Medacta International

iMANS™
MEDACTA NAVIGATION SYSTEM

TROLLEY UNIT

Ref. 75.41.030US

USER MANUAL

Ref: 99.34.11US rev.01 – Last update May 2010

CAUTION: Federal law (USA) restricts this device to sale by or on the order of physician

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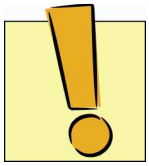


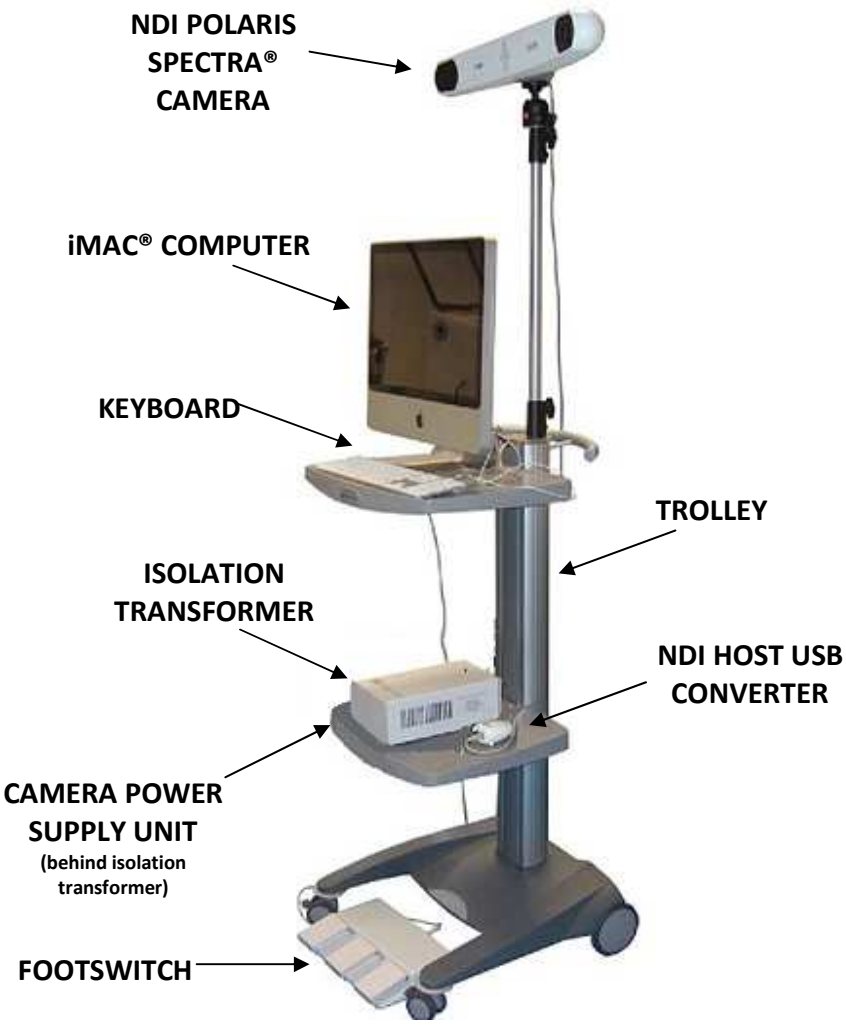
BEFORE USING THE MEDACTA iMNS™ NAVIGATION SYSTEM, CAREFULLY READ THROUGH THE MANUAL PROVIDED WITH THE SYSTEM AND THE OPERATING TECHNIQUES RELATED TO THE SURGERY TO BE PERFORMED. THE USER IS RESPONSIBLE FOR ANY DAMAGE OR MALFUNCTION CAUSED BY IMPROPER USE OF THE iMNS™ SYSTEM OR OF ANY OF ITS COMPONENTS.

The information contained in this manual and the product to which it refers may be modified by MEDACTA without giving prior notice thereof.

