A & E Specifications

VEC12SM

1. Description

1/3” CCD with 380TVL resolution, 0.08 Lux Monochrome low light sensitivity camera.

2. System Performance

2.1. The Standard Resolution Camera shall include, as a minimum, the following features / functions / specifications:

2.2. The Standard Resolution Monochrome Camera must be protected by the most extensive support services in the industry, including Customer Service, Pre-Sales Applications Assistance, After-Sales Technical Assistance and access to Technical Online Support.

2.3. The Standard Resolution Monochrome Camera and its components shall be thoroughly tested prior to being shipped from the manufacturer’s facility.

2.4. The Standard Resolution Monochrome Camera shall incorporate a 1/3-inch, CD and have a minimum of 380 TV lines of resolution utilizing an effective pixel count of no less than 500 (H) x 582 (V) PAL.

2.5. The Standard Resolution Monochrome Camera shall provide excellent Monochrome performance in low light, down to 0.08 Lux @ f1.2 (50IRE).

2.6. The Standard Resolution Monochrome Camera shall have an internal amplifier that applies gain to the signal from the video imaging system. The amplifier must operate when there is insufficient light in the scene to produce an acceptable video output level and must only apply as much gain as is necessary. The camera shall incorporate two levels of automatic gain compensation (AGC), on and off allowing the user to achieve the optimal balance of noise and low light performance in demanding environments.

2.7. The Standard Resolution Monochrome Camera shall support the use of Auto Iris / Video Drive lenses connected to the camera via an industry standard 4-pin socket located on the side of the camera. The camera must provide power and the video drive signal to the lens.

2.8. The Standard Resolution Monochrome Camera shall support the use of Auto Iris / Direct Drive lenses connected to the camera via an industry standard 4-pin socket located on the side of the camera. The camera must provide power to the lens. The camera must also include an Automatic Iris Setting (AIS) adjustable via a POT on the rear of the camera to adjust the gain (level) of direct drive lenses.

2.9. The Standard Resolution Monochrome Camera shall include a 12V DC power supply.

2.10. The power consumption of The Standard Resolution Monochrome Camera shall be no more than 4.0 watts and a LED must be present on the rear of the camera to indicate when powered is on to the camera.

2.11. The Standard Resolution Monochrome Camera shall have a signal to noise ratio of 50 dB with the AGC off.

2.12. The Standard Resolution Monochrome Camera shall have a Back Light Compensation window that covers 40% of the scene from the centre.

2.13. The Standard Resolution Monochrome Camera shall include a back-focus adjustment mechanism to allow easy installation and adjustments.

2.14. The Standard Resolution Monochrome Camera shall be the Vista VEC12SM or equivalent.

A & E Specifications

3. Mechanical Specifications

3.1. The Standard Resolution Monochrome Camera must have the following mechanical specifications:

1. Unit Dimensions (L x W x H).... 127 x 62 x 54mm
2. Unit Weight..... 225 g
3. Video Output..... Composite Video
4. Auto Iris Output ..... 4-pin standard socket
5. Lens Mount ..... C/CS
6. Mounting Hole ..... ¼”-20 UNC top and bottom

4. Electrical Requirements

4.1. The Standard Resolution Monochrome Camera must have the following electrical specifications:

1. Voltage ..... 12V DC
2. Power Consumption..... <4.0 watts
3. Power Indicator..... LED

5. Environmental Conditions

5.1. The Standard Resolution Monochrome Camera shall be designed to meet the following environmental conditions:

1. Operating Temperature ..... -10° to 45° C
2. Emissions ..... FCC: Part 15, Class A
   CE: EN55022
3. Immunity..... IEC 801 Parts 2, 3, and 4
4. Safety ..... CE: EN60065

The camera shall be a Vista **VEC12SM**