

**OPTICS AND ILLUMINATION**

FusionOptics	For increased depth of field and high resolution for main surgeon and assistant
OptiChrome optics	For high contrast, high resolution, natural colors without chromatic aberrations
Magnification	6:1 zoom, motorized
Total magnification	4.1× to 24.5× with 10× eyepiece 5.1× to 30.7× with 12.5× eyepiece
Focus range	75 mm
Objective / working distance	WD 175 mm/f = 200 mm WD 200 mm/f = 225 mm WD 225 mm/f = 250 mm WD: Working distance, f: Focal length
Field of view	51.4–8.6 mm Ø with 10× eyepiece
Eyepieces	Wide-field eyepieces for persons wearing glasses 8.3×, 10× and 12.5× dioptic adjustment, ± 5 diopter settings, adjustable eyecup
Direct illumination with 2 LED lamps	Main light <ul style="list-style-type: none"> <li>• Integrated LED illumination system for intensive uniform illumination of the field of view</li> <li>• Continuously adjustable brightness with halogen-like color temperature</li> </ul>
	CoAx 4 coaxial illumination <ul style="list-style-type: none"> <li>• Illumination unit for generating a clear and stable Red Reflex, decreasing stray light through the sclera and increasing the image contrast</li> <li>• Integrated keratoscope and slit illumination</li> </ul> Conversion filters allow surgeon to select preferred color temperature of main illumination
Adjustable CoAx 4	Diameter of coaxial illumination is adjustable between 4 and 23 mm via footswitch
Fine focus	Available for assistant and integrated camera or external 1/3 camera with C-mount interface

**UPGRADEABILITY**

OpenArchitecture	Prepared for integration of video camera systems, digital recording and imaging systems such as IOLcompass, EnFocus OCT, and monitors
Connectors	<ul style="list-style-type: none"> <li>• Numerous built-in connectors for video and control data transfer</li> <li>• Internal power supply 12 VDC, 19 VDC, 24 VDC and AC terminals</li> </ul>
2D/3D HD Video	Optional fully integrated 2D HD and/or 3D HD video and recording

**MANEUVERABILITY**

Optics	<ul style="list-style-type: none"> <li>• 360° rotation</li> <li>• 15° /+ 105° motorized inclination tilt</li> </ul>
XY speed	Zoom linked XY speed
XY range	62 × 62 mm
Balancing	Adjustable gas spring via balancing knob
Brakes	Floor stand with 4 electromagnetic brakes
Monitor arm	860 mm flexible arm with 4 axis for rotation and inclination, max. weight 15 kg and up to 32"

**CONTROL**

Control unit	<ul style="list-style-type: none"> <li>• User-friendly, individually programmable touch-screen (up to 30 surgeons) for control of motor functions and light intensity</li> <li>• Menu selection based on unique software for user-specific configuration</li> <li>• Built-in electronic auto-diagnosis and user support</li> <li>• Software independent hard keys and indicator for illumination</li> <li>• Data shown by means of LCD</li> </ul>
Control elements	<ul style="list-style-type: none"> <li>• Rotary handles</li> <li>• 14-function and 12-function wireless footswitch with optional back-up cable</li> </ul>
IR sensor	Remote control of the HDR recorder
Indicators	<ul style="list-style-type: none"> <li>• LED for video record status</li> <li>• Surgeon information panel for setting status</li> </ul>

**CONSTRUCTION**

Floor stand	Four 360° rotating castors (Ø150 mm), parking brake
Materials	<ul style="list-style-type: none"> <li>• Coated with antimicrobial paint</li> <li>• Conforming with RoHS</li> </ul>
Load	<ul style="list-style-type: none"> <li>• Floor stand max. 8.0 kg from microscope dovetail ring interface</li> <li>• C42/CT42 max. 8.0 kg from dovetail ring interface</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• Floor stand approx. 350 kg without load</li> <li>• C42 ceiling mount total approx. 260 kg</li> <li>• CT42 telescope mount total approx. 200 kg</li> </ul>

**TECHNICAL DATA**

Power connection	<ul style="list-style-type: none"> <li>• 1100 VA 50/60 Hz</li> <li>• 100–240 V~ 50/60 Hz</li> <li>• 2 × T10 AH 250 V</li> </ul>
Protection class	Class 1