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UC-310

3MP Super Compact 10x Zoom Camera Module

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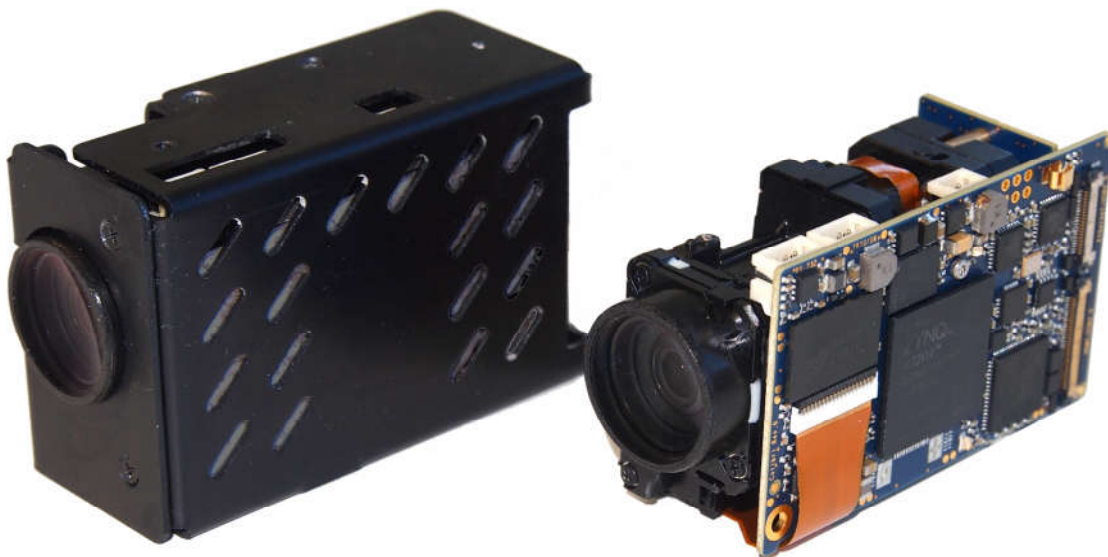
Overview

The UC-310 is a very compact highly integrated 3MP camera module with 10x zoom. Because of its small size it is ideally suited for applications where space and/or weight are a concern.

A special high speed readout technique greatly reduces the typical rolling shutter artefacts. Additionally, the camera is optimized for low latency.

It is part of our 3rd generation camera family which features on-board Linux (that can optionally be used for user applications) and many integrated interfaces including HDMI, Ethernet and USB that can be accessed via simple break-out boards.

Specifications

Supported Resolutions	2048 x 1536 @ 60fps (HDMI: 30fps) 1920 x 1200 @ 60fps 1920 x 1080 @ 60/50fps 1280 x 720 @ 60/50fps and more…
Pixel size / Sensor	1.55µm, BSI, CMOS, high speed ERS, Color
Optical zoom	10x
ZE (Zoom extension, more wide by using full sensor area)	1.2x when using 1080p (resulting in 12x quasi-optical zoom)
Digital zoom	Up to 4x possible as default
Focus	Automatic, one-push auto and manual
M.O.D.	0.01m (W) to 0.8m (T)
F Number	1.8 (W) to 3.4 (T)
Hor. FOV	56° (W), 5.4° (T)
Latency (HDMI and LVDS)	smaller than 1 frame
Outputs and Interfaces (UC-310-HDMI)	HDMI + VISCA / #SPEED USB 2.0 device (UVC) USB 2.0 host 1Gb Ethernet (RTP stream, web server) MIPI USB3.0 with special break-out board
Outputs and Interfaces (UC-310-LVDS)	30pos LVDS + VISCA / #SPEED USB 2.0 device (UVC) or host 1Gb Ethernet (RTP stream, web server)
Connectors	All outputs are available on micro-coax connectors (with optional break-out PCBs)
Power Supply	6V to 12V DC, ca. 5W
Dimensions	27mm x 40mm x 63mm (including metal frame)
Weight	75g (including metal frame)
Operating temperature	0°C to 40°C ambient, temperature of metal frame must be kept below 55°C
Further Notes	On-camera MJPEG compression Linux-based system: User can execute his own software on the camera if desired (e.g. for on-board processing, custom OSD, etc.)

Preliminary information – specification and availability subject to change without notice