IVOS II ANIMAL - HARDWARE SPECIFICATIONS (MK5, Digital)
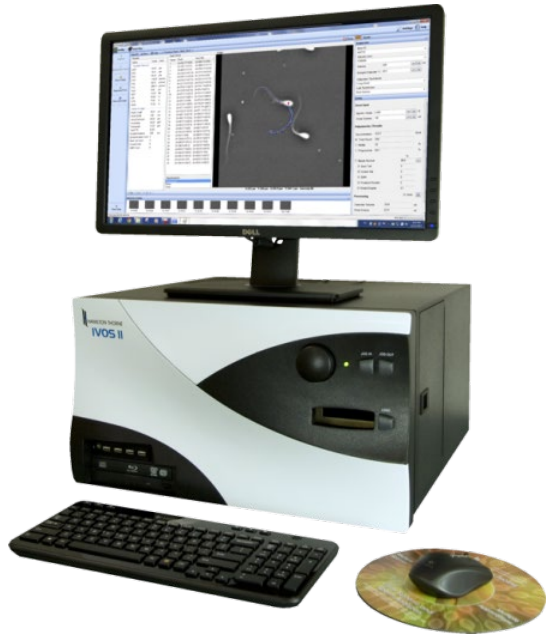
Dimensions

	Height in. (mm)	Width in. (mm)	Depth in. (mm)	Weight lb. (kg)
IVOS II	11.1 (282)	20.3 (515)	19.3 (490	53 (24.1)
Monitor (with stand)	20.2 (513.5)	21.9 (556)	7.1 (180.3)	10.1 (4.6)

Electrical

	IVOS	Monitor
Input Voltage:	110-240 VAC	110-240 VAC
Power:	350 watt (max)	72 watt (max)
Line Frequency:	50/60 Hz	50/60 Hz

Heated Stage

Temperature Control:	Heat from 20°C (Room Temperature + ~3°C) to 45°C
Temperature stepsize:	0.1°C
Temperature stability:	0.5°C
Stage Position:	Programmable
Stage Motor:	Micro Stepper Control with acceleration and deceleration

Compatible Specimen Chambers

Type:	Slide, Cannula, Makler
Depth:	User defined

Internal Optical System

Camera:	High resolution digital CCD array
	Resolution: 782 x 582 pixels
	½ inch CCD sensor
	Progressive scan, Global Shutter
	Exposure, Black Level and Gain controls
	Gigabit Ethernet
Objective:	Standard: 10x
	Optional: 4x, 10x UV, 20x, 40x, 60x, 100x
Image Type:	Dark field, Bright field
	Phase Contrast, negative and positive

LED Illumination System

Type:	Stroboscopic LED light source
Sample Exposure:	Source only on when needed for analysis and setup
Pulse:	1 - 16 millisecond (4 ms typical)
Intensity:	Computer controlled
Histogram:	Scale on screen

IDENT Illumination System (optional)

Type:	Choice of Stroboscopic light source, Xenon or LED
Sample Exposure:	Source only on when needed for analysis and setup
Pulse:	Min = 10 µs
Intensity:	Computer controlled

Digital Image Acquisition

Frame Rate:	60 Hz
Frames:	1 – 100
Fields:	1 – 100
Field Selection:	Automatic or manual

Input

Standard:	Mouse and Keyboard (wired and wireless included)
Optional:	Footswitch
	Electronic scale (ejaculate volume)
	Barcode reader

IVOS II Computer System (specifications subject to change)

Operating System:	Windows 10 Pro (64-bit)
Standard CPU:	3.6 GHz Intel i7 Quad
RAM:	16 GB SDRAM
Ports:	4 Serial
	6 USB 3.0
	4 USB 2.0 (on front)
	1 DVI
	1 HDMI
	1 Line-in (stereo/microphone)
	1 Line-out (headphone/speaker)
Network:	10/100/1000 LAN - Ethernet NIC,
	2 RJ45 ports (one used by camera)
Hard Drive:	2 Terabyte 6.0 GB/sec 7200 RPM hard drive
	Larger Hard Drives & SSD's Optional
Monitor:	24" Flat Panel Widescreen (1920 x 1200, 16:10)
CD/DVD Drive:	CD/DVD ± RW DL, BD-R

Specifications subject to change without notice.