

10x

Optical Zoom

64g

Low Mass



Low Latency

1440p

QHD

**2048
x
1536**

QXGA

1080p

FULL HD



HDMI



Ethernet



USB 2.0



ARM-Core



Compression



VISCA

UC-310

SUPER COMPACT, USER PROGRAMMABLE ZOOM CAMERA

Key Features

- ✓ No additional interface electronics required
- ✓ Optimized for ultra-low latency
- ✓ Low-weight & compact outline
- ✓ Support for Quad-HD, Full-HD & QXGA
- ✓ Built-In Linux processor
- ✓ Built-In webserver



Enhanced Performance

The UC-310 is a super compact software programmable camera.

The read-out electronics are optimized for an exceptional low-latency which ideal for remote controlled applications.

Video outputs from Full-HD to Quad-HD

The UC-310 camera allows you to produce razor-sharp videos from Full-HD to Quad-HD.

Hassle Free Integration

The camera is compatible with the industry standard VISCA communication protocol to allow for hassle free upgrading of existing imaging systems.

The camera utilizes an FPGA accelerated MJPEG compressor for the transfer of high resolution images while using a limited bandwidth.

Additional interface electronics is not required as all interfaces are embedded in the camera to provide the most common interface standards including HDMI, USB and Ethernet.

Software Programmable

An onboard ARM-based processor running on a Linux system is open to the user to integrating image processing functionality, OSD generation, file management systems and many other functions.

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Specification	
Model Name	UC-310
Camera	
Shutter Type	CMOS, double speed Rolling Shutter
Chroma	Color
Pixel Size	1.55µm
Supported Resolutions	2560x1440/30 2048x1536/30 1920x1200/60 1920x1080/60 1280x720/60 Other resolutions on request
Optical zoom	10x
Digital zoom	4x (Default)
Focus	Auto, 1-push, Manual
F-Number	1.8 (W) to 3.4 (T)
FOV (Hor.)	56° (W), 5.4° (T)
Camera control	VISCA or #SPEED
Compression	MJPEG
Interface	
Video & Control	LVDS, 4 or 8 lanes HDMI Ethernet – 1Gb USB2 Host & Device
System	UART GPIO
Physical	
Power	6 – 12V DC
Power consumption	~5W.
Dimensions	27x40x64mm
Mass	64g
Operating Temp.	0°C - 40°C
Storage Temp.	TBD
Operating Humidity	TBD
Storage Humidity	TBD
Processor	
Type	Dual ARM® Cortex®-A9
Linux system	Xilinx PetaLinux
Memory	Config. data Temp. data