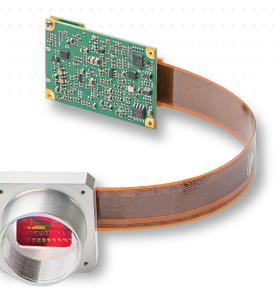
elink

PL-D726 CMOS | ONSEMI IBIS4 | ROLLING SHUTTER

The PL-D family of cameras links together the benefits of high frame rate CMOS technology with the high speed data throughput of USB 3.0 technology. The PL-D726 camera provides low noise images for outstanding value for a broad range of industrial applications.



KEY FEATURES

6.6	5 MP
CN	NOS



3.5 um



12-BIT





13.05 mm

1″

MONO

USB 3

- **TYPICAL APPLICATIONS**
- Parts inspection
- Strength Testing

- Metrology
- Medical Imaging

- Biometrics
- PCB & Flat Panel Display Inpsection



1.833.247.1211 (North America) +1.613.247.1211 (International)

Technical Specifications .

SENSOR	
Sensor	onsemi IBIS 4
Туре	CMOS Rolling Shutter
Resolution	6.6 MP (2208 x 3000)
Pixel Pitch	3.5 μm x 3.5 μm
Active Area	13.05 mm diagonal
Peak QE	25% @ 675nm

PERFORMANCE SPECIFICATIONS			
FPN	< 0.2% of signal		
PRNU	< 1.7% of signal		
Dynamic Range	60 dB		
Bit Depth	8 bit or 12 bit		
Mono Data Formats Mono 8, Mono 12 Packed & Mono 16			

FRAME RATES			
Resolution	Free Running		
2208 x 3000	5.3 fps		
1280 x 1024	25 fps		
640 x 480	88 fps		

* Frame rate will vary based on host system and configuration.

** Above calculations based on fixed frame rate mode

INTERFACES

Interface Data Rate	USB 3.0 Micro-B 5Gbps
Board Level Trigger Connector	8-pin Molex 1.25 mm pitch
Enclosed Trigger Connector	Hirose round 8-pin
Trigger	Software and hardware
Board Level Trigger Input	1 input, 3.3v (with internal pullup resistor)
Enclosed Trigger Input	1 optically isolated, 5-12V DC at 4-11 mA
Board Level GPO/Strobe	2 outputs, 3.3V
Enclosed GPO/Strobe	2 outputs, 3.3V and 1 optically isolated max 40V DC, max 15mA
GPI	1 input, 3.3v (with internal pullup resistor)

MECHANICALS

Dimensions (mm)	16.34 x 17.24 x 7.8
Weight (g)	35.8 (without optics)
Mounting	C-Mount

POWER REQUIREMENTS

Voltage Required

5V DC (from USB connector)

BOARD LEVEL GPIO INTERFACE PIN NAME & DESCRIPTION

1	3.3V power output
2	TRIGGER/GPI 3.3V HCMOS input
3	Ground
4	GPO1, 3.3V HCMOS output
5	GPO2, 3.3V HCMOS output
6	Clock, 3.3V (I2C access for OEMs)
7	Data, 3.3V (I2C access for OEMs)
8	No Connection
	Board connector: Molex (8-pin, 1.25mm pitch, vertical) Cable receptacle: Molex 51021-0800; Cable crimp terminals: Molex 50079-8100

ENCLOSED GPIO INTERFACE PIN NAME & DESCRIPTION		
1	VBUS (Power output from USB3 cable)	
2	TRIGGER + (optically isolated)	
3	TRIGGER - (optically isolated)	
4	GPO1 + (optically isolated)	
5	GPO1 - (optically isolated)	
6	GPO1, 3.3V HCMOS output (12C- SCL for autofocus)	
7	GPO2, 3.3V HCMOS output (12C- SDA for autofocus)	
8	Ground (logic and chassis ground)	

