



a TKH Vision brand

SHR CoaXPress

shr411CCX

德国制造的最高分辨率

SHR 系列结合了大像素结构和最高分辨率。大像素的物理特性保证了出色的图像质量。通过缺陷像素连接对像素进行高质量的协调，可确保图像无噪声。此外，在坚固、热性能高度优化的外壳中，传感器的调整具有最高的结构精度。大型 M72 镜头卡口可适用于任何镜头。这使得 SHR 能够胜任最苛刻的光学任务。

经济实用的高性能 CoaXPress 接口可实现最快的数据传输，并具有出色的延迟特性。该相机配备了广泛的 I/O 接口，具有电隔离接口、定序器和集成的多通道 LED 灯光控制。

技术亮点

- 出色的图像质量
- 高动态范围
- 出色的图像均匀性
- 用户自定义镜头阴影校正
- 用户自定义像素校正
- 高速 CXP-6 和 CXP-12 四接口
- 带有施密特触发器和去抖器的安全信号
- 工业 I/O 概念：最高 24 V 信号电压
- GenICam 接口
- 带安全触发器、可编程逻辑功能、定序器、定时器和 RS232 的工业 TTL-24V I/O 接口
- CoaXPress 特有功能
- 四路 CoaXPress-6 或 CoaXPress-12
- CoaXPress 电源

SHR 为晶圆、平板或太阳能电池板行业的检测任务提供了出色的性能。CoaXPress 版本可提供长距离数据电缆。



LED
4 INTEGRATED
LED CONTROLLERS

SEQ
INTEGRATED
SEQUENCER

STT
SAFE TRIGGER
TECHNOLOGY

PLC
PROGRAMMABLE
LOGIC CONTROL

Specifications

| | |
|--------------------|---------------------------------------|
| Resolution [MP] | 151 MP |
| Resolution (h x v) | 14192 x 10640 px |
| Frame rate (max.) | 6.1 fps |
| Chroma | color |
| Interface | CXP-6 with 4 Connections (Din1.0/2.3) |

Sensor

| | |
|---------------------|------------------|
| Sensor | IMX411AQR |
| Manufacturer | Sony |
| Sensor type | Area CMOS |
| Shutter type | rolling shutter |
| Sensor size (h x v) | 53.36 x 40.01 mm |
| Optical diagonal | 66.69 mm |
| Sensor format | Medium Format |
| Pixel size (h x v) | 3.76 x 3.76 μm |

Camera

| | |
|---------------------|--|
| Exposure modes | MANUAL;AUTO |
| Trigger modes | INTERNAL;SOFTWARE;EXTERNAL |
| Exposure time (min) | 60 μs |
| Exposure time (max) | 10 sec |
| Pixel format / max | bayer8, bayer10, bayer12, bayer16 / 16 bit |
| Gain modes / max | manual, auto / 36 dB |
| S/N ratio (max) | 46.7 dB (dep. on environment) |
| Dynamic range (max) | 82 dB (dep. on environment) |
| Internal memory | 512 MB SDRAM, 160 MB Flash |

