



Innovators in Bio-Photonics

BROAD SPECTRUM IMAGING



Cancer made **visible**



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Artemis 3DHD
Vis-NIR

Key Features and Benefits

Integrated autofocus	Ensures a crystal clear, 3D image at every working distance from 400 mm to 500 mm
DLP high power projector, multiple wavelengths	DLP projected illumination of the work area, automatic focused pattern with zoom system. Auto angle correction for different working distances
Integrated ring light for diffuse lighting	With 96 glass fibres the Artemis ringlight system connects to 3 external Halogen lightsources
Connected storage and retrieval system	High quality storage and retrieval, stereoscopic raw data archiving for review, evaluation and display at any location at any time
Large field of view	Outstanding overview: 141 mm x 188 mm
Optical zoom	Stepless and precisely adjustable, 4x. Electronic magnification 2x
Unlimited application	Variable pupillary distance, individual vision correction and freedom of movement
High resolution	30 Micrometer at 400 mm working distance

O₂view Artemis Specifications

Working distance	400 mm to 500 mm
Magnification	Stepless 4x optical zoom combined with 2x electronic zoom (total 8x)
Auto angle	8 - 20 degrees
CCD Format	2/3" CCD (Sony ICX285) sensors (2 x 5 units). Depending on your application needs, other sensors can be applied (custom design)
Pixel number per sensor	1360 x 1024
Pixel size	6.45 x 6.45 Micrometer
Prism design	2 x 5 Channel prisms with relevant dichroic splitting
Field of view	Max 141 x 188 mm, Min 22.5 x 36 mm (depending on working distance and optical zoom)
Distortion	< 2%
Vignetting	< 12%
Sensor alignment accuracy	Better than 1/4 of a pixel
Chromatic aberration	Negligible
DLP LED / laser projector	Pattern illumination of the work area at every working distance. For certain applications external light sources can be coupled with the integrated lighting system
Integrated ring light	96 glass fibres (2.5mm diameter each) coupled with 3 external Halogen lightsources. Filters can be customized for each application Autofocus controlled and maintained over zoom variation
Autofocus	System optimized over 430 - 1000 nm range. Standard prism contains RGB (3) channels + (2) NIR channels. Dichroic splitting and filtering can be adjusted to your specific (oncology) application needs (custom design)
Wavelengths	