

## CoolCube 4

Ultra-High Resolution  
CMOS Camera

Put your Metafer slide scanning platform to the next level with the CoolCube 4 and the CoolCube 4 TEC!

### USB-Cameras for Color and Monochrome Imaging

*Highest image quality at highest speed*

With the new camera model CoolCube 4, MetaSystems introduces the first ultra-high resolution camera supported by the Metafer slide scanning platform. Using a 1.1" CMOS chip with a pixel size of only  $3.45\ \mu\text{m} \times 3.45\ \mu\text{m}$ , all CoolCube 4 cameras acquire images with the size of  $4,096 \times 3,000$  pixels. This outstanding image size leads to much less acquisitions to cover a given area when compared with older camera models. Due to the finer pixel size, additionally much lower magnifications can be used to create excellent images from the microscope. Thus, on the automated scanning platform Metafer the new CoolCube 4 camera models speed up scanning remarkably. This is especially advantageous for the digitization of larger samples such as tissue sections, Gram samples, etc.

#### Configurations

The CoolCube 4 is available as standard model without active cooling, or as a thermo-electrically cooled camera (CoolCube 4 TEC). Both models can be ordered as monochrome or as color camera.



# COOLCUBE 4

## Technical Specifications

<i>Resolution/Pixel Size</i>	4,096 x 3,000 pixels; 3.45 µm x 3.45 µm
<i>Sensor</i>	1.1" CMOS, quadratic pixels, monochrome or color (BAYER pattern)
<i>Order Numbers</i>	<b>CoolCube 4m</b> (monochrome): <b>H-0310-031-MS</b> <b>CoolCube 4c</b> (color): <b>H-0310-032-MS</b> <b>CoolCube 4m TEC</b> (monochr.): <b>H-0310-033-MS</b> <b>CoolCube 4c TEC</b> (color): <b>H-0310-034-MS</b>
<i>Readout Speed</i>	31 fps (CC4 TEC: 31 fps)
<i>Full Well Capacity</i>	10.8 ke <sup>-</sup>
<i>Digitization Depth</i>	12 Bit
<i>Shutter</i>	Global Shutter
<i>Exposure Time</i>	20 µs to 300 s
<i>Gain</i>	1 - 16
<i>Data Interface</i>	USB 3.1 Gen. 1
<i>Power Supply / Power Consumption</i>	USB bus powered Max. 3.5 W (CC4 TEC: max. 10 W)
<i>Mechanical Interface</i>	C-Mount
<i>Dimensions and Weight</i>	CC4: 91.0 x 91.3 x 69.3 mm; 637 g CC4 TEC: 103.0 x 103.0 x 65.4 mm; 935 g

# MetaSystems

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