Feature Set

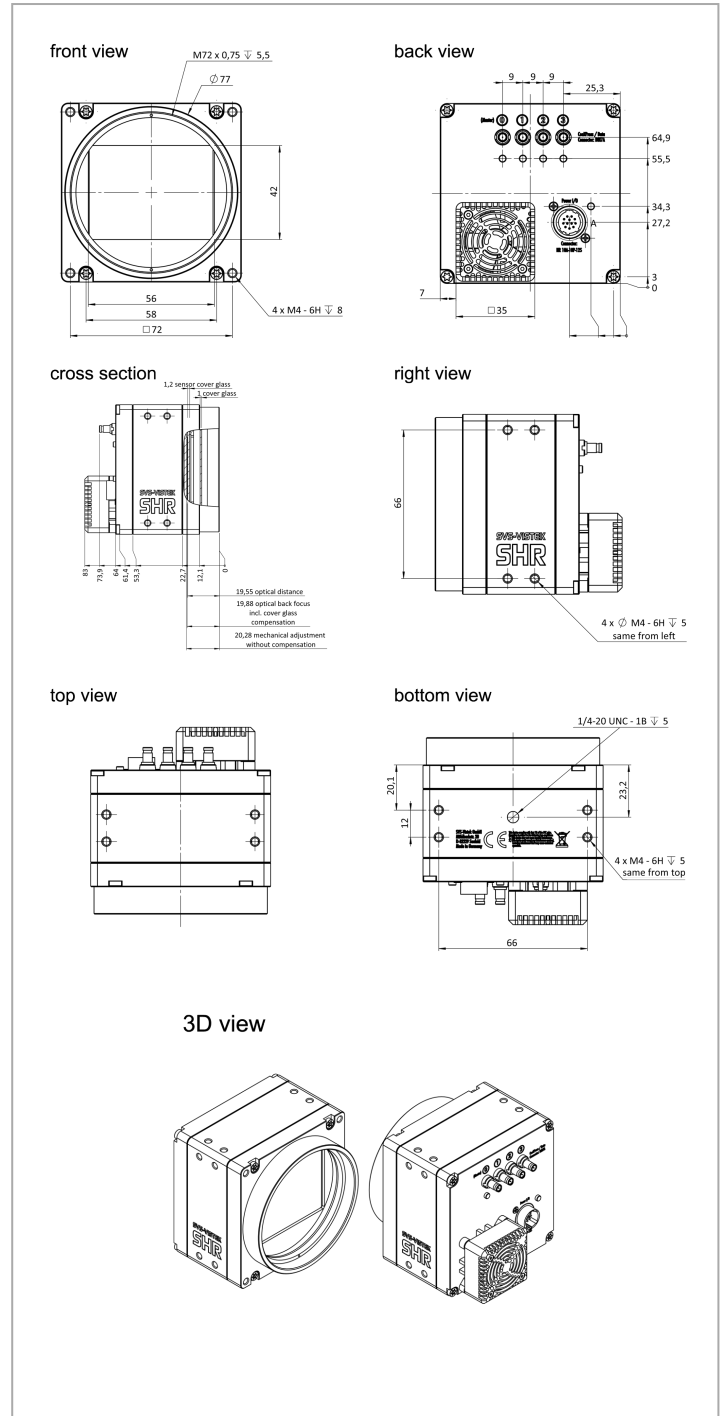
| | |
|-------------------------|----------------|
| Manual white balance | yes |
| Automatic white balance | yes |
| AOI | yes |
| LUT | yes |
| Offset | yes |
| Binning | yes |
| Image flip | yes |
| Shading correction | yes (external) |
| Defect pixel correction | yes |
| Sequencer | yes |
| PoCXP | yes |

Housing

| | |
|---------------------------------|-----------------------------|
| Lens mount | M72x0.75 |
| Dimensions (w x h x d) | 80 x 80 x 83 mm |
| Weight | 600 g |
| Operating temperature (housing) | -10 to 65 °C |
| Ambient humidity | 10 to 90 % (non-condensing) |
| Protection class | IP30 |
| Filter-/Coverglass | IR-Cut - 680nm |

I/O-Interfaces

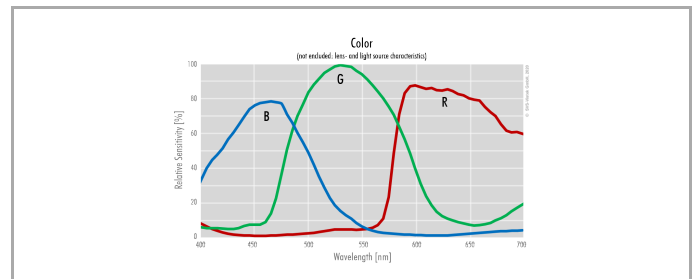
| | |
|-------------------|-------------------------------|
| Input up to 24V | 2 x |
| Input OPTO | 1 x |
| Output open drain | 4 x |
| I/O RS-232 | 1 x |
| Power supply | 10 to 25 V (DC) |
| Power consumption | 14 W (dep. on operating mode) |



Pinout Mating Connector

| | | | | |
|--|---|-------------------------|----|--------------------|
| | 1 | VIN - (GND) | 7 | OUT 1 (open drain) |
| | 2 | VIN + (10 V to 25 V DC) | 8 | OUT 2 (open drain) |
| | 3 | IN 4 (RXD RS232) | 9 | IN 3 + (opto In +) |
| | 4 | OUT 4 (TXD RS232) | 10 | IN 3 - (opto In -) |
| | 5 | IN 1 (0 - 24V) | 11 | OUT 3 (open drain) |
| | 6 | IN 2 (0 - 24V) | 12 | OUT 0 (open drain) |

Spectral Response *



* 传感器数据 - 不包括相机遮光或红外截止滤光片特性

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