

SENSOR

Sensor	CMOSIS 2000
Type	CMOS Global Shutter
Resolution	2048(H) x 1088(V) 2.2 MP Color & Mono (STD or NIR)
Pixel Pitch	5.5 μm x 5.5 μm
Active Area	11.26 mm x 5.98 mm - 12.75 mm diagonal
Peak QE	63 %
Max Datarate	480MHz

PERFORMANCE SPECIFICATIONS

FPN	< 0.1 % of signal
PRNU	<2% of signal
Dynamic Range	60 dB
Sensitivity	5.56 V/lux.s (with microlenses @ 550nm)
Bit Depth	8 or 10-bit
Color Data Formats	Bayer 8, Bayer 16 and YUV422
Mono Data Formats	Mono 8 and Mono 16

MECHANICALS

Dimensions	38.5 x 55 x 30.6 mm
Weight	35.8 g (without optics)
Mounting	Four M2 holes
Lens Mount	C-mount, CS-mount and S-mount

INTERFACES

Interface / Data rate	USB 3.0/ Micro-B / 5Gbps
Board Level Trigger Connector	8-pin Molex 1.25mm pitch
Enclosed Trigger Connector	Hirose round 8-pin
Trigger Modes	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

FRAME RATES

Resolution	Free Running
2048 x 1088	170
1920 x 1080	170.8
1280 x 1024	180.1
640 x 480	380.4

Frame rates will vary based on host system and configuration

BOARD LEVEL GPIO INTERFACE PIN OUTPUT DESCRIPTION

Pin	Pin Name & Function
1	3.3V power output
2	TRIGGER, 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 OEM's)
7	Data, 3.3V (I2C access for OEM's)
8	No connection

Board connector: Molex 53398-0871 (8-pin, 1.25mm pitch, vertical)
Cable receptacle: Molex 51021-0800
Cable crimp terminals: Molex 50079-8100

ENCLOSED GPIO INTERFACE PIN OUTPUT DESCRIPTION

Pin	Pin Name & Function
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
7	GPO2, 3.3V HCMOS output
8	Ground (logic and chassis ground)

POWER REQUIREMENTS

Voltage Req.	5V DC (from USB connector)
--------------	----------------------------