The trademarks and product names quoted in this manual belong to the respective owners.

This manual is only for the trolley unit.

1.COMPONENTS



2.COMPONENTS POSITIONING

Before positioning any components on the trolley, make sure that the self locking mushroom head fasteners are located on both the upper and lower shelves, like illustrated in figure 1 and figure 2.

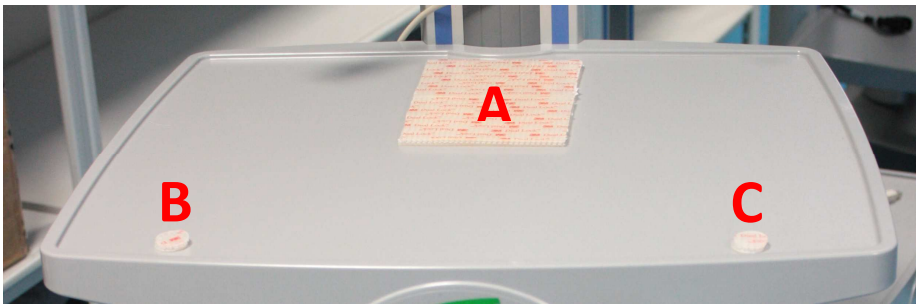


Figure 1 **-** *Placement of the self locking mushroom head fasteners on the trolley upper shelf*

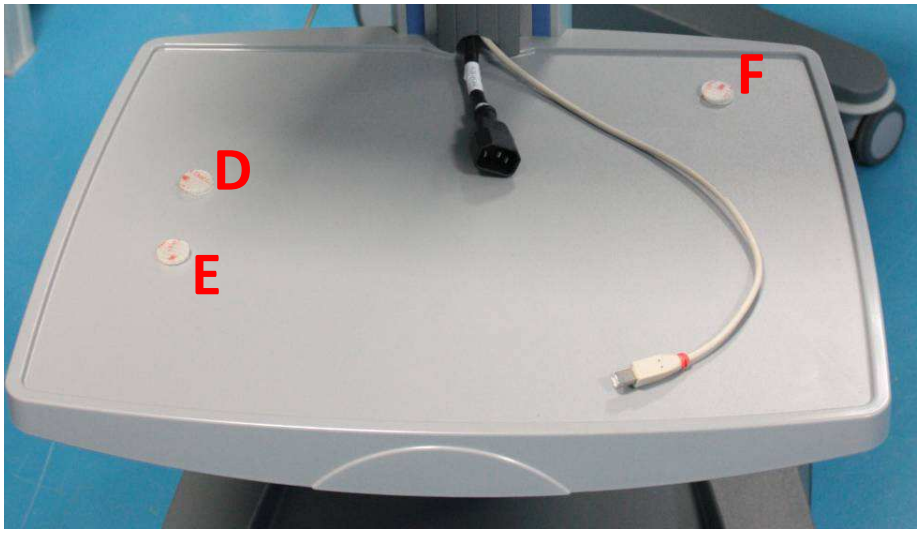


Figure 2 **-** *Placement of the self locking mushroom head fasteners on the trolley lower shelf*

The strips and dots illustrated above are used to fix, respectively:
A = iMAC computer
B and C = keyboard
D and E = camera power supply
F = USB converter.

The corresponding fasteners are placed on each component like illustrated in figures 3, 4, 5 and 6.

Figure 3 **-** *Placement of the fasteners on the iMAC*

Figure 4 **-** *Placement of the fasteners on the camera power supply*

Figure 5 **-** *Placement of the fasteners on the USB converter*

Figure 6 **-** *Placement of the fasteners on the keyboard*

3.iMac® COMPUTER SETUP

Place the iMac® computer on the upper shelf.
Insert cable B of figure 7 in the iMAC® power socket and cable A of figure 7 in one of the 3 USB ports ( ) located on the back of the computer (figure 8).

