



OMNIBotics Station with iBlock[®]

INSTRUCTIONS FOR USE OF SHIPPING CRATE AND FIRST SETUP

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Standards

This product complies with the standards for medical electrical devices

EN 60601-1 (2007): Medical electrical equipment (General requirements for basic safety and essential performance)

EN 60601-1-2 (2007): Medical electrical equipment (General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests)

This product has been certified by TÜV Rheinland of North America following UL 60601-1:2003 R4.06, CAN/CSA-C22.2 NO. 601.1-M90, CAN/CSA-C22.2 NO. 60601-1-1-02 (R06), and IEC 60601-1-1:2000.

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Patents

The OMNIBotics System, OMNI ART™ Knee Application, Instruments, and iBlock® are protected by Patents No's: US 9,220,571, US 9,220,510, US 9,050,132, US 9,033,958, US 8,990,052, US 8,880,152, US 8,626,267, US 8,214,016, US 8,126,533, US 8,096,997; US 7,691,108, EP 1 635 715 (FR, GB), DE 602004048029.0 , EP 1 341 468 (FR, GB), DE 60141248.6, JP 4 182 757, FR 2 856 268, FR 2 852 223.

Other patents pending.

Other patents pending.

Licenses

The OMNIBotics Station™ design is the exclusive property of OMNI. Any copying either in part or in whole is strictly prohibited.

Modifications

The information given in this document is subject to modification without notice. We have done our utmost to ensure the accuracy of the information given in this document.

Training options

For safe and effective use of the medical device, the following training courses are recommended:

<i>Name</i>	<i>Reference</i>	<i>Duration</i>	<i>Frequency</i>
OMNIBotics Knee System – ART™ Knee Application Instructions for Use	IFU-036	2 hours	Surgeon and OMNI personnel to be trained annually. Hospital staff on installation and as needed.
OMNIBotics Station Instructions for Use	IFU 037	2 hours	Surgeon and OMNI personnel to be trained annually. Hospital staff on installation and as needed.

Table 1 - Description and reference codes for training courses

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1 Introduction

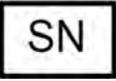
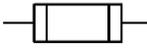
1.1 Purpose of document

This document provides a set of instructions for the use of the shipping crate and of the first setup of the OMNIBotics Station. This document explains how to pack and unpack the OMNIBotics Station as well as how to perform functional testing.

It is intended for sales and technical representatives who will be crating, uncrating, and testing the OMNIBotics Station. These personnel should also be trained on the OMNIBotics Station instructions for use and complete any additional training requirements set by OMNI for assisting a surgical procedure or providing supervision of the system.

1.2 Conventions

	Manufacturer
	Catalogue Reference
	Date of Manufacture

	Serial Number
	Fuse
	Alternating Current
	Potential Equalization
	Temperature limitation for the device

	<p>The equipment must not be disposed of with other rubbish but must be disposed of in a selective collection to be evaluated, reused or recycled.</p>
	<p>Type BF applied part</p>
<p>IP 20</p>	<p>Protection Coefficient</p>
	<p>Pushing prohibited</p>
	<p>Follow instructions for use</p>

	<p>Item is Fragile and should be handled with care</p>
	<p>Humidity limitation for the device</p>
	<p>Atmospheric pressure limitation for the device</p>
	<p>WARNING: This symbol precedes any hazard involving the health and/or safety of users and patients.</p>
	<p>RECOMMENDATION: This symbol precedes any advice on the use of the system, which has no incidence on the health and/or safety of users and patients.</p>

1.3 Associated documents

- OMNIBotics Tracker Kit Instructions for Use (IFU-035)
- OMNIBotics Knee System – ART™ Knee Application Instructions for Use (IFU-036)
- OMNI ART and Iblock System Instrumentation (IFU-039)
- OMNIBotics Station Instructions for Use (IFU-038)

1.4 Safety precautions

 Warning!	WARNING: Personnel using the OMNIBotics Station should be trained by an OMNI Technical Services Representative or by an appropriate person approved by OMNI.
 Warning!	WARNING: The camera is a high-precision optical instrument. Mechanical shock may adversely affect accuracy even if no superficial damage is visible. If damage is suspected, do not use the OMNIBotics Station until accuracy and precision can be verified.
 Warning!	WARNING: Never immerse the OMNIBotics Station in water or other liquid. Liquid spills may damage the system and create electric shock or fire hazards. In this event, immediately turn off the station and call OMNI Customer Service.