SOFTWARE

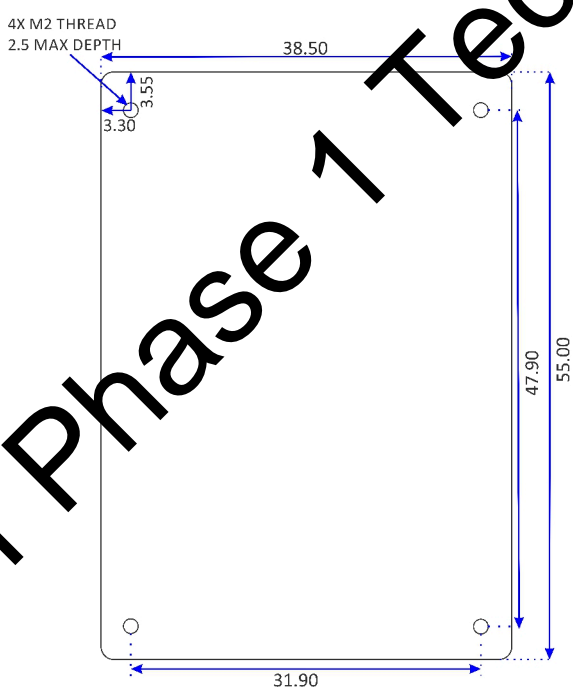
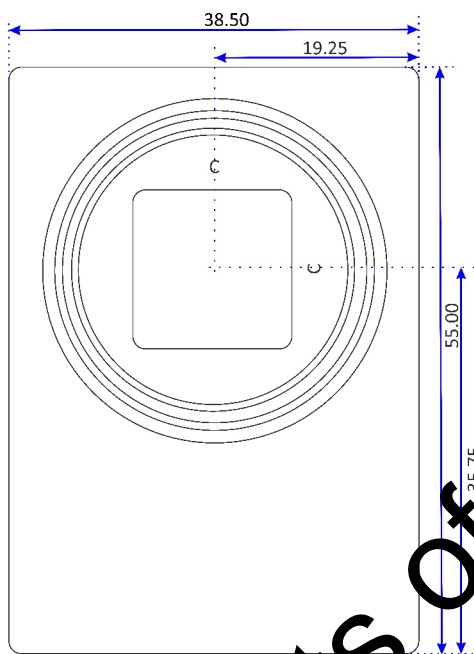
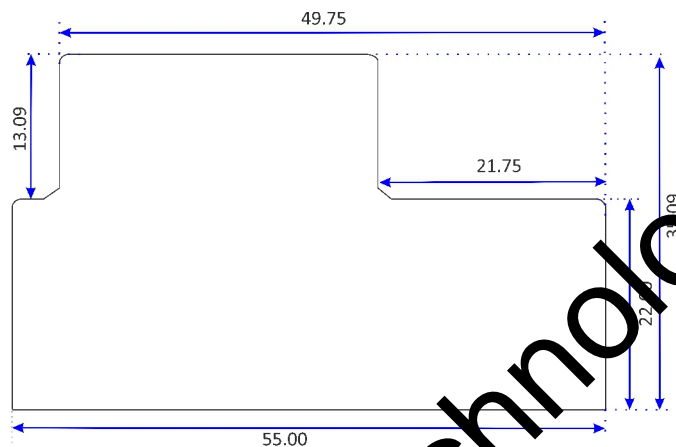
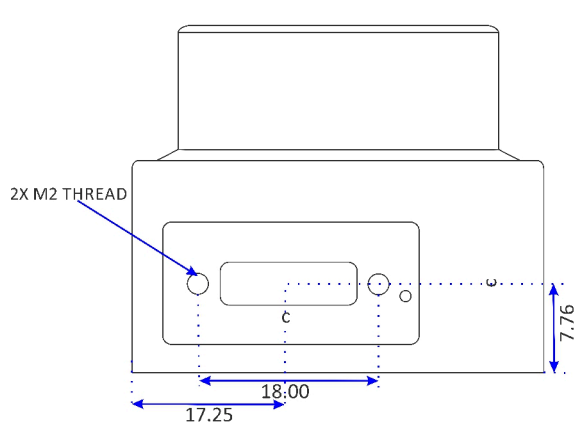
PixelINK Capture OEM	Free Download (www.pixelink.com)
DirectShow	Bundled with PixelINK Capture OEM
TWAIN	Bundled with PixelINK Capture OEM
SDK (Sold Separately)	API, sample code and LabVIEW wrappers

ENVIRONMENTAL & REGULATORY

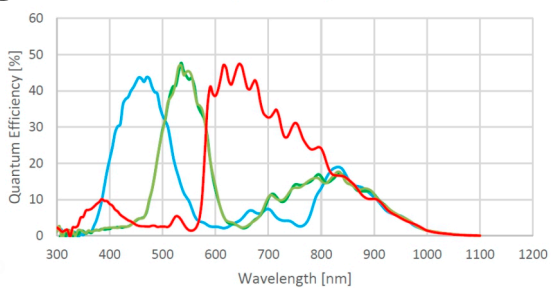
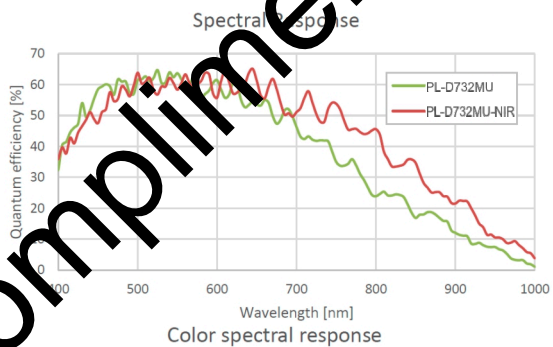
Compliance	FCC Class B, CE & RoHS
Shock & Vibration	300 G & 20 G (10Hz - 2KHz)
Operating Temp.	0°C to 50°C (non-condensing)
Storage Temp.	-45°C to 85°C

COMPUTER & OPERATING SYSTEM

Processor	Intel i5 or better
Memory	4 GB recommended
Operating System	Windows 7 / Windows 8
Hard Drive Space	75 MB



RESPONSIVITY CURVE



ORDERING GUIDE

	Color	Mono	NIR
Board Level	PL-D732CU-BL	PL-D732MU-BL	PL-D732MU-NIR-BL
Enclosed Model	PL-D732CU	PL-D732MU	PL-D732MU-NIR
GPIO Enclosed Model	PL-D732CU-T	PL-D732MU-T	PL-D732MU-NIR-T

Compliments of Phase 1 Technology