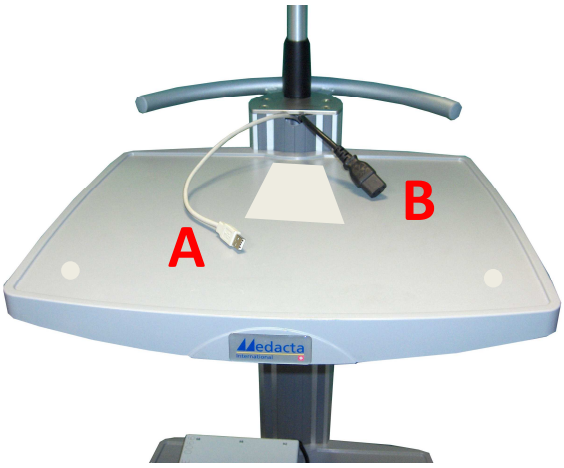


Figure 7 *- Trolley upper shelf*

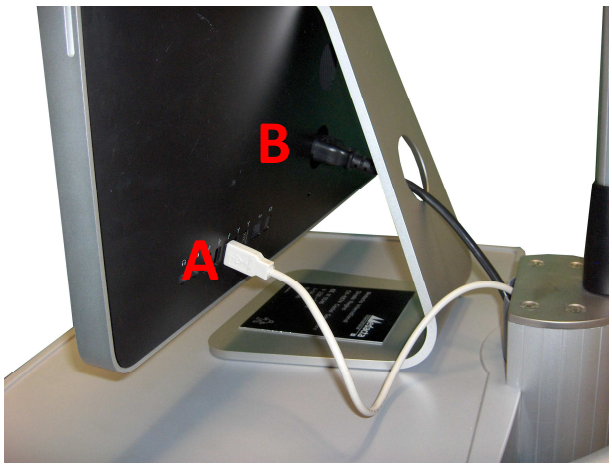


Figure 8 - *iMAC® connection*

4.CAMERA PLACEMENT

Screw the ball joint on the camera ball joint mount through the threaded hole on the lower side of the camera itself, as shown in figure 9.
Unscrew the locking knob 2 of the camera stem 3 (figure 10), insert the ball joint Q assembled with the camera into the stem and securely tighten the locking knob 2 to prevent the joint from slipping from the stem.

Figure 9 – *Assembling the ball joint and the camera*

Figura 10 – *Securing the camera*

Orient the camera as desired and tighten the knob 1.
In order to extend the telescopic rod of the camera stem, loosen the locking device 4 (figure 11), make sure that the locking device 2 is firmly tightened and pull up the Q joint. Finally, tighten the locking device 4 to fix the position of the stem.

