

RoboticScope

Technical Data



Electrical Data

Voltage	110 V
Current consumption	In normal operation < 10 A
HMD port	12 V
USB 3.0 port	Rated Value: 5 V

Robot Controlling

Repeatability – ISO 9283	± 0.03 mm [0.00118"]
Calculated range of robotic arm	1840 mm [72.4"]
Maximal speed of movement	250 mm/s [9.84"/s]

Head-Mounted Display

Display resolution	1600 x 1200 (x 2)
Display ratio	4:3
Dioptre compensation	± 5 dpt
Head-Mounted Display weight (without optional counterweight)	< 500 g [1.1 lbs]

Integrated Full HD Camera

Camera system resolution	2 x Extended Full HD/HDR+
Merged 4K resolution	4928 x 2056 px
Camera dynamics	70.8 dB
Frames per second	60 fps
Dynamics	12 Bit

Optics

Working distance	300 - 600 mm [11.8" – 23.6"]
Absolute magnification	2.7 x - 30.1 x
Magnification range	11.1 x
Zoom levels	8
Smallest OR-field	5.8 mm x 4.3 mm [0.23" x 0.17"]
Largest OR-field	64.5 mm x 48.4 mm [2.54" x 1.90"]
Magnification settings	purely optical

Illumination

Performance	2 x 11 W
Lighting technology	LED
Light spectrum	White light CRI > 95
Limited max. luminous intensity	25 - 100%, automatic regulation

BHS Media Tool

File Output Pictures	PNG
File Output Videos	MP4/H.264 (2D and 3D)
3D Video Format	Side-by-Side
3D Spectator Screen Output Options	Left-Right / Top-Down / Interlaced

Dimensions

Dimensions in transport position (WxHxD)	920 mm x 1880 mm x 1740 mm [36.2" x 74.0" x 68.5"]
Total weight of the device	365 kg [804.7 lb]
Total weight of the device, incl. transport packaging	max. 540 kg [1124.4 lb]

ArcView (optional)

Optical redirection System	+45°
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