

Technical Specifications

General Device Information

Applied Part Classification	Type BF (body floating)
Applied Parts.....	Handpiece and Lens piece
Ingress Protection Rating (IP code)	ME Equipment: IPX0
	Monitor: IPX1
	Footswitch: IPX8

Device Characteristics

Device Dimensions (WxDxH-minimum)	660 x 610 x 1372 mm (26 x 24 x 54 in)
Device Weight With FA (61-000300):	Approximately 85 kg (188 lb) fully loaded
Without FA (61000400):	Approximately 82.6 kg (182 lb) fully loaded
Display Properties	21.5" IPS touchscreen HD 1920 x 1080 monitor
CPU and Storage.....	Intel® Core i7
	16 GB Random Access Memory
	1 TB Solid State Storage Drive

Operating System

Microsoft Windows® 10 Operating System (OS)

Software.....	v7.0
Instrument Control Firmware	v1.0

Electrical/Power Supply

Ratings.....	100-240 V~, 50/60 Hz, 400 VA
Fuses.....	Fuses: 3AG 6.3A 250V slo-blo 5 x 20 mm
Power Consumption.....	400 W maximum with all options
Power Cord	Meeting the following specifications:
	Detachable hospital-grade
	305 cm (10 ft) maximum length
	Rated at 10A (minimum)
	UL/CSA listed
	REACH, RoHS compliant
Battery LI-ION (2).....	14.4V
Battery Charging Module.....	240W
Full Battery Charge Operation (battery run time when AC supply is interrupted).....	10 mins
Battery Recharge Time	
.....If completely discharged, charge a minimum of 5 hours	

Environmental Conditions for Use

Operating Environmental Limits

Temperature.....	10° – 35° C (50° – 95° F)
Relative Humidity.....	30% – 90% noncondensing
Atmospheric Pressure	70 – 106 kPa (20.7 – 31.3" Hg)
Altitude.....	-382 – 3012 m (-1255 – 9822 ft)

Storage (unboxed)

Temperature.....	-10° to 55° C (14° to 131° F)
Relative Humidity.....	30% – 90% noncondensing
Atmospheric Pressure	70 – 106 kPa (20.7 – 31.3" Hg)
Altitude.....	-382 – 3012 m (-1255 – 9822 ft)

Transport (in original shipping material)

Temperature.....	-29° – 50° C (-20° – 122° F)
Relative Humidity.....	10% – 85% noncondensing
Atmospheric Pressure	50 – 106 kPa (14.7 – 31.3" Hg)
Altitude.....	-382 – 5574 m (-1255 – 18,288 ft)



Color image shown in product image above

*NOTE: Specifications are subject to change without notice.

Applicable Standards

Australia

EN ISO 15223-1:2016

Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements

EN 60601-1:2006

Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

EN 60601-1-6:2010

Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability (IEC 60601-1-6:2010)

IEC 60601-1-2:2014 – EMC Fourth Edition

Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests

IEC 62304:2006+AMD1:2015

Medical device software - Software life cycle processes

ISO 10940-2009

Ophthalmic Instruments - Fundus Cameras

Canada

CAN/CSA-C22.2 NO. 60601-1:14 (R2018)

Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance (Adopted IEC 60601-1:2005, third edition, 2005-12, including amendment 1:2012, with Canadian deviations)

CAN/CSA-C22.2 NO. 60601-1-6:11 + A1 (R2016)

Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability (Adopted IEC 60601-1-6:2010, third edition, 2010-01)

IEC 60529

Degrees of protection provided by enclosures (IP Code)

IEC 62304:2006+AMD1:2015

Medical device software - Software life cycle processes

IEC 62366:2014 - Ed. 1.1

Medical devices – Application of usability engineering to medical devices

EU

EN ISO 15223-1:2016

Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements

EN 60601-1:2006

Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

EN 60601-1-6:2010

Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability (IEC 60601-1-6:2010)

EN 60601-1-2:2015

Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests

IEC 60529

Degrees of protection provided by enclosures (IP Code)

IEC 62133:2012

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications

*NOTE: Specifications are subject to change without notice.

Making sense of the body's signals

©2022 Natus Medical Incorporated. All Rights Reserved. All product names appearing on this document are trademarks or registered trademarks owned, licensed to, promoted or distributed by Natus Medical Incorporated, its subsidiaries or affiliates. **033371 RevD**

EN 62304:2006

Medical device software - Software life-cycle processes

Japan

IEC 60601-1: 2005+A1:2012+Cor1:2014

Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

USA

ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012

C1:2009/(R)2012 and A2:2010/(R)2012 (Consolidated Text) Medical electrical equipment - Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005 MOD)

EN ISO 15223-1:2016

Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements

IEC 60601-1-6:2010+A1:2013

Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability

IEC 60601-1-2:2014 – EMC Fourth Edition

Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests

IEC 62133:2012

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications

IEC 62304:2006+AMD1:2015

Medical device software - Software life cycle processes

ISO 10940-2009

Ophthalmic Instruments - Fundus Cameras

UL2054:2011

Standard for Household and Commercial Batteries

UL1642:2009

UL Standard for Safety for Lithium Batteries

Worldwide

ANSI Z80.36-2016

For Ophthalmics - Light Hazard Protection for Ophthalmic Instruments

EN ISO 13485:2016

Medical devices - Quality management systems - Requirements for regulatory purposes

ISO 15004-2:2007

Ophthalmic instruments — Fundamental requirements and test methods — Part 2: Light hazard protection

ISO 10993-1

Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process

ISO 14971:2019

Medical Devices – Application of Risk Management to Medical Devices

ISO 15223-1:2016, Corrected version 2017-03

Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements

ISTA 2A Shipping Tests

International Safe Transit Association

ISTA 2B Shipping Tests

International Safe Transit Association

natus

Natus Medical Incorporated

natus.com