ENVIRONMENTAL & REGULATORY			
Compliance	FCC, CE & RoHS		
Operating Temperature	0°C to 50°C		
Storage Temperature	-45°C to 85°C		

SOFTWARE			
Pixelink Capture	Control & operate multi-camera		
Pixelink SDK	Software Development Kit		
Pixlink μScope Acquisition, analysis & reporting			
3rd. Party U3V Vision Applications			

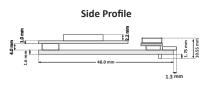
COMPUTER & OPERATING SYSTEM (minimum requirements)

	Windows	Linux x86	Linux ArmV7	Linux ArmV8
Processor	Intel i5	Intel i5	Arm 7 (32 bit)	Arm8 (64 bit)
Memory	4GB recommended	4GB recommended	2GB	2GB
Hard Drive	150 MB	150 MB	50 MB	50 MB
Operating System	Windows 7/8/10	Ubuntu 16.04 18.04 20.04	Ubuntu 16.04 18.04	Ubuntu 16.04 18.04



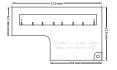
1.833.247.1211 (North America) +1.613.247.1211 (International)

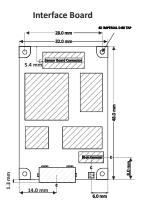
Mechanical Drawing

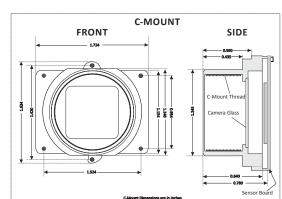


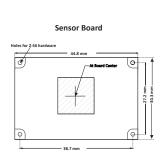
Rear Profile

Trigger/GPO Connector Adapter

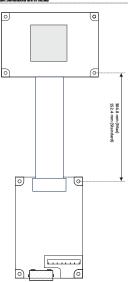








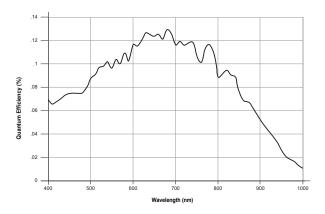
Drawing is not to scale



. . .

Responsivity Curve - Mono

Monochrome Quantum Efficiency





1.833.247.1211 (North America) +1.613.247.1211 (International)

Industry Leading Software ...

PIXELINK CAPTURE

Pixelink Capture is powerful multi-camera software application designed to configure "n" number of cameras and stream "n" number of cameras simultaneously in real-time high-quality video viewed in a multi-window environment. It offers options for complex image enhancements such as exposure control and filtering, in addition to multi-camera application testing and configuration.

Pixelink Capture features allows you to measure supporting point, line, circle, rectangle, polyline and polygon measurements while determining pixel location. The user can review and adjust data before exporting the findings to an Excel spreadsheet for further analysis.

Pixelink Capture also has integrated lens control (zoom & focus) for Navitar motorized lenses and accurate autofocus options for Navitar motorized fine focus mechanisms.

PIXELINK SDK

Providing full control of all camera functions, the Pixelink Software Development Kit (SDK) is the software package of choice for developers and system integrators who are integrating Pixelink cameras into their applications. The Pixelink SDK provides access to the full Pixelink Application Programming Interface (API) and provides sample applications, wrappers for many 3rd party controls, such as LabVIEW, along with full documentation.

The Pixelink SDK is compatible with Microsoft Windows and popular Linux platforms. When using the Pixelink SDK, developers can integrate Pixelink cameras into their applications with ease.

AVAILABLE CONFIGURATIONS PL-D76MU-BL

COLOR SPACE

C = Color M = Mono NIR = Near Infr<u>ared</u>

INTERFACE

F = Firewire G = 10 GigE U = USB

HOUSING

CS = CS Mount S-BL = S-Mount Board Level BL = Board Level T = Trigger



1.833.247.1211 (North America) +1.613.247.1211 (International)