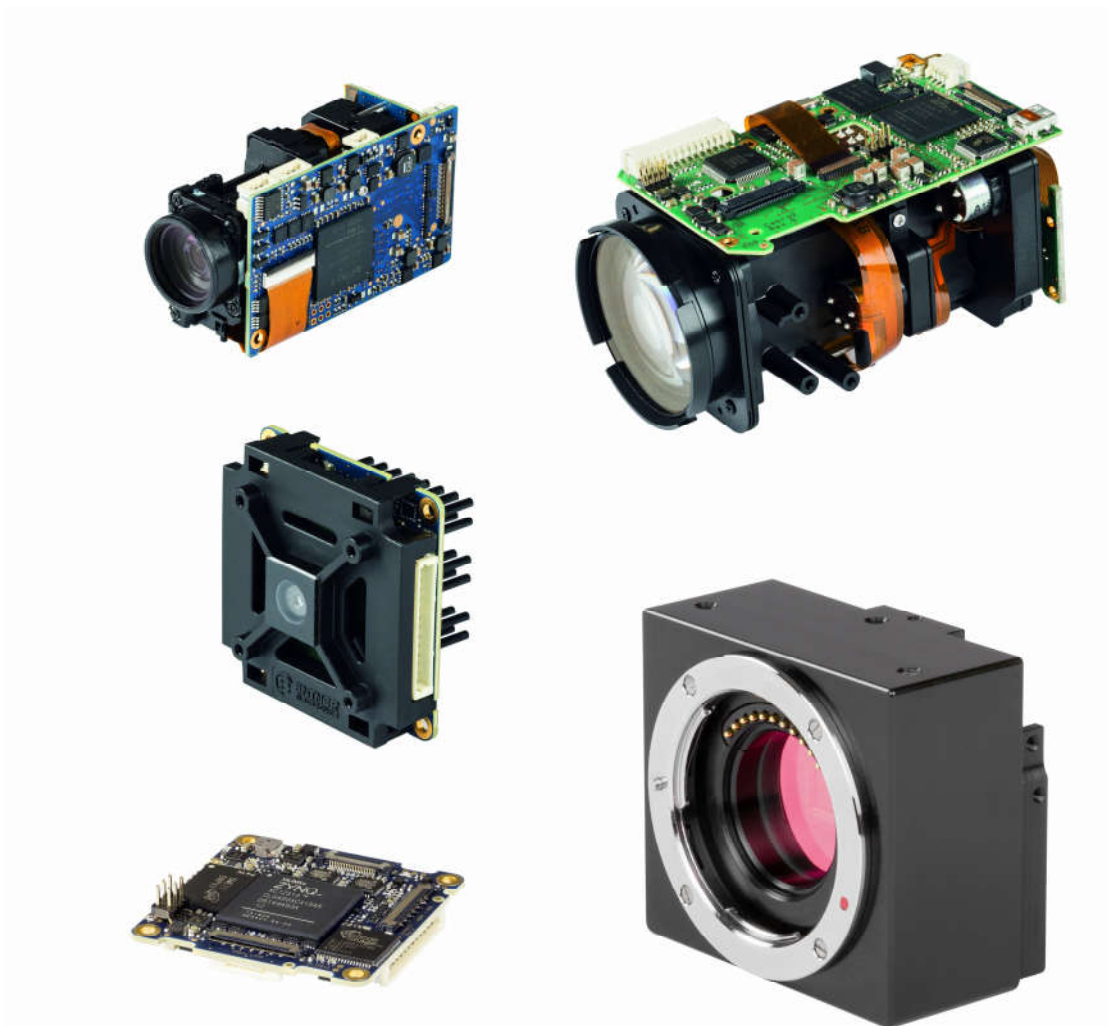**Entner Electronics**

3rd Generation Camera Features

The Future of Embedded Vision

Based on the success of our 2nd generation OEM camera modules we are currently designing a new standard camera family with a ground-breaking level of integration. All members share a similar electronic design.

Linux-based / Many Interfaces

The electronic design is built around a FPGA with an integrated dual-core ARM system. Many interfaces like HDMI, 30pos LVDS, USB device, USB host, Gigabit Ethernet and SD card are supported. To make full use of these interfaces a Linux operating system is running inside the camera.

Typical use cases are supported by the camera "out of the box", no special programming is required. However, for special applications the customer can execute his own programs inside the camera, e.g. for image-processing, special interface protocols or user-defined OSD.

Break-out Boards

Because of the numerous interfaces it is not feasible to put the respective industry-standard connectors onto the camera. Also customers often have special mechanical requirements. Therefore, all interfaces are accessible via small KEL micro-coax, JST or FFC connectors. These can be routed to simple break-out boards which can be either our standard boards (e.g. for evaluation or when they fit the application) or custom designed boards. Example schematics can be provided to the customer.

Examples of standard break-out boards   Examples of custom break-out boards (with added functionality)

Classic Features

Of course our new family will support improved versions of "typical Entner features" like lens distortion correction, temporal noise filtering and MJPG compression.

Key Products

Model	Resolution	Zoom	Remarks
UC-200	13MP / 1080p	AF only	High quality digital zoom
UC-203GS	1080p	3.3x (15-50mm)	Global shutter for ITS and surveillance
UC-310	3MP / 1080p	10x	Super compact
UC-318	3MP / 1080p	18x	All-round product
UC-803	2160p	3.3x (15-50mm)	4K
FCB-IF-FLEX	1080p		Interface for FCB camera modules
LUCY-CS20	1080p	C-Mount	High-Speed, no HDMI
LUCY-MFT80	8MP	MFT-Mount	High-Speed, "active" MFT mount, no HDMI

Availability

The family will be rolled out through-out 2017 with the UC-200 being the first product to be released.

Preliminary information – specification and availability subject to change without notice

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