TAKEX

8,192 Pixels, 80kHz Scan rate, Camera Link compliant

TL-8K35ACL



(Lens optional)

Applications

- Inspection equipment for liquid crystal panel
- Image processing device for image inspection
- Measuring equipment such as appearance inspection device or dimensional measurement device
- Surface inspection device for sheet-like object
- High-resolution pattern inspection instrument
- Data entry device for image processing unit employing computer

Specifications

Image sensor	Global shutter CMOS
Number of pixels	8192
Pixel size	3.5µm×3.5µm
Photo array length	28.672mm
Scan rate (Data rate)	Full 80kHz (85MHz×8TAP) Full 44.7kHz (50MHz×8TAP) Base 18kHz (80MHz×2TAP)
Video output (Digital output)	8bit Full Configuration 8bit/10bit Base Configuration
Line transfer pulse input	12.5µsec (Min.)
Sensitivity	gain1=1.2, gain2= 4.8 DN/nJ/cm
Saturation exposure	23 ke-(typical value)
Dynamic range	60dB (on the element)
Output ununiformity	10% standard at 50% of saturation output
Power supply	$+12 V \pm 0.5 V (0.5A \text{ or less})$
Operational ambient temperature	$0\sim$ + 40 $^\circ C$ (with no icing or condensation)
Operational humidity range	85% Max
Storage teperature range	-10° +65 $^{\circ}$ (with no icing or condensation)
Weight	720g or less
External dimension	80(W)×100(H)×60.4(D) size except the salient
Lens mount	F mount
Additional function	FFC compensation Base / Full config. switchable Horizontal / vertical binning , horizontal/ vertical averaging Switchable clock speed

Overview

- The TL-85K35ACL inherits the specifications of the conventional model TL-8500CL, and has additional specifications the binning mode and the switching function of clock speed.
- Approximately twice the sensitivity is achieved by the vertical binning function.
- Since the configuration of the Camera Link (Base / Full Configurat ion) and clock speed (85/80/50MHz) are selectable, this camera can be set to a suitable video output format for the system.
- Since this model inherits the external dimentions and other specifications of the conventional model, it is easy to replace.
- Industrial digital Line scan camera equipped with a CMOS image sensor which has linearly arranged 8,192 photodiodes.
- CMOS line scan camera with 8,192 pixel resolution, 80/35kHz scan rate and 680/400/160MHz data rate.

Features

- It matches well to most of capture boards from other manufacturers, which makes it possible to construct high-precision image processing systems.
- Possible to get high-definition images thanks to 3.5µm square pixel size.
- Equipped with Global shutter function and FFC function.
- Anti-blooming function is incorporated.
- Possible to switch between Base and Full config. mode via serial communication.
- Equipped with versatile F-mount.
- Dark current correction circuit helps to obtain stable images even when the ambient temperature changes.
- The equipment operates with a single DC12V power source.
- Reduction in size and weight is achieved by original design.

Spectral Sensitivity





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