Figure 11 – *Telescopic rod of the camera stem*

5.CONNECTION OF THE HOST USB CONVERTER

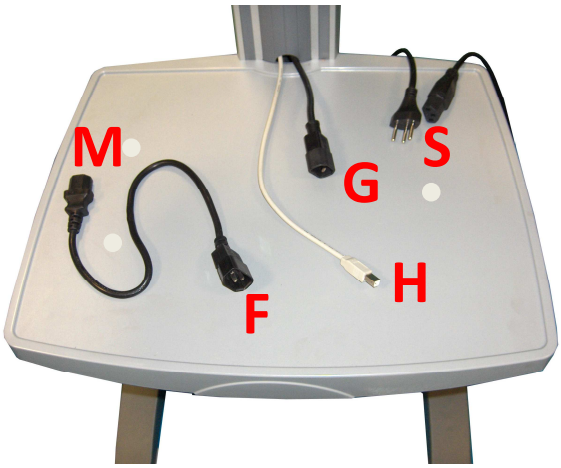


Figure 12 –*Trolley lower shelf*

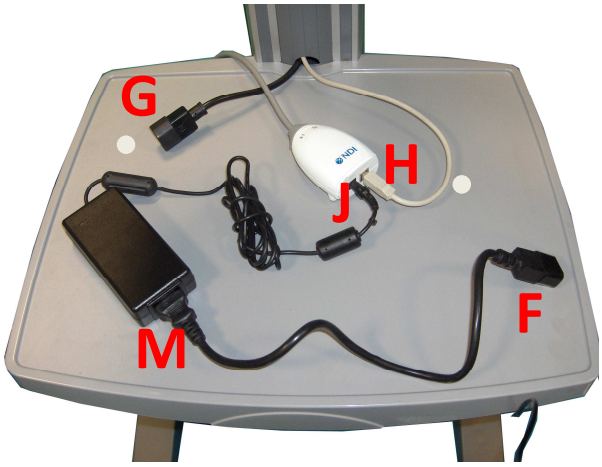


Figure 13 – *Host USB converter connection*

Place the Host USB Converter and the power supply unit on the lower shelf. Connect the USB cable H to the socket (⇻) of the Host USB Converter. Insert the J cable of the power supply unit into the special socket (⎓) of the Host USB Converter. Finally, insert the M connector in the corresponding socket of the camera power supply unit.
Place the components onto their corresponding self locking pods.

6.CAMERA CONNECTION

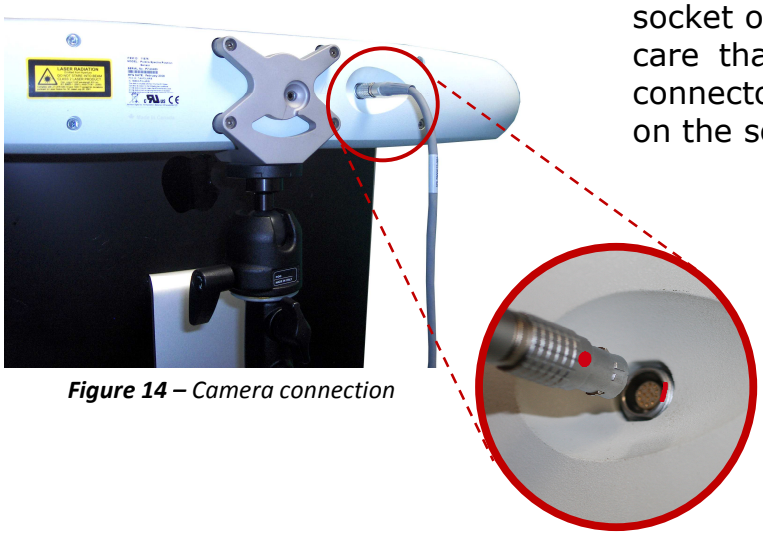


Figure 14 – *Camera connection*

Insert the 14-pin connector of the Host USB Converter in the corresponding socket on the rear of the camera, taking care that the red mark on the 14-pin connector corresponds to the red mark on the socket (figure 14).

7. POWER SUPPLY SETUP

Figure 15 – *Power supply unit connection*

Rest the REOMED® 600 isolation transformer on the lower shelf of the trolley.

Check that the input voltage agrees with the local mains voltage reading the number you can see through the slot D (figure 16) of the fuse-holder on the transformer's rear (230 for 220V mains voltage – 115 for 110V mains voltage). If the voltages disagree, refer to the qualified technical staff.
Moreover, verify that the switch A (figure 16) is set to OFF (**O**)

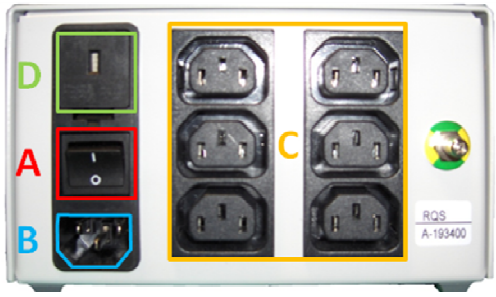


Figure 16 – *Isolation transformer REOMED® 600*

Figure 17 – *REOMED® 600 connection*

Insert the G connector of the iMAC® power cable and the F connector of the camera power supply unit cable into the C sockets of the REOMED® 600 unit (all the C sockets are suitable), as shown in figure 17.

