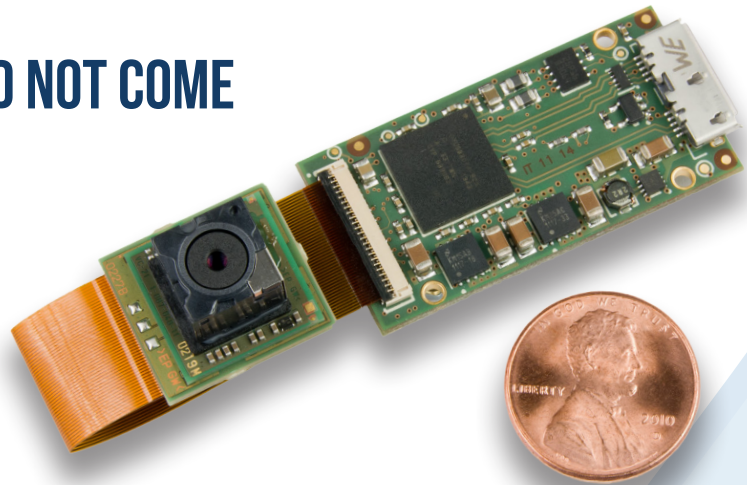


THE **BIG** PICTURE NEED NOT COME FROM A BIG CAMERA.



The PM-CIBU-130 USB 3.0 Camera Interface Board enables compact imaging solutions with the Sony FCB-MA130 camera.

The Pegasus CIBU-130 module is a tiny, highly compact USB 3.0 interfacing and video capture solution for the recently available Sony FCB-MA130, an extremely small form factor (16x18 mm) 13 megapixel camera module.

The CIBU-130 is engineered to take full advantage of the FCB-MA130's compact size. Measuring at only 41.5 x20mm, the module allows creation of truly compact USB 3.0 camera systems with the FCB-MA130. The image data from the FCB-MA130 camera is received by the CIBU-130 and output to the USB 3.0 host computer formatted as UVC (USB Video Class) data packets. Thus transmitted video can be received by any USB 3.0 host, running Windows, Mac OS, or Linux. Single shot mode is available for full size, 13 megapixel images. Low resolution modes are provided for USB 2.0 operation.

When streaming video, the FCB-MA130 can output resolutions up to 1080p at 30 frames per second, which can be reliably streamed to a USB 3.0 host by the CIBU-130. The camera itself can be controlled through the parameter controls provided by the UVC class, as well as through a separate USB Human Interface Device (HID) configuration channel allowing the full control of the capabilities of the FCB-MA130.

With the extremely compact size and easy installation, the CIBU-130 is the optimum solution for small form factor USB 3.0 cameras usable in various applications.

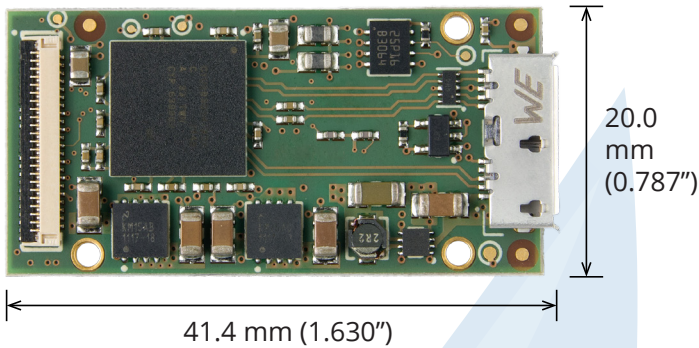
Features

- ◇ Interfaces to Sony FCB-MA130
- ◇ USB 3.0 SuperSpeed Interface
- ◇ USB Video Class Streaming
- ◇ Fully USB Powered
- ◇ Video
 - 720p30
 - 1080p30
- ◇ Still images
 - up to 13 Mpix

Advantages

- ◇ Small footprint
- ◇ Robust design
- ◇ Lightweight
- ◇ Enables all camera features
- ◇ USB 2.0 backward compatible

Specifications



The CIBU-130 also includes nonvolatile storage allowing the storage of camera parameters. Firmware can be updated in the field over the USB interface at any time. The default setup provides 1080p30 video streaming with the FCB-MA130 connected directly out of the box.

The CIBU-130 interfaces with the FCB-MA130's parallel CMOS interface. YCbCr 4:2:2 data is transferred over a 45 pin, 0.5mm pitch FFC/FPC cable. USB 3.0 power is sufficient to power both the camera module and the CIBU-130, removing the need for a separate power supply. All of the required voltage regulators required to power the FCB-MA130 camera module are integrated. Less than 30% of USB 3.0 provided power is used, which allows the remaining power budget to be used for illumination or other application-specific uses.

Applications

Machine vision; Inspection; Microscopy; Surveillance; Medical imaging; Unmanned Aerial Vehicles (UAVs); Remotely Operated Underwater Vehicles (ROVs)



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Output modes (Video)	1920x1080 (Full HD) 1600x1200 (UXGA) 1280x960 (SXGA) 1280x720 (HD) 1024x768 (XGA) 800x480 (WVGA) 640x480 (VGA)
Output modes (Still)	4192x3104 4128x3096 3264x2448 2592x1944 1920x1080 1280x960 1280x720 640x480
Camera control	USB Video Class Controls HID Interface
Connectivity (input)	Sony FCB-MA130 16-bit CMOS Parallel YCbCr 4:2:2 45-pin 0.35mm pitch FPC/FFC Cable Matching p/n (Molex): 15015-0245
Connectivity (output/control)	USB 3.0 SuperSpeed USB 2.0 High Speed Micro USB 3.0 "B" type connector
Power	5V (USB 3.0 Power)
Dimensions	41.50 x 20.00 x 4.65 mm (1.634" x 0.787" x 0.183")
Weight	4.300 grams (0.152 oz.)
Mounting	3x M1,6 mounting holes
Environmental	-40°C - 85°C (operation) -40°C - 85°C (storage) <95% Humidity (no condensation)