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# Super Eye: C2847

A video camera that uses real-time image processing for high-level identification of objects

This image-enhancing video camera is equipped with an imaging tube that has a wide dynamic range and offers real-time differential processing, combined with brightness compression processing, all in a single unit. Using this camera, clearly detailed images can be produced of objects with extremely faint contrast that cannot be distinguished with the human eye.



σ Original image



σ Image captured by Super Eye



## 5 FA Measurement System

### Real-Time Image Processor: ARGUS-20

Image measurement with high resolution of 1,024 horizontal pixels and simple mouse operation

This is an image processor which achieves a high resolution of 1,024 horizontal pixels. A broad range of image processing functions and measurement functions are provided, including image subtraction, accumulation, and recursive filters. A mouse is used, making operation easy. In addition, a superimpose function enables superimposed displays of illuminated images, emissions, and fluorescence emissions, making it possible to identify fluorescence positions and other elements.



#### λ Specifications

		Synch method	EIA (USA)	CCIR (Europe)
Input signal		H.scanning frequency	15.734 kHz	15.625 kHz
		V.scanning frequency	59.94 Hz	50.00 Hz
		Total number of scanning lines	525	625
		Number of effective scanning lines	483	509
		Interlace ratio	2:1	
		Aspect ratio of screen	4:3	
Aspect ratio of pixel		Signals	Composite 1.0Vp-p/75	
Output signal	For monitor		2:3 (High-resolution mode) 1:1 (Normal-resolution mode)	
	For VTR or VCR		Composite 1.0Vp-p/75	
RGB output	RGB signal		Composite 1.0Vp-p/75	
	HD, VD, Sync signal		0.7Vp-p/75 positive 2.0Vp-p/75 negative	
A/D,D/A converter			8 bit approx. 20MHz sampling	
Image memory	Main memory	High-resolution mode	1024 (H) x 483 (V) x 16 bit	1024 (H) x 509 (V) x 16 bit
		Normal-resolution mode	640 (H) x 483 (V) x 16 bit	640 (H) x 509 (V) x 16 bit
	Sub memory	High-resolution mode	1024 (H) x 483 (V) x 16 bit	1024 (H) x 509 (V) x 16 bit
		Normal-resolution mode	640 (H) x 483 (V) x 16 bit	640 (H) x 509 (V) x 16 bit
	Graphic memory	High-resolution mode	1024 (H) x 483 (V) x 4 planes	1024 (H) x 509 (V) x 4 planes
		Normal-resolution mode	640 (H) x 483 (V) x 4 planes	640 (H) x 509 (V) x 4 planes
Operating temperature			0°C to +40°C	
Storage temperature			-10°C to +50°C	
Operating and storage humidity			90% or less (non-condensation)	
Line voltage			100/117/220/240 VAC 50/60Hz	
Power consumption			Approx. 200 VA	



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