 <p>Warning!</p>	<p>WARNING: Always use handles when positioning or moving the device to prevent applying unnecessary force to other components or risk of tipping.</p>
 <p>Warning!</p>	<p>WARNING: Never look directly into the laser-emitting aperture of the localizer. The class 2 laser module on the localizer emits radiation that is visible and may be harmful to the human eye. Direct viewing of the laser diode emission at close range may cause eye damage.</p>
 <p>Warning!</p>	<p>WARNING: The OMNIBotics Station should only be connected to a power distribution network with a Type 2 surge protection device.</p>
 <p>Warning!</p>	<p>WARNING: Never use a multi-outlet power strip to connect the OMNIBotics Station.</p>
 <p>Warning!</p>	<p>WARNING: Do not use the OMNIBotics Station in the presence of flammable anesthetics or other flammable substances.</p>

 Warning!	WARNING: All electrical and mechanical maintenance must be performed by a representative approved by OMNI.
 Warning!	WARNING: This system contains a lithium battery. The battery should only be exchanged by authorized service personnel. A risk of explosion from incorrect installation or misapplication may possibly occur.
 Warning!	WARNING: Disconnect the OMNIBotics Station from the power supply before replacing a fuse.
 Warning!	WARNING: Do not connect any other units to the OMNIBotics Station other than specified components of the system.
 Warning!	WARNING: If the OMNIBotics Station is linked to another electromedical device via the equipotential connection, the global system must be compliant with IEC 60601-1.
 Warning!	WARNING: To avoid electric shock, the OMNIBotics Station must be connected only to a supply network with a protective ground.

 <p>Warning!</p>	<p>WARNING: If the iBlock moves uncontrollably, press the Emergency Stop button located on the Enclosure, or disconnect the iBlock cable from the iBlock enclosure.</p>
 <p>Warning!</p>	<p>WARNING: Any modification to the iBlock® system is prohibited.</p>
 <p>Warning!</p>	<p>WARNING: The iBlock® can only be connected to the OMNIBotics Station and can only be used in conjunction with the indicated instruments. Any use not supported by OMNI can damage the iBlock®.</p>
 <p>Warning!</p>	<p>WARNING: Do not connect any units to the enclosure box other than specified components of the iBlock® system.</p>
 <p>Warning!</p>	<p>WARNING: The use of cables other than those specified or manufactured by OMNI may result in change of safety conditions. Therefore, it is strictly forbidden to use non-authorized cables.</p>

 Warning!	<p>WARNING: The green sleeve connector of the iBlock cable must be connected to the Enclosure Box. The gray sleeve connector of the iBlock cable must be connected to the iBlock cover.</p>
 Warning!	<p>WARNING: Transport should only be undertaken under conditions described in section 2 with OMNI-approved shipping containers.</p>

Caution: Federal (USA) Law restricts this device to sale by or on the order of a physician.

1.5 Special conditions for use

	<p>RECOMMENDATION: Read and understand the entire user manual and associated documents before using the OMNIBotics Station.</p>
	<p>RECOMMENDATION: Access to the computer and electrical systems contained in the OMNIBotics Station is strictly reserved for personnel approved by OMNI.</p>

	<p>RECOMMENDATION: The user must check the external appearance of the station after each time it is transported; if a mechanical anomaly is detected, do not use the station. Call Customer Service set on page 1. Check that the system is functioning correctly after each time it is transported. To do this, follow the paragraph 4 Functional check.</p>
	<p>RECOMMENDATION: Always engage the brakes of the OMNIBotics Station when in use.</p>
	<p>RECOMMENDATION: Do not tilt the OMNIBotics Station more than 10° with reference to the horizontal. Always put the station in the transport position before transporting the station.</p>
	<p>RECOMMENDATION: Never disconnect or connect the localizer while the station is in use.</p>
	<p>RECOMMENDATION: Follow the electrical connection details for the OMNIBotics Station shown on the identification label.</p>



RECOMMENDATION: The OMNIBotics Station must only be powered on by first the power switch on the enclosure box and then the power button on the laptop.



