

Quantum Workstation

The Quantum Workstation is the primary user interface for the management of the world's most advanced Perfusion Management System.

Integrated software applications (Apps) supported by a unique line of advanced Quantum sub-systems extends user functionality well beyond today's conventional technologies. With a single screen interface and a total commitment to user "ease of use", combined with Spectrum Medical's legendary commitment to both patient and physician safety the Quantum Workstation is your "flight deck" in the management of the following Perfusion Systems:




- Blood Flow Management, the Delivery of Cardioplegia and Patient Weaning
- Patient Ventilation, Gas Blending and Vacuum Management
- Vitals Management and Diagnostic Alarm Settings
- VIPER Data Management and Quantum System Settings

Technical Specifications

Workstation Console

Console	
Dimensions	375 x 298 x 107mm 14¾ x 11¾ x 4¼ inches
Weight	7.8 Kg 17 lb
Battery	(x2) 14.4V 6600 mAh Li-Ion Up to 4 Hours running time
Display	
Size	15" Portrait Mode with LED Backlight
Resolution	1024 x 768 (XGA)
Software	
OS	Windows Embedded Standard 7
Application Code	Spectrum Medical proprietary VIPER application code
Electronics	
Main Processor	Intel Atom D2550 dual-core 1.86 GHz
Memory	2GB RAM, 20GB Solid State Drive, 20GB+ SD Card
Communications	
Serial / USB	4 - selectable RS232 / RS485 USB 4 - USB 2.0
Wired LAN	2 - 10/100 Mbps
Wi-Fi	1 - 802.11 a/b/g/n compatible, dual band 2.4/5 GHz, dual antenna
Operating Conditions	
Temperature	10-40°C
Humidity	30-75 %
Atmospheric pressure	80-106 kPa
Altitude	2000m max.

Transport and Storage Conditions	
Temperature	0-60°C
Humidity	0-90 %
Atmospheric pressure	76-106 kPa
Electrical Installation	
Supply Voltage	80-264 VAC
Frequency	47-63 Hz
Rated Power	250 W
Input Current at Rated Power	2.3A
Monitor Power Requirements	
Input Voltage	24V DC
Input Current	10A max.
Safety ratings	
Earth Leakage (current)	<5mA
Patient Leakage (current)	<100µA
Electric shock protection	Class I with functional earth
Defibrillation proof type BF applied part	
Mode of Operation	Continuous
Degree of ingress protection	IPX0 (Not Protected)
Degree of safety of application in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide	Not Protected

Note: Performance of the unit is not affected by supply voltage variations as long as they are within the specifications shown under 'Electrical Installation' above.

Sensor Specifications

HCT - SO2 Part Number	Tube Internal Diameter	Tube Wall Thickness	Venous Tubing Clip Size (Tube OD)	Flow Probe Part Number
3003 - 010 - 023	3/16	1/16	5/16	H5XLA
3003 - 010 - 024	3/16	3/32	3/8	-
3003 - 010 - 022	1/4	1/16	3/8	H6XLE
3003 - 010 - 021	1/4	3/32	7/16	H7XLH
3003 - 010 - 020	3/8	3/32	9/16	H9XLM
Venous Line Only	1/2	3/32	11/16	H11XLD