TAKEX

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

TL-8K7ACL



(Lens optional)

Applications

- LCD panel inspection equipment applications
- 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 write
- Data entry device for image processing unit employing computer

Specifications

Image sensor	Global shutter CMOS
Number of pixels	8192
Pixel size	7μm×7μm
Photo array length	57.344mm
Scan rate (Data rate)	Full 80kHz (85MHz×8TAP) Full 35kHz (40MHz×8TAP) Medium 35kHz (80MHz×4TAP)
Video output (Digital output)	8bit Full Configuration 8bit/10bit Medium Configuration
Line transfer pulse input	12.5µsec (Min.)
Sensitivity	gain1=1.2, gain2= 4.8 DN/nJ/cm
Saturation exposure	46 ke-(typical value)
Dynamic range	60dB (on the element)
Output ununiformity	10% standard at 50% of saturation output
Power supply	+12 V ± 0.5 V (0.5A or less)
Operational ambient temperature	$0{\sim}+40^\circ\!\!C$ (with no icing or condensation)
Operational humidity range	85% Max
Storage teperature range	$-10^\circ\!\!C\!\!\sim\!\!+65^\circ\!\!C$ (with no icing or condensation)
Weight	720g or less
External dimension	100(W)×100(H)×34(D)
Lens mount	M72, P=0.75mm
Additional function	FFC compensation Base / Full config. switchable Horizontal / vertical binning , horizontal/ vertical averaging Switchable clock speed

Overview

- The TL-8K7ACL 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 /Medium/ Ful I Conf igurat ion) and clock speed (85/80/40MHz) 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 680/320MHz data rate.

Features

- Since various models of capture boards from board manufacturers can be connected, it is easy to get highprecision images from the camera.
- 7µm square pixel size provides high-definition images.
- Equipped with Global shutter function and FFC function.
- Anti-blooming function is incorporated.
- Clear image data is obtained by the small difference of the characteristics of the odd and even-numbered pixels.
- Dark current correction circuit helps to obtain stable images even when the ambient temperature changes.
- DC 12V single power operation.
- Rduced size and weight by original design.

Spectral Sensitivity





• It may be changed without a notice about all items (product name, a model, specifications, external form dimensions, materials, the price)explained by this catalogue. • We do not take responsibility about any accident damage by an error in the use of deficiency in the construction and deficiency of the maintenance check and this product, the natural disaster (surge, including lightning-induced).

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