



Small Head, High-Resolution Progressive Color Frame Shutter Camera

SKC-201CL



The SKC-201CL is a latest advanced full frame shutter color camera with a 2/3 inch 1.45 million pixel forward matrix interline transfer CCD and outputs RGB signals (24 bits) at 15 frames per second, with Horizontal 1,392 x Vertical 1,040 pixels, through a camera link interface.

It has a multi-shutter mode available in continuous shutter mode, random shutter mode or auto shutter mode.

Application:

- Machine Vision
- Car Park control
- Microscopic examination system
- Security Surveillance

Functions and Features

- Adopted 2/3" 1.45M Pixels Color CCD
- No video process correction required because of using the square pixel CCD
- High Resolution output of Horizontal 1,392 x Vertical 1,040 pixels
- Superb color reproduction using a built-in special color processing
- Captures 15 frames per second
- Realized high sensitivity and low smear
- Digital Output – RGB 30 bits Camera Link
- C-Mount with Flange Back Adjustment
- Remote Control via RS-232C
- Built-in Internal Sync/External Sync Automatic Selection Function
- High Stability Design

Rated Values and Performance**Rated Values**

| | |
|--------------------------------|---|
| Imaging device | Interline Transfer CCD |
| Optical size | 2/3" format (9.0mmx6.7mm) |
| Effective number of pixels | R: 696 x 520 (H x V) G: 696 x 1040 (H x V) B: 696 x 520 (H x V) Total: 1392 x 1040 (H x V) |
| Pixel dimensions | 6.45(H)x6.45(V) μ m |
| Screen aspect ratio | 4 : 3 |
| Scanning mode | Non-interlace 1/15sec |
| Sync method | Internal/External (automatic) |
| Sync frequency | Horiz. : 16.000 KHz Vert. : 14.98 Hz |
| Pixel clock | 28.64MHz |
| External input sync | HD/VD TTL level |
| Video output | 15frames/sec non-interlace (HD, VD, CLK) Camera Link (RGB each 8bit) |
| Output signal number of pixels | RGB each 1394x1040(HxV) Complemented signal |
| Power source | DC 12V (11~ 16V) |
| Lens mount | C-mount |
| Light axis accuracy | Within \pm 0.1mm |
| Optical filter | IR Cut Filter |
| Dimensions | 50 x 53 x 130mm (W.H.D.) 1.97 x 2.09 x 5.12 in. (W.H.D.) |
| Weight | Approx. 400g (0.88 lbs) |

Rated Values

| | |
|--------------------------|-----------------------------|
| Camera Link cable length | Max. 10m (30 feet) |
| 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 ~ 75% (related humidity) |

Performance

| | |
|-------------|---|
| Resolution | Horizontal 1392 pixels Vertical 1040 lines |
| S/No | 50dB or more (at Gain 0dB, Gamma 1.0) |
| Smear | -110dB |
| Sensitivity | Standard luminance: 2000 lux/F8(Gain 0dB) Minimum luminance: 11 lux/F1.4(Gain15dB) |

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|-----------------------|---|
| Quantization accuracy | 10 bits |
| Gain switching | 0 to 15dB |
| Gamma correction | 1.0 / 0.45 |
| Shutter mode | Continuous shutter: 1/15,1/30,1/60,1/100,1/120, 1/250,1/500,1/1000,1/2000, 1/4000,1/8000 Random shutter: 1/15,1/30,1/60,1/100,1/120, 1/250,1/500,1/1000,1/2000, 1/4000,1/8000 Pulse width input mode, 2 pulse input mode Auto shutter: 1/15 ~ 1/50000 |
| Sync reset mode | Reset/non-reset (Random shutter mode) |
| White balance | Manual: R gain/B gain Auto: One push method |
| Control | Communication by RS-232C |

Design and specification are subject to change without notice.