RECOMMENDATION: The OMNIBotics Station must only be powered off by first shutting down the software and then the main power switch on the enclosure.



RECOMMENDATION: Wait at least 10 seconds after turning off the station before restarting.



RECOMMENDATION: When transporting, carrying, or shipping the computer, make sure the computer is turned off. Remove all external devices, cables, PC cards and other protruding objects. Remove USB Drive. Do not drop or hit the computer against solid objects. Do not leave the display open. Do not grip the display part.

2 Transport and Storage conditions

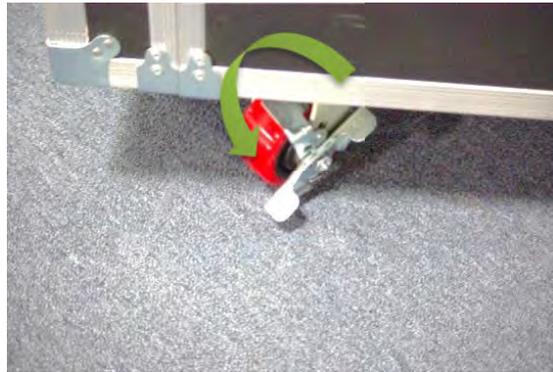
Temperature	-10°C to 50°C (14°F to 122°F)
Humidity	30% to 90%
Pressure	70kPa to 106kPa

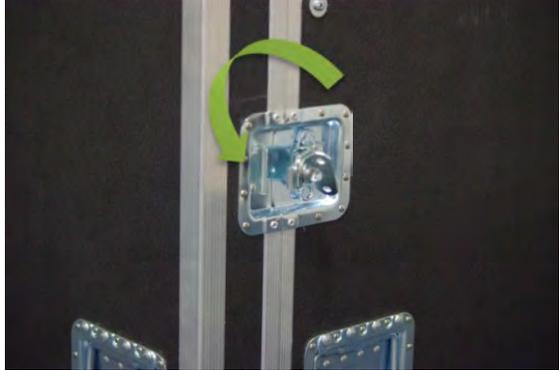
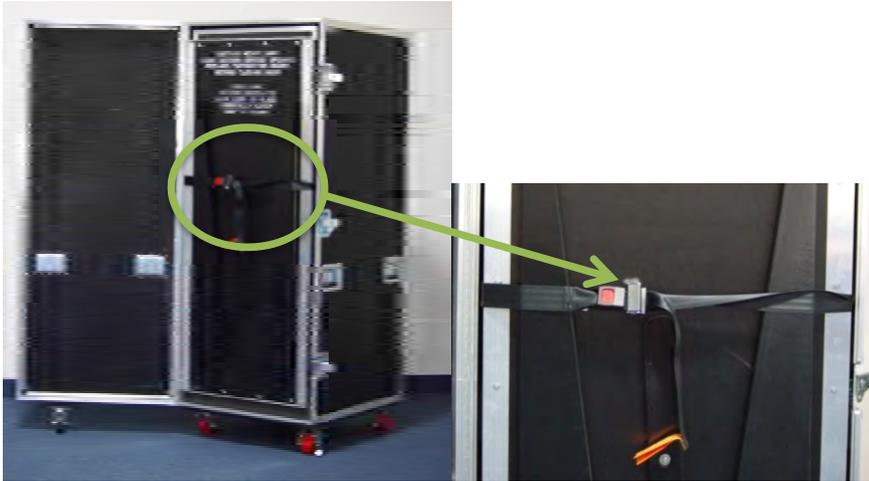
3 System uncrating and crating

3.1 Required tools

LIST OF THE MEANS (TOOLS, RESOURCES, INFORMATION)		
Designation	Supplier	Supplier / mean reference and Version
1/8" Allen Key	NA	NA
Bubble wrap	NA	NA
Packing tape	NA	NA

