



SW-4000T-MCL 3CMOS棱镜式线阵相机



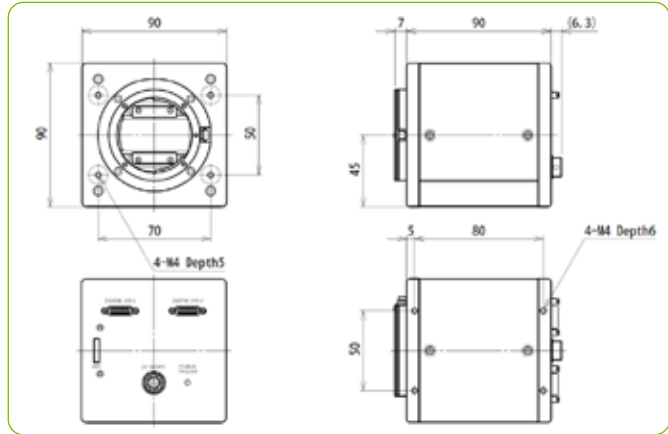
- 世界顶级4096pixels x 3CMOS 棱镜式线阵相机
- 单向透光棱镜设计, 使用独立的三个sensor对三原色(RGB)成像
- 棱镜相机特有的、对色彩忠实的还原性
- 搭载 新技术的CMOS sensor
- 有两个像元尺寸可以设定切换 (7.5 μm x 7.5 μm , 7.5 μm x 10.5 μm)
- 支持垂直binning和水平binning
- 最大行频高达 67.7 kHz
- 支持flat shading, color shading补偿
- 支持色彩空间格式转换 (HSI, XYZ, sRGB, Adobe RGB)
- 支持旋转编码器
- 支持多种触发选项(trigger option)
- 图像输出 (3 x 8-bit, 3 x 10-bit) Camera Link
- 优秀的耐冲击和耐震动性能
- 支持GenICam

规格		SW-4000T-MCL
Scanning system	3 个高速线阵 CMOS sensor, 相机内置分光棱镜	
有效像素	4096 (h) x 3 (R,G,B)	
像元大小	Mode A: 7.5 μm x 7.5 μm Mode B: 7.5 μm x 10.5 μm	
光学尺寸	30.72 mm	
图像输出	Camera Link Base (8-bit RGB8) Camera Link Midium (8/10-bit RGB8, RGB10) Camera Link Full (8-bit RGB8) Camera Link Deca (8-bit RGB8)	
Pixel clock (CL)	42.5 / 63.75 / 85 MHz	
Binning	2x1, 1x2, 2x2	
最大行频	67.7 kHz	
Object illuminance (std.)	220 lx @ 7800 K (Gain 18 dB, 525 μs exp., 50% video, RGB8)	
Responsivity	123 DN/n/cm ² (Gch 10-bit @ 550nm)	
S/N	>55 dB on green, 10-bit with 0 dB gain	
GPIO	Inputs	Camera Link: LVDS (CC1) 12-Pin: Opto Coupled, TTL (1) AUX: TTL (2)
	Outputs	12-Pin: TTL (2) AUX: TTL (2)
Internal non-volatile flash memory	256Mb	
曝光模式 / 曝光时间	Off / Timed / Trigger Width Timed: 3.0 μs ~ 15.149 ms Trigger Width: 3 μs ~ 2s (CL) 50 μs ~ 2s (12pin)	
图像处理功能		
Shading 补偿	Flat shading, Color shading	
Gain	Analog Base Gain : 0dB / 6dB / 12dB Digital Master : 0 to +18dB, R/B : -7.96 to +12dB Digital Individual : 0 to +24dB	
白平衡	Off / Once / ExposureOnce / Preset(5000K, 6500K, 7500K)	
LUT Programmable	257 point	
Gamma	1.0 to 0.45 (9 steps)	
FPN correction	PRNU, DSNU	
色彩空间格式转换	HSI, XYZ, sRGB, Adobe RGB, User Custom RGB	
通信接口	12-pin, Auxiliary (AUX) connector, Camera Link	
	Baud Rate	9600bps (Default), 19200bps, 38400bps, 57600bps, 115200 bps
工作温度	-5°C to +45°C	
保管温度	-25°C to +60°C	
湿度	20 - 80% (non-condensing)	
耐震动	3G (20 Hz to 200 Hz XYZ direction)	
耐冲击	50 G	
规格	CE (EN 61000-6-2, EN 61000-6-3), FCC part 15 class B, RoHS/WEEE	
电源电压	12-pin: DC12~24 V+/-10% 9.3 W typical @ 12V	
镜头口	F口 (flange back distance 46.5mm), M52口 (flange back distance 46.5mm)	
外形尺寸 (H x W x L)	90 mm x 90 mm x 90 mm	
重量	765 g	

型号

SW-4000T-MCL-F	3-CMO棱镜式线阵相机 (F口)
SW-4000T-MCL-M52	3-CMO棱镜式线阵相机 (M52口)

外形尺寸



连接

DC In / Trigger

HIROSE HR10A-10R-12PB(71)

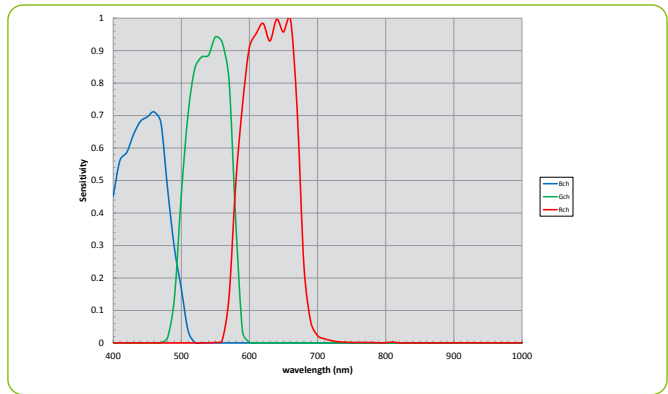
Pin	Signal
1	Ground
2	DC in +12V to +24V
3	Ground
4	Reserved
5	Opto in 1-
6	Opto in 1+
7	TTL out 4
8	NC
9	TTL out 1
10	TTL in 1
11	DC in +12V to +24V
12	Ground

AUX

HIROSE 3240-10P-C(50)

Pin	入出力	信号
1	Out	TTL OUT ₂
2	Out	TTL OUT ₃
3	In	TTL_IN ₂
4		N.C
5	GND	GND
6	IN	TTL_IN ₃
7		N.C
8		N.C
9	GND	GND
10	GND	GND

分光感度特性



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