

A & E Specifications



VEC30SCu

1. Description

1/3" Sony CCD camera with 330TVL resolution, digital signal processing and 0.5 lux Colour low light sensitivity.

2. System Performance

- 2.1. The Standard Resolution Sony DSP Camera shall include, as a minimum, the following features / functions / specifications:
- 2.2. The Standard Resolution Sony DSP Colour 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 Sony DSP Colour Camera and its components shall be thoroughly tested prior to being shipped from the manufacturer's facility.
- 2.4. The Standard Resolution Sony DSP Colour Camera shall incorporate a 1/3-inch, digital signal processing (DSP) and a minimum of 330 TV lines of resolution utilizing an effective pixel count of no less than 537 (H) x 597 (V) PAL.
- 2.5. The Standard Resolution DSP Colour Camera shall provide excellent Colour performance in low light, down to 0.5 Lux @ f1.2 (50IRE).
- 2.6. The Standard Resolution DSP Colour Camera shall have an internal amplifier that applies gain to the signal from the DSP 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 four levels of automatic gain compensation (AGC), on, off, high and low allowing the user to achieve the optimal balance of noise and low light performance in demanding environments.
- 2.7. The Standard Resolution DSP Colour 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 DSP Colour 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.

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- 2.9. The Standard Resolution DSP Colour Camera shall include a 220-240V AC 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 are synchronized to the same point on the AC supply. The phase shall be adjustable from 0 to 360 degrees via a POT on the rear of the camera. The camera must also include internal synchronization capabilities.
- 2.10. The power consumption of The Standard Resolution DSP Colour Camera shall be no more than 6.0 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 DSP Colour Camera shall have a signal to noise ratio of 50 dB with the AGC off.
- 2.12. The Standard Resolution DSP Colour Camera shall incorporate auto-tracking white balance range of between 2500°K and 9500°K to constantly monitor the light and adjust its Colour accordingly. The automatic white balance ranges shall be selectable using the Dip Switches on the rear of the camera. In addition to the automatic tracking settings, there is a Quick white balance setting to allow the setting of the operating colour temperature in the range of 3200°K for “INDOOR” and 6300°K for “OUTDOOR”.
- 2.13. The Standard Resolution DSP Colour Camera shall have a Back Light Compensation window that covers 40% of the scene from the centre.
- 2.14. The Standard Resolution DSP Colour Camera shall include a back-focus adjustment mechanism to allow easy installation and adjustments.
- 2.15. The Standard Resolution DSP Colour Camera shall be the Vista VEC30SCu or equivalent.

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3. Mechanical Specifications

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

1. Unit Dimensions (L x W x H).... 127 x 62 x 54mm
2. Unit Weight.....265 g
3. Video Output..... Composite Video
4. Auto Iris Output4-pin standard socket
5. Lens MountC/CS
6. Mounting Hole 1/4"-20 UNC top and bottom

4. Electrical Requirements

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

1. Voltage.....220 - 240V AC
2. Power Consumption.....<6.0 watts
3. Power Indicator.....LED

5. Environmental Conditions

5.1. The Standard Resolution DSP Colour 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 **VEC30SCu**