAS603 SERIES TO SECURE DOUBLER ON AIRCRAFT.

4. FOR MACHINE PARTS, REMOVE ALL BURRS AND BREAK ALL EDGES / CORNERS
0.01/0.03, EXCEPT AS NOTED.

5. CHEM FILM (ALODINE) ALUMINUM PARTS, PER HENKEL TPB NO. 235110.

6. POWDERCOAT AS NOTED PER DUPONT DATA SHEET PPW610S9.

7. MATERIAL: 6061-T6 ALUMINUM ALLOY PER QQ-A-225/8.

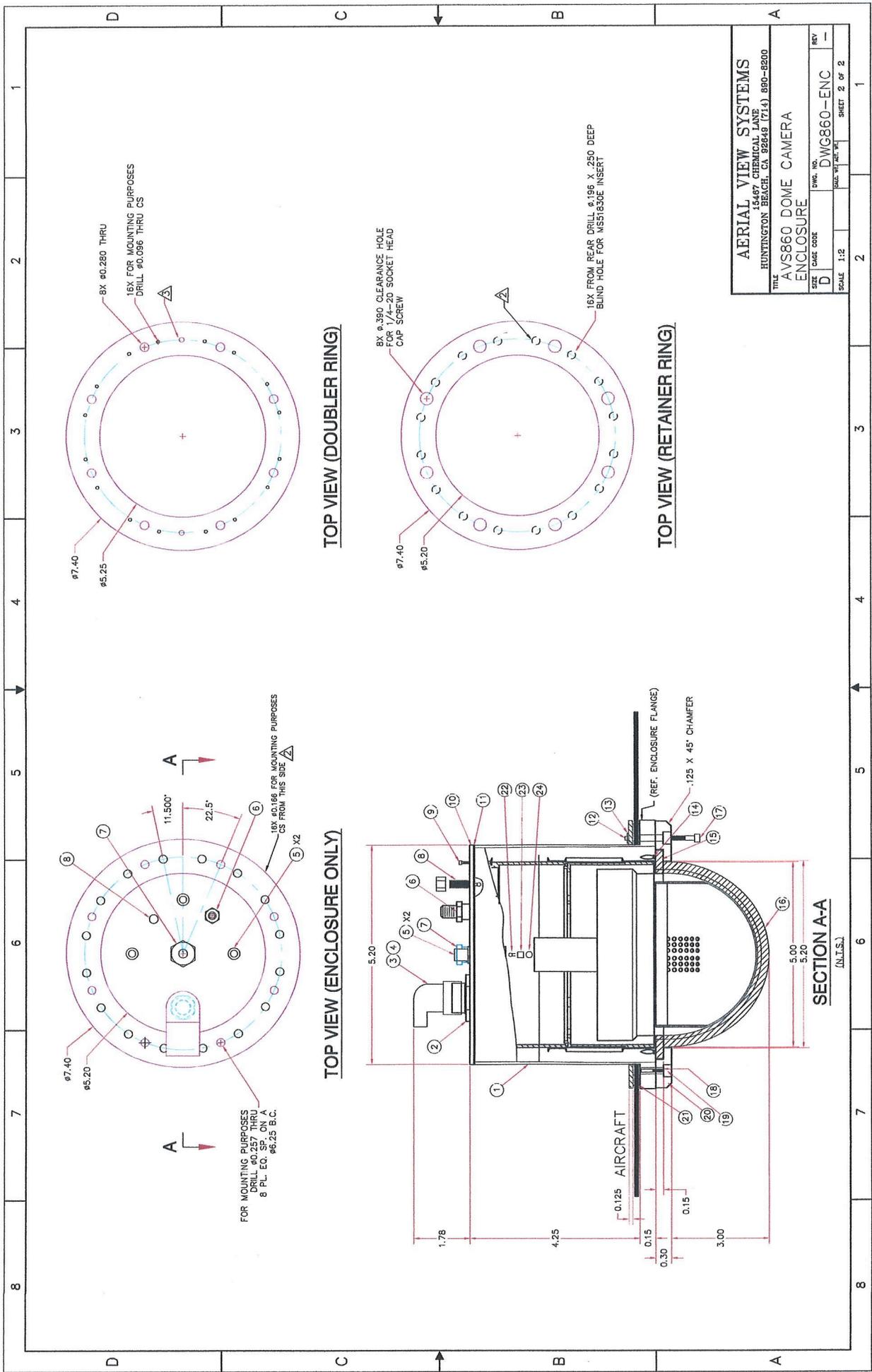
8. DIMENSION IN () : REFERENCE ONLY.

