A & E Specifications

VEC432DN/WDR

1. Description

1/3” Super WDR Wide Dynamic Range, True day / Night CCD camera with 480TVL resolution, digital signal processing and 0.5 lux Colour / 0.04 Lux Monochrome low light sensitivity.

2. System Performance

2.1. The High Resolution True Day / Night WDR Camera shall include, as a minimum, the following features / functions / specifications:

2.2. The High Resolution Sony Double Scan-WDR True Day / Night Camera will give perfect images in any lighting conditions.

2.3. The High Resolution WDR True Day / Night Camera and its components shall be thoroughly tested prior to being shipped from the manufacturer’s facility.

2.4. The High Resolution WDR True Day / Night Camera shall incorporate a 1/3-inch, digital signal processing (WDR) and a minimum of 480 TV lines of resolution utilizing an effective pixel count of no less than 795 (H) x 596 (V) PAL.

2.5. The High Resolution WDR True Day / Night Camera shall provide excellent True Day / Night performance in extremely low light, down to 0.04 Lux @ f1.2 (50IRE) or 0.001Lux (DSS).

2.6. The High Resolution WDR True Day / Night Camera shall have an internal amplifier that applies gain to the signal from the DPS 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 High Resolution WDR True Day / Night 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 High Resolution WDR True Day / Night 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) through the On-screen Display Menu to adjust the gain (level) of direct drive lenses.

2.9. The High Resolution WDR True Day / Night Camera shall include a switching 12Vdc / 24Vac power supply. The camera must have the ability to synchronize the video output to the AC power input so that all cameras on the system may be synchronized to the same point on the AC supply. In order to synchronize cameras on different phases, a phase adjustment control shall be provided through the On-screen Display Menu. The phase shall be adjustable from 0 to 360 degrees. The camera must also include internal synchronization capabilities.

2.10. The power consumption of the High Resolution WDR True Day / Night Camera shall be no more than 4.5 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 High Resolution WDR True Day / Night Camera shall have a signal to noise ratio of 50 dB with the AGC off.

2.12. The High Resolution WDR True Day / Night Camera shall have four privacy zone masks. Each zone is fully configurable and independent of each other.

2.13. The High Resolution WDR True Day / Night Camera shall incorporate auto-tracking white balance range of between 2500ºK and 9500ºK to constantly monitor the light and adjust its Colour accordingly. The automatic white balance ranges shall be selectable using the On-screen Display Menu. In addition to the automatic tracking settings, there is a Manual white balance setting to allow the setting of the operating colour temperature in the range of 3200ºK for “INDOOR” and 6300ºK for “OUTDOOR”.

2.14. The High Resolution WDR True Day / Night Camera shall have the ability to provide a Camera ID of up to 22 digits.

2.15. The High Resolution WDR True Day / Night Camera shall have a fully selectable Back Light Compensation window. This must have the ability to adjust the size, move the box to the required location on screen and adjust the sensitivity of the compensation.

2.16. The High Resolution WDR True Day / Night Camera shall include a back-focus adjustment mechanism to allow easy installation and adjustments.

2.17. The High Resolution WDR True Day / Night Camera must have RS485 external control with the ability to have an address of between 1 and 255.

2.18. The High Resolution WDR True Day / Night Camera shall have an automatic and external switch for moving the mechanical Infrared cut filter; there shall also be the ability to program the camera for colour or monochrome images only.

2.19. The High Resolution WDR True Day / Night Camera shall be the Vista VEC432DN/WDR or equivalent.

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3. Mechanical Specifications

3.1. The High Resolution WDR True Day / Night Camera must have the following mechanical specifications:

1. Unit Dimensions (L x W x H).... 127 x 70 x 58mm
2. Unit Weight..... 300 g
3. Video Output..... Composite Video / Y/C and UTP
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 High Resolution WDR True Day / Night Camera must have the following electrical specifications:

1. Voltage ..... 12V DC / 24V AC
2. Power Consumption..... <4.5 watts
3. Power Indicator..... LED

5. Environmental Conditions

5.1. The High Resolution WDR True Day / Night 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 **VEC432DN/WDR**