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High-performance, Multi function Camera : C2400 Series

The video cameras in this series are high-performance cameras emphasizing ease of use. Developed for use in industrial and biological fields, they employ contrast enhancement circuits, so that low-contrast images can be converted to sharply detailed images. In addition to recording images on a VTR or VCR, image processing and analysis can be carried out using these in combination with image processing devices and measuring instruments. The C2400 series offers a full lineup of camera heads designed to match any characteristics such as spectral sensitivity wavelength, sensitivity, and lag.

APPLICATIONS

Biological	Video microscopy	
Industrial	Observation of IC internal defects	C2400-03
	Observation of void, scratches and internal defects in a wafer	
	Observation of an infrared laser beam profile	
Cultural Assets	Observation and investigation of old art objects covered with soot and dust	

TYPICAL CAMERA HEADS FOR INDUSTRIAL APPLICATION

Model	Horizontal center resolution (TV line)	Spectral response (nm)	Detectable luminance range
C2400-03 1-inch Infrared vidicon	600	400 to 1800	0.1 to 10 <i>lux</i>
C2400-05 1-inch Ultraviolet vidicon	700	250 to 750	0.01 to 1 <i>lux</i>
C2400-16 1-inch Super-Harpicon	800	400 to 700	0.001 to 10 <i>lux</i>

C2400-53 2/3-inch Infrared vidicon	550	400 to 1800	0.1 to 10 <i>lux</i>
C2400-55 2/3-inch Ultraviolet Vidicon	700	250 to 750	0.01 to 1 <i>lux</i>
C2400-77 2/3-inch Interline CCD	570	400 to 750 (to 920)*	0.01 to 10 <i>lux</i>
C2400-75 1/2-inch Interline CCD	570	400 to 750 (to 920)*	0.01 to 10 <i>lux</i>

* Without infrared screening filter

FUNCTIONS

Contrast Enhancement Circuit.

This function enhances low contrast images to be visualized more clearly.

Detail

This function enhances edges and intensity transitions dramatically improving the ability to see image detail.

Automatic Gain Control

Excellent overall image contrast can be achieved automatically using this feature. This eliminates the need for manual adjustments in situations where light intensity fluctuates over time.

Level Indicator

Green and red LED indicator allow the user to easily and accurately adjust the level of incident light for reproducible and optimum camera performance.

Shading Corrector

The function corrects for uneven intensity across the field of view due to illumination or optical phenomena.

Video Booster

The video booster modifies the contrast in dark portions of the image revealing detail which were lost due to their low intensity.

Video Inverter

This produces a negative image by inverting the video intensity values. It is used when important information is concentrated in the dark portion of the image, rather than in the bright areas. Combining the use of the inverter with the contrast enhancement circuit is very effective.

Video Tube Protection Circuit

A protection circuit has been incorporated to prevent damage to the imaging tube, shield the horizontal or vertical synchronization signals be lost.

External Synchronization Control

When utilizing external equipment, it may be necessary to synchronize the scanning of C2400 via this equipment. This circuit automatically switches from internal to external synchronization when external horizontal and vertical signals are provided.

White Clipper

The white clipper operates to suppress the level of the video signal when it exceeds a preset level, in order to maintain consistently high image quality on the video monitors.

Operational Video Output

External processing of video signals is simplified by the Operational Video Output. Operational video does not include synchronization signals,so it can be used to display DC signals with black level as 0 volts.

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Created in February 1997
Page Number SICS1018HE01



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