9. TOTAL WEIGHT WITH INTERNAL COMPONENT IS APPROXIMATELY 6.0 LBS.

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|------|-----|-----------------|----------|----------|
| | - | INITIAL RELEASE | 01/17/14 | J.B. |
| | | | | |

| QTY | REQD | MPY/CAGE CODE | Ω PART OR IDENTIFYING NO. | DESCRIPTION | MATERIAL SPECIFICATION | ZONE | FRD NO. |
|-----|------|---------------|---------------------------|--|------------------------|------|---------|
| 1 | | OMEGA | 55604 | 100 F THERMISTOR | GLASS ENCAPSULATED | 24 | |
| 1 | | AVS | AC-023303 | 60 HZ POWER PCB, 0.030" THICK | FR-4 FIBERGLASS | 23 | |
| 2 | | RAYCHEM | RAE250 | POLY SWITCH | EPOXY POLYMER | 22 | |
| 1 | | AV-DEC | A622600-22 | ENCLOSURE GASKET | POLYURETHANE | 21 | |
| 1 | | AVS | AVS660-RR | RETAINER RING | ALUMINUM | 20 | |
| 16 | | MIL SPEC | MS24694C3 | SCREW, FLAT HEAD, 8-32 X 3/8 | SS | 19 | |
| 8 | | SCHNDRR | S06-355S | WASHER, SERRATED 1/A" | 18-8 SS | 18 | |
| 8 | | MIL SPEC | MS16688-25 | SCREW, SOCKET HEAD CAP, 1/4-28 X 1.25" | SS | 17 | |
| 1 | | AVS | AVS660-500-D | DOME | FUSED QUARTZ | 16 | |
| 1 | | AVS | AVS660-BEZ | DOME BEZEL | TITANIUM | 15 | |
| 1 | | ALL SEALS | AS-159 BUINA | DOME O-RING | BUINA 70 | 14 | |
| 1 | | AVS | AVS660-DR | DOUBLER RING | ALUMINUM | 13 | |
| 8 | | MIL SPEC | MS21059L3 | NUT PLATE, FLOATING ANCHOR | STEEL | 12 | |
| 1 | | ALL SEALS | AS-157 BUINA | LID O-RING | BUINA 70 | 11 | |
| 1 | | AVS | AVS660-LID | DOME ENCLOSURE LID | ALUMINUM | 10 | |
| 12 | | MIL SPEC | MS16995-4 | SOCKET HEAD CAP SCREW, 4-40 X 1/2" | SS | 9 | |
| 1 | | JET FITTING | CHS-490-12J | ASSY, GROUND STUD, 1/4-20 | SS | 8 | |
| 1 | | AGM CONTROLS | TA370-234P | HUMIDITY INDICATOR | ZINC PLATED BRASS | 7 | |
| 1 | | JB IND'S | A31464 | SCHRADER VALVE, NITROGEN | BRASS | 6 | |
| 2 | | EMERSON | B177HS | CONNECTOR TRIAXIAL | BRASS / NICKEL | 5 | |
| 1 | | CANNON | KP5E9P16-26S | CONNECTOR, 90° PLUG (OPTION) | ALUMINUM | 4 | |
| 1 | | CANNON | MS310F16-26S | CONNECTOR, STRAIGHT PLUG | ALUMINUM | 3 | |
| 1 | | MIL SPEC | MS314H16A26P | CONNECTOR, CIRCULAR JAM NUT | SS | 2 | |
| 1 | | AVS | AVS660-Z-28PT-CH | ENCLOSURE, DOME CAMERA | ALUMINUM | 1 | |

| PARTS LIST | | | |
|--|--------|------------------------------|--------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. FRACTIONS IN DECIMALS ANGLES IN DEGREES | | CONTRACT NO. | |
| ± 0.10 | ± 0.05 | ± 0.010 | ± 1/2° |
| ± 0.10 | ± 0.05 | ± 0.010 | ± 1/2° |
| MATERIAL: 6061-T6 ALUM. ALLOY | | AVS860 DOME CAMERA ENCLOSURE | |
| FINISH: POWDERCOAT | | ENCLOSURE | |
| DO NOT SCALE DRAWING | | SCALE: 1:2 | |
| DESIGN ACTIVITY | | DWG. NO. DWG860-ENC | |
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| AERIAL VIEW SYSTEMS 15487 CHEMICAL LANE HUNTINGTON BEACH, CA 92648 (714) 890-8200 | |
| TITLE | AVS860 DOME CAMERA ENCLOSURE |
| SIZE | D |
| DWG. NO. | DWG860-ENC |
| DATE | REV |
| SCALE | 1:2 |
| SHEET 2 OF 2 | |

