![Allied Vision logo]

allPIXA evo CXP
allPIXA evo 8k CXP Z

General

Model:	allPIXA evo 8k CXP Z
Product code:	CP000620-S-08K-33-F1-C1-Z
Product series:	allPIXA evo CXP
Status:	Available

Sensor

Sensor type:	Line scan 2D
Chroma:	Color+Mono+NIR
Spectrum:	Visible-NIR
Spectral range:	360 nm to 960 nm
Resolution:	8,192 × 4 lines
Sensor architecture (material):	cmos
Pixel size:	5.00 µm × 5.00 µm

Pixel formats

Data format:	3 × 8/10/12 Bit color or1 × 8/10/12 Bit mono or4 × 8/10/12 RGB + NIR

Timing and gain

Max. line rate single-line:	100 kHz
Max. line rate tri-linear:	100 kHz
Max. line rate quad-linear:	100 kHz

I/Os and power

I/O connector:	External I/O (15 pin HD D-Sub, fem.)
Power supply:	12 V – 24 V DC ± 10 %; 1 A @ 24 V
Power consumption:	External: 24 W

Mechanical properties

Body dimensions (L x W x H in mm):	102 × 76 × 82
IP class:	IP50
Lens mount(s):	M72 × 0.75 mm / F-mount
Weight:	900 g

On-board memory and FPGA

Non-volatile memory (Flash):	32 KByte

Interfaces

Digital interface:	4 × cxp-12 micro-bnc
Interface connector:	Micro-BNC
Vision standard:	CoaxPress

FW features - image control

Exposure modes:	manual
Gain modes:	auto, manual
White balance modes:	auto, manual

Quantum Efficiency

Y-Y

M72x0.75

9±0.1

1)
Photosensitive Surface
of CMOS-Sensor

17

Center of Lens Mount

51±0.1

2)

2a

Y

4E7
5deep

4E7
5deep

38±0.1

10±0.1

6±0.1

90±0.1

102±0.2

Y

2±0.1

46±0.1

76±0.2

15±0.1

4)

Fan

CoaXPress (4x)
Port (0-3)

Power

chromasens

allPIXA evo

4)

10±0.1

85

(86.9)

10±0.1

FAN

0 1 2 3

PWR

I/O

Status

I/O Interface

Configuration
UART

Status LED

101

10±0.1

11±0.1

80±0.1

M4x6
14x
-4x/2x on the wide sides
-4x on front
-2x on both small sides
max. 3.0Nm

1) Photosensitive Surface of Sensor:
17,0mm (optical, with sensor glas elongation)
16,76mm (mechanical),
-> 3D-Model geometry is in consideration of the optical path.
-> sensor tolerances according user manual

2) Positioning Hole ⌀ 4E7 for Pin ⌀ 4mm (Tolerance m6)
and floating side 2a) (4E7x3mm).

3a) threads for cooling options M4x8 max. 1.0Nm
3b) threads for cooling options M4x4 max. 1.0Nm
   (ask for Accessoires)

4) Thermal pad for Cooling options (see accessoires)

Positioning and Tolerances according to User Manual

ISO 128		Tol ISO 8015 DIN 2768 - mH	ISO 1302		Massstab 1:1		Creo4.0
					CP000620-9-08K-33-Z		
			Datum:	12.02.2021			
			Name:	Joggerat		allPIXA evo 8K CxP4-Z	
			Gepr.:				
01	-	-	-		Chromasens GmbH		Blatt
Zust	Mitteilung	Datum	Name			CM060-B650-V1012-C	1 /1