

EX27D-MX4 Desert Series Camera

1. General

- 1.1 The camera shall consist of a rugged, compact, all-weather aluminum housing, camera and lens for all weather conditions.
- 1.2 The camera shall use DSP signal processing for enhanced edge definition and detail reproduction.
- 1.3 The camera shall have a 2:1 interlaced scanning system.
- 1.4 The camera shall incorporate MFP technology for motorized filter changing controlled externally by photocell to allow for optimal CCD performance in either visible light or active-IR light.
- 1.5 The camera shall be energy efficient.
- 1.6 The camera shall operate with high reliability.
- 1.7 The camera shall operate in hot desert environments.



2. Performance

- 2.1 The camera shall be an LXR type 1/3" CCD for excellent IR sensitivity, low smear, low streak and excellent anti-blooming characteristics.
- 2.2 The camera shall have automatic, photocell-controlled day-night switching.
- 2.3 The camera shall have a motorized mechanical filter with IR-cut and IR-pass windows to optimise day and night performance respectively.
- 2.4 The camera shall have a motorized mechanical filter with photocell-control.
- 2.5 The camera shall have daytime color mode.
- 2.6 The camera shall have daytime color resolution of 550 horizontal lines.
- 2.7 The camera shall have a minimum illumination for daytime color mode of 0.02Lux at F1.4.
- 2.8 The camera shall have night-time monochrome mode.
- 2.9 The camera shall have night-time monochrome resolution of 570 horizontal lines.
- 2.10 The camera shall operate at zero lux in night-time monochrome mode when used with appropriate infrared illuminators.
- 2.11 The camera shall produce outstanding contrast characteristics for reduced glare and streaking.
- 2.12 The camera design shall minimize the possibility of focus shift to ensure accurate focus for a daytime average wavelength of 500nm and a night-time average wavelength of 850nm.
- 2.13 The camera shall produce accurate color representation by eliminating IR bleed and/or other color distortions.
- 2.14 The camera shall have spectral response to infrared wavelengths between 700nm to 1100nm.
- 2.15 The camera shall produce a signal to noise ratio of greater than 48dB (AGC off).
- 2.16 The camera shall use automatic gain control (AGC) to produce clear images by minimizing the fluctuations caused by video signals that are too strong or too weak.
- 2.17 The camera shall be compatible with varifocal 4-8mm auto-iris lens.
- 2.18 The camera shall be available with a 10-40mm varifocal auto-iris IR-corrected lens.

3. Power Requirements

- 3.1 The camera shall have a voltage regulator board to allow input voltages of either 12 VDC or 24 VAC.
- 3.2 The camera shall require a maximum of 5W (417mA @ 12VDC).
- 3.3 The camera shall be equipped with a voltage regulating board, capable of protecting against excessive voltage, voltage spikes and reverse polarity.
- 3.4 The camera shall be equipped with a 1.6m (5 ft) composite cable for power and video.

4. Environmental

- 4.1 The camera housing shall be made of cast and extruded aluminum.
- 4.2 The camera housing shall be a sealed unit, capable of operation in harsh weather conditions.
- 4.3 The camera housing shall be weatherproof and dustproof.
- 4.4 The camera housing shall utilize a glass window.
- 4.5 The camera housing shall incorporate an integral sunhood.
- 4.6 The camera shall include a desiccant pack for humidity control.
- 4.7 The camera shall have a white powder-coated finish suitable for hot desert environments.
- 4.8 The camera shall have an operational temperature range of -50°C to +70°C (-58°F to +158°F)
- 4.9 The camera shall have overall dimensions of 8.7" (L) x 3.6" (W) x 3.5"(H) [222mm (L) x 91mm (W) x 89mm (H)].
- 4.10 The camera shall weigh 3.1 lbs (1.4 kg).
- 4.11 The camera shall be compatible with numerous wall mount, pole mount and cable-managed brackets.

5. Certifications / Standards

- 5.1 The camera shall be compliant to CSA / NEMA Type 4X.
- 5.2 The camera shall be compliant to CSA Std C22.2 No 0-M1991 - General Requirements, Electrical Code, Part II.
- 5.3 The camera shall be compliant to CSA Std C22.2 No 1-M94 - Audio, Video, and Similar Equipment.
- 5.4 The camera shall be compliant to CSA Std C22.2 No 94-M91 - Special Purpose Enclosures.
- 5.5 The camera shall be compliant to UL Std No 50 - Enclosures for Electrical Equipment.
- 5.6 The camera shall be compliant to UL Std No 2044 - Commercial Closed-Circuit Television Equipment

6. Model Names / Patent Statement

- 6.1 The camera shall be Extreme CCTV EX27D-MX4 Desert series.
- 6.2 The camera shall be an Extreme CCTV EX27D-MX4 Desert series with a U.S. patent pending design.



2.10: The camera shall operate at zero lux in night-time monochrome mode when used with appropriate infrared illuminators.