



Small Head, High-Resolution, Monochrome Progressive UV Camera

SKC-161UV

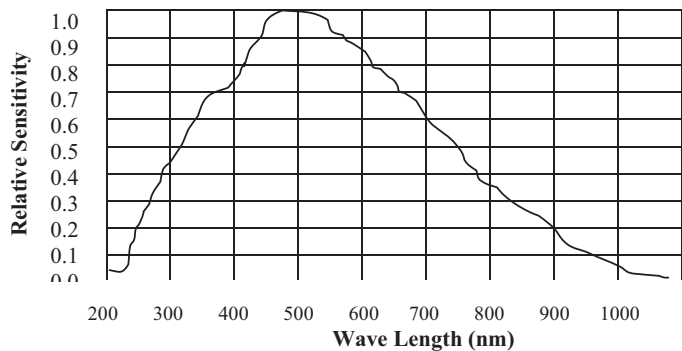


The SKC-161UV is a latest advanced full frame shutter monochrome camera. This camera uses a 1/2 inch 1.45 million pixel forward matrix interline transfer CCD with highest sensitivity in an ultra-violet (UV) area and realizes inspections of a fine scratch, dust, stain or finger print at lower cost which would not see in visible ray area.

Application:

- Semiconductor Inspection
- Metal Surface Inspection
- Microscope exam. system
- Fingerprints Inspection

CCD Relative Sensitivity Response



Functions and Features

- This camera has a sensitivity in 230nm range to make possible to use a microscope under an ultra-violet light source.
- High Resolution and MTF make possible using effective pixels 1.45M, square pixel read-out CCD.
- High sensitivity in visible area as well as ultra-violet area to accept the use of normal inspection.
- Lower smear level
- 10 frames per second
- Remote control via RS-232C
- Built-in Internal Sync/External Sync Automatic Selection Function
- Built-in low jitter external sync circuit

Rated Values and Performance**Rated Values**

Imaging device	Interline Transfer CCD
Optical size	1/2" format (7.6mmx6.2mm)
Effective number of pixel	1392 x 1040 (H x V)
Pixel dimensions	4.65(H)x4.65(V) μ m
Screen aspect ratio	4 : 3
Scanning mode	Non-interlace 1/10sec
Sync method	Internal/External (automatic)
Sync frequency	Horiz. : 10.981 KHz Vert. : 10.28 Hz
Pixel clock	19.656 MHz
External input sync	HD/VD TTL level
Video output	Analog: VS 1.0Vp-p/75 Ω Digital: RS-644 standard CLK(19.656MHz),HD,VD, DATA(10bit Parallel) *RS-422A Option
Power source	DC 12V (11~ 16V)
Lens mount	C-mount
Optical filter	Dust cover glass (possible to remove this)
Dimensions	46 x 42 x 84mm (W.H.D.) 1.81 x 1.65 x 3.31 in. (W.H.D.)
Weight	Approx. 200g (0.44 lbs)

Rated Values

IN/OUT connectors	DC IN/External sync input: 12pin(HR10A-10P-12S) Digital video output: 36pin(DX30AM-36P) Remote: (HR10A-7P-6P) Analog video output: BNC connector
Operating temperature	0 ~ +40°C (32 ~ 104°F)
Operating humidity	30 ~ 75% (related humidity)
Storage temperature	-20 ~ +60°C (-4 ~ 140°F)
Storage humidity	30 ~ 85% (related humidity)

Performance

Resolution	Horizontal 1392 pixels Vertical 1040 lines
S/No	50dB or more (at Gain 0dB, Gamma 1.0)
Quantization accuracy	10 bits
Gain adjustment	Manual or AGC selectable
Gamma correction	1.0 / 0.45 selectable
Shutter mode	Continuous shutter: 1/10~1/11,000sec (11 steps) Random shutter: (a)High speed: 1/ 2,700 ~ 1/11,000 sec (b)Low speed: 1/10~1,400sec (c)Pulse width input mode, (d)2 pulse input mode
Sync reset mode	Reset/non-reset (Random shutter mode)
External control	Via RS-232C port
External sync stability	\pm 70ppm
Flange back adjustment	Provided

Design and specification are subject to change without notice.