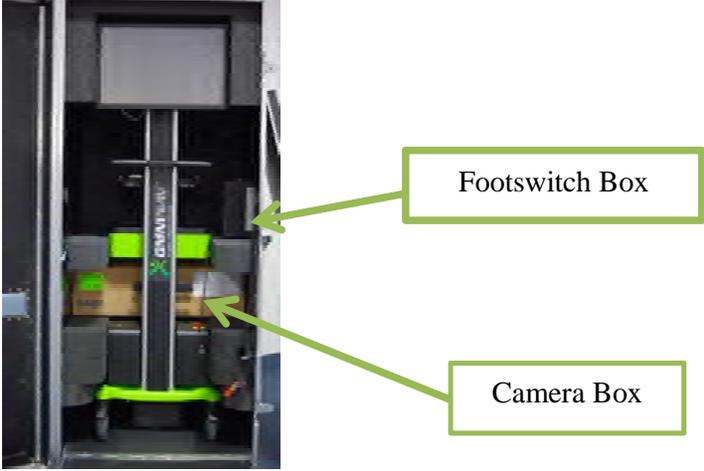
3.2 System uncrating

Step	Description of the operation	Verification
1.	Lock the 2X front wheel brakes of crate.	

2.	Unlock transport case by removing cable ties (if applicable), flipping latches out, and turning counterclockwise.	
3.	Open the crate door and unbuckle belt. Use caution as contents may fall forward.	

<p>4.</p>	<p>Open the two triangular side supports of the ramp and secure by rotating central support piece. Central support should be approximately horizontal when secured.</p>	
<p>5.</p>	<p>Lower ramp.</p>	

6.	Remove separation board and set aside.	
7.	Remove laptop box that is located on the ground under the station.	

<p>8.</p>	<p>Remove footswitch from side pocket and place it on top of the drawer. Roll system out of transport crate. Use caution when moving the device down the ramp. It is topheavy and may tip. Remove camera box.</p>	
<p>9.</p>	<p>Remove enclosure foam block (underneath enclosure) and return material to crate for future use.</p>	

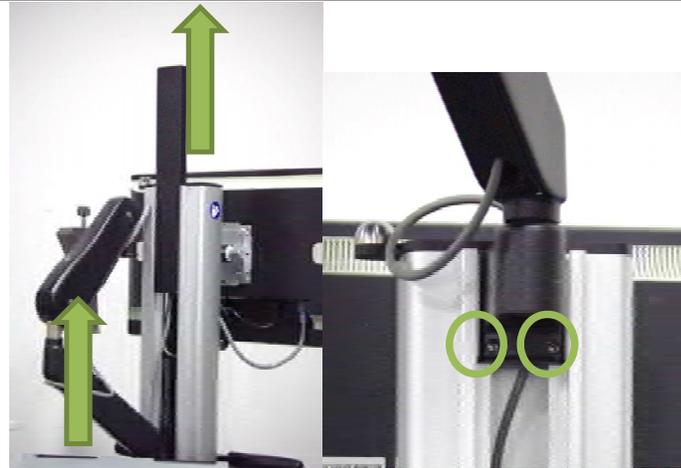
<p>10.</p>	<p>Remove bubble wrap from footswitch/station and leave material inside crate for future use.</p>	
<p>11.</p>	<p>Remove bubble wrap from camera arm bracket and leave it inside the crate for future use.</p>	

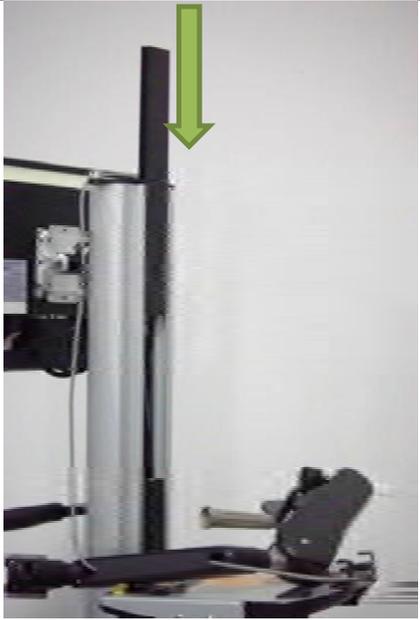
12.

