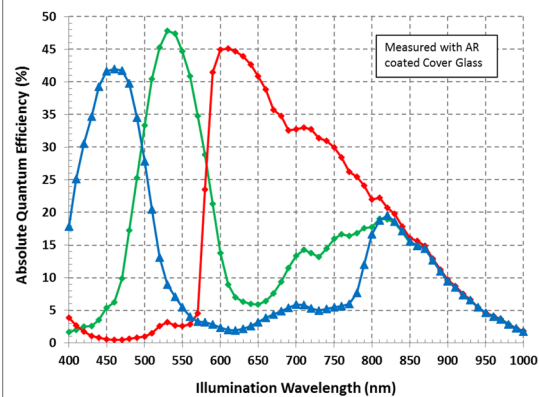


C2880

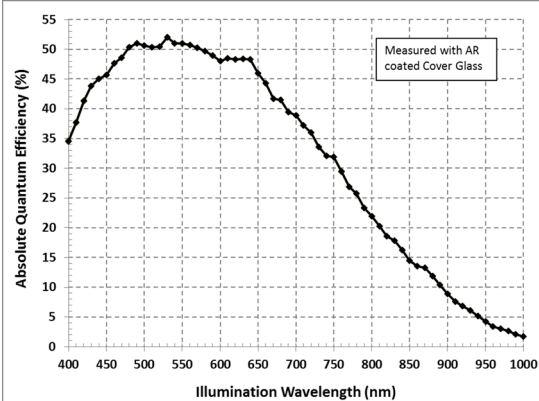


IMPERX: Technically superior products, full tech support, rapid-response customer care. Cheetah adds many new features, extended dynamic range, dual video output and enhanced image quality. Each easy to use Cheetah is supported by IMPERX professionals.

Color (Bayer RGB) with Microlens KAC-06040



Monochrome with Microlens KAC-06040



INTERFACES AVAILABLE:

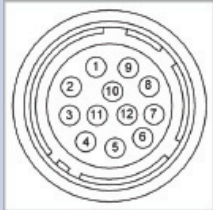
- Standard Resolution
- Maximum Resolution
- Sensor
- Sensor Format
- Pixel Size
- NIR Sensitivity
- Shutter
- Blooming Suppression
- Column/Row Noise Correction
- Digitization
- Frame Rate
- Dynamic Range
- Extended Dynamic Range (XDR)
- Output Format
- Analog Gain Control
- Digital Gain
- Black Level Control
- White Balance
- Shutter Speed
- Exposure Control
- Regions of Interest (ROI)
- Averaging Decimation
- Sub-sampling Decimation
- Dual Video Capability
- Dual Video Frame Switching
- Auto Dual Frame Switching
- Frame A/B Settings

- Trigger Inputs
- Trigger Options
- Trigger Modes
- External Inputs
- External Outputs
- Strobe Output
- Pulse Generator
- Image Enhancement
- Corrections
- Lens Mount
- Supply Input Range
- Power Consumption
- Size - Width/Height
- Size - Length
- Weight
- Vibration, Shock
- Environmental
- Humidity
- MTBF
- Regulatory

- Camera Link® Full/Deca (CLF), CoaXPress (CXP)
- 2832 x 2128
- 2848 x 2144
- KAC-06040, CMOS
- 13.1 mm (H) x 10.0 mm (V), 16.65 mm diagonal, 1" optical
- 4.7 µm
- 850nm: 15%, 950nm: 5%
- Global shutter (GS), rolling shutter (RS)
- >10,000 Vsat, Black Sun Suppression
- <1 electron (RS), <3 electrons (GS)
- 8, 10, or 12 bit
- 55 fps (12-bit), 105 fps (10-bit), 135 fps (8-bit)
- 74 dB (RS), 57 dB (GS)
- 100 dB (typ) GS, up to 2 knee points, piecewise linear
- Mono: 8, 10, 12; Color 8, 10, 12
- 12-bit: 0-12 dB (16 steps); 8 or 10-bit: 0-18 dB (32 steps)
- 24 dB (128 steps)
- Manual, 8192 steps
- Manual, auto, off
- 1µs/step, 5 µs to 1.0 sec (GS), 2 µs to 1.0 sec (RS)
- Off, internal, external
- 1 ROI per frame (see Dual Video feature below)
- 4:1, 9:1 (both color and monochrome)
- N pixels: 2, 4, 6...30 by every M pixels: 2, 4, 6... 32
- Two programmable frames: Frame A and Frame B
- Manual, Auto, External Trigger
- 'M' (1 to 255) Frame A's, 'N' (1 to 255) Frame B's, repeat
- Independent control of each frame's: resolution, gain, offset, pixel averaging, sub-sampling, ROI, XDR
- External, pulse generator, software, computer
- Edge, debounce
- Internal, external, computer
- 1 LVTTTL + 1 OPTO
- 1 TTL + 1 OPTO
- 2 Strobes, programmable position and duration
- Yes, programmable
- Vertical/horizontal flip
- Defective/hot pixel correction (static, dynamic)
- F-Mount (Default), C, M42, EF
- 12VDC (10V-15V), 1.5 A inrush
- CLF TBD W, CXP TBD
- 70.0mm (W) x 70.0mm (H) - Applies to all interfaces
- CLF 86.0mm (L), CXP - TBD
- CLF TBD g, CXP - TBD g
- 100g (20-200) HZ XYZ, 1000g
- 40°C to +85°C Operating, -50°C to +90°C Storage
- 10% to 90% non-condensing
- >660,000 hours @ 40°C (Telcordia SR-322)
- FCC 15 part A, CE, RoHS



Power and I/O Interface:



- 1 12V DC Return
- 2 +12V DC
- 3 RS232-RX
- 4 RS232-TX
- 5 OUT2 OPTO -
- 6 OUT1 TTL Gnd
- 7 OUT1 TTL Signal
- 8 IN1 OPTO +
- 9 IN2 TTL Signal
- 10 IN1 OPTO -
- 11 IN2 TTL Gnd
- 12 OUT2 OPTO +

C2880 Ordering Information

Interfaces available

- Camera Link® Full (CLF)
- CoaXPress (CXP)

Sensor types available

- Monochrome
- Bayer Color

Lens Mounts

- F Mount (Default)
- C Mount
- M42
- EF

Accessories (Sold separately)

- PS12V04-Power Supply w/ 1 input and 1 output