Insert the power cable S into the B input socket of the REOMED® 600 transformer. The other end must be plugged into a suitable mains power outlet.

8. TURNING ON THE SYSTEM

Connect the footswitch and the keyboard to the USB sockets on the rear of the iMac® computer (Figure 18).

***Figure 18** –iMAC® USB sockets*

Turn on the REOMED® 600 insulation transformer by setting the switch (A in figure 16) to ON (**I**).

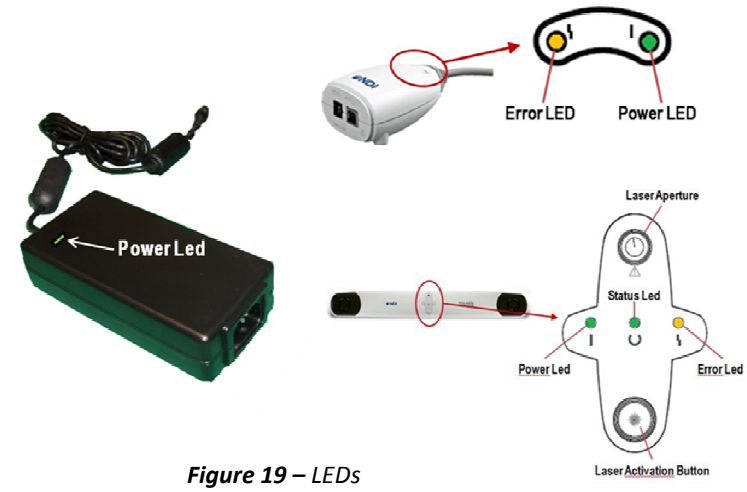


***Figure 19** – LEDs*

Check that the Power LED on the power supply unit and the green Power LED (**I**) on the Host USB Converter become on and the Power LED (**I**) on the front of the camera starts flashing (figure 19).