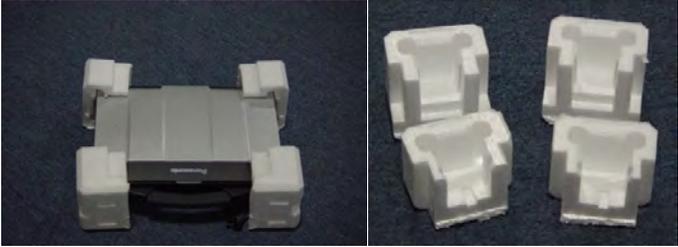
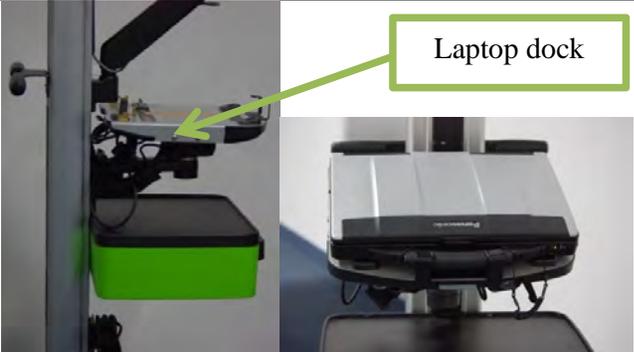
Remove small channel cover 4 by sliding it up and out of the top of the mast.

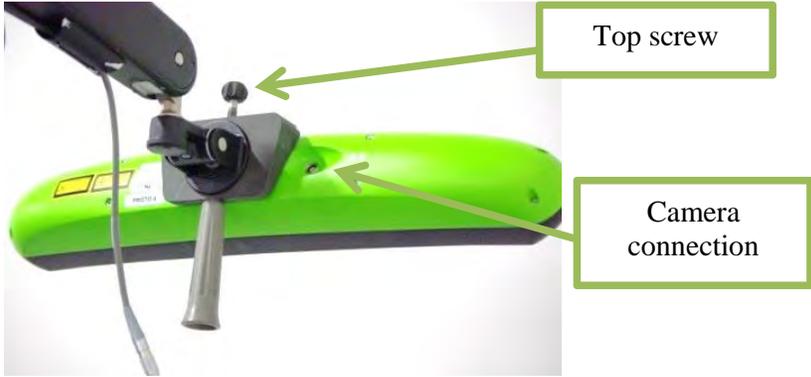
Then loosen 2X screws, using 1/8" allen key, in camera arm and slide arm upward completely out of the mast temporarily.

Do not pinch or stretch camera cable when moving arm.



<p>13.</p>	<p>Remove channel cover 3 from drawer. Install channel cover 3 into mast so circular cut-out is facing down. Slide downwards until it bottoms out. Install channel cover 4, with label facing up, and slide downwards until it meets channel cover 3. Camera cable should sit behind channel covers.</p>	
<p>14.</p>	<p>Re-install camera arm so it is mounted flush with the top of the mast. Tighten 2X screws to secure arm.</p>	

<p>15.</p>	<p><u>If laptop is part of crate contents:</u> Remove laptop from packaging and leave packaging in crate for future use.</p> <p><u>If laptop is not part of crate contents:</u> Empty laptop box can be returned to crate for future use.</p>	
<p>16.</p>	<p><u>If laptop is part of crate contents:</u> Attach Laptop to dock. See OMNIBotics Station with iBlock IFU in Station drawer for laptop attachment instructions.</p>	

<p>17.</p>	<p><u>If camera is part of crate contents:</u> Remove Camera from packaging and return package to crate.</p> <p><u>If camera is not part of crate contents:</u> Empty camera box can be returned to crate for future use.</p>	
<p>18.</p>	<p><u>If camera is part of crate contents:</u> Insert into camera arm bracket and secure with top screw.</p>	