***Figure 20** – iMac® power button*

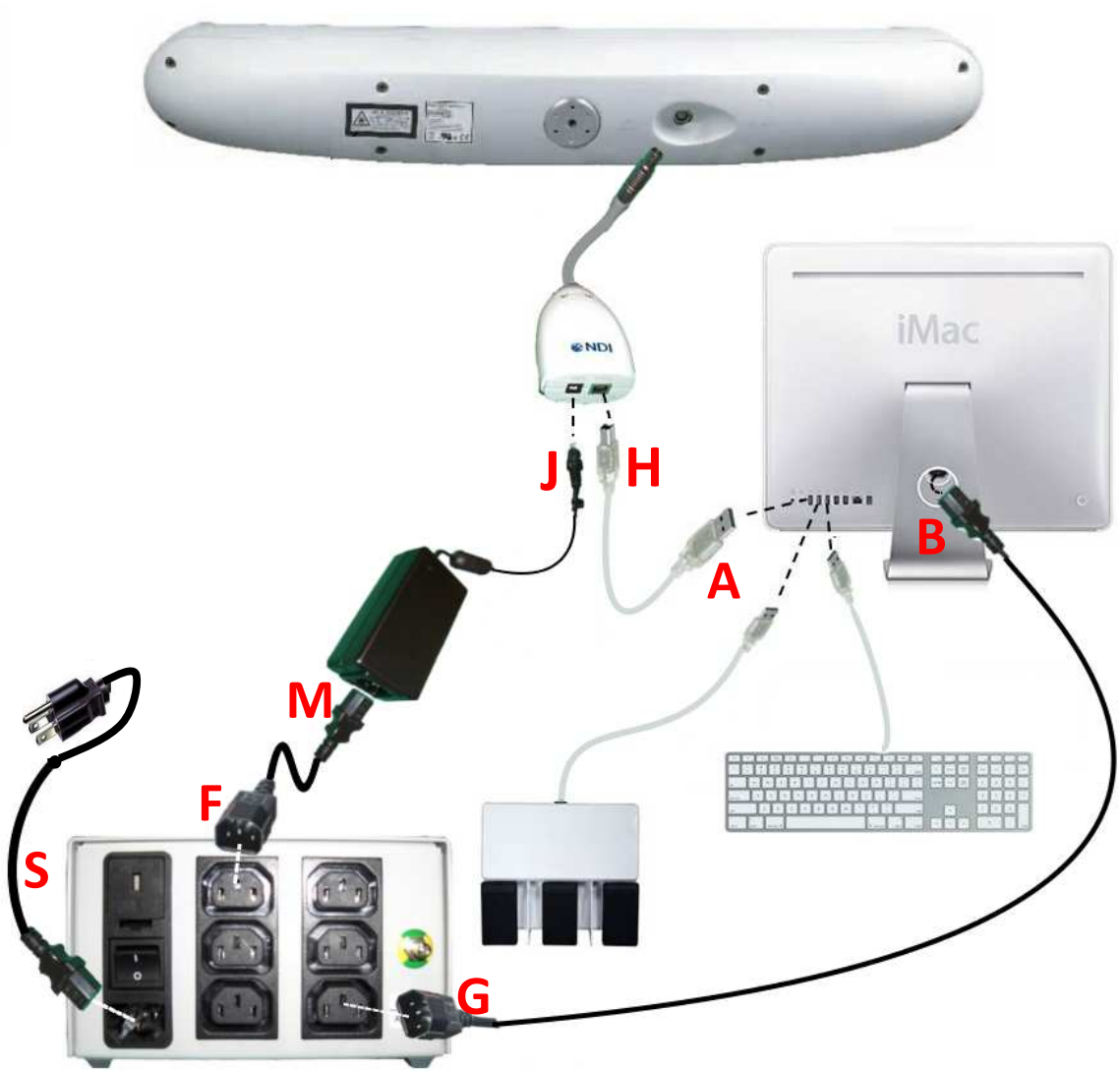
Start the iMac© computer by pressing the button on the
rear of the computer (figure 20).

9.STARTING THE NAVIGATION SOFTWARE

After having turned on the computer, wait a few seconds for the operating system to boot and any peripherals to be recognised.

For the instructions on the startup and use of the iMNS navigation software, refer to the software manuals.

10. CONNECTIONS DIAGRAM



APPENDIX 1 – EQUIPMENT SYMBOLS

SYMBOL	MEANING	LOCATION
	Attention/Caution Consult acompanying documents	iMac computer Polaris Spectra Position Sensor Host USB converter Polaris Spectra power adapter REOMED 600 3-pedal footswitch
	Refer to accompanying documentation	iMac computer Polaris Spectra Position Sensor
	Laser warning Consult accompanying documents	Polaris Spectra Position Sensor
	ON (power: connection to the mains supply)	Polaris Spectra Position Sensor Host USB converter REOMED 600
	OFF (power: disconnection from the mains supply)	REOMED 600
	Status (see user manual)	Polaris Spectra Position Sensor
	Error (see user manual)	Polaris Spectra Position Sensor Host USB converter
	Laser Activation button	Polaris Spectra Position Sensor
	Connection Port	Polaris Spectra Position Sensor
	Recycle where possible or return to manufacturer	Polaris Spectra Position Sensor Host USB converter Polaris Spectra power adapter REOMED 600
	Direct Current (DC)	Host USB converter Polaris Spectra power adapter
	Alternating Current (AC)	iMac computer Polaris Spectra power adapter
	USB port / USB plug	iMNS identification plate Host USB converter 3-pedal footswitch
	ON/OFF button	iMac computer
	Indoor use only	Polaris Spectra power adapter

APPENDIX 2 – ACRONYMS AND ABBREVIATIONS

AC	Alternating Current
CD	Compact Disc
DC	Direct Current
DVD	Digital Versatile Disc
EMC