<p>19.</p>	<p><u>If camera is part of crate contents:</u> Attach cable.</p> <p>See OMNIBotics Station with iBlock IFU for camera attachment and connection instructions.</p> <p>Plug the camera cable into the back of the camera by aligning the two red dots.</p>	
<p>20.</p>	<p>Perform functional testing outlined below (section 4) before any surgical use of the station.</p>	

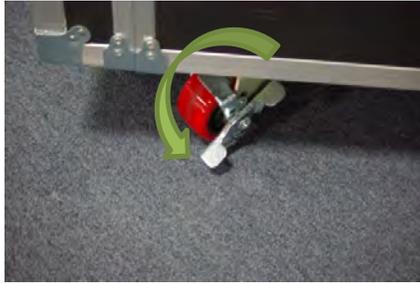
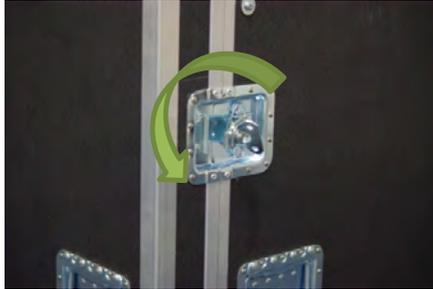
<p>21.</p>	<p>Replace separation board (foam side facing inward towards device)</p>	
<p>22.</p>	<p>Lift ramp and rotate central support piece to allow folding of two triangular ramp sides. When ramp is upright secure with buckle. NOTE: Face of ramp should fit flat against opening of crate. If ramp is not closing fully check placement of device and separation board. Do not force.</p>	

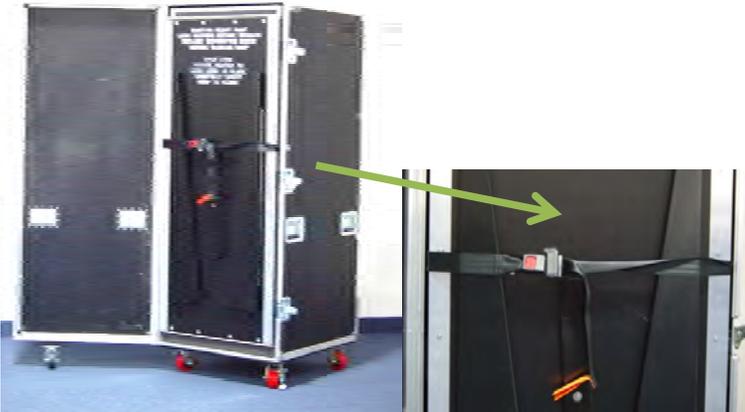
23.

Close lid of transport crate and close 3X latches.



3.3 System package for shipping

Step	Description of the operation	Picture
1.	Lock the 2X red front wheel brakes of crate.	
2.	Unlock transport case by removing cable ties (if applicable), flipping latches out, and turning counterclockwise.	

<p>3.</p>	<p>Open the crate door and unbuckle belt. Use caution as contents may fall forward.</p>	
<p>4.</p>	<p>Open 2X triangular side supports of ramp and secure by rotating central support piece. Central support should be approximately horizontal when secured.</p>	

5.	Lower ramp.	
6.	Remove separation board and set aside.	

7.	Remove camera and laptop boxes. Remove enclosure foam block.	
8.	Before preparing the station for shipment, ensure it is properly shut down, cleaned, and disinfected per OMNIBotics Station with iBlock IFU.	

<p>9.</p>	<p><u>If camera is part of crate contents:</u> Unplug power cable by pulling back on the connector sleeve. Remove camera from the camera arm by untightening the top screw and sliding out.</p>	
<p>10.</p>	<p><u>If camera is part of crate contents:</u> Place the camera in its cardboard packaging (with included packaging materials) in orientation shown. Secure package with tape.</p>	

11.

Insert camera package between foam supports as shown and push to the back of the crate.



12.	<p><u>If laptop is part of crate contents:</u> Remove laptop from unit and place in original cardboard packaging (with included packing materials). Secure package with tape.</p>	
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13.

Remove top two small channel covers and place to the side. Use care so as not to scratch or otherwise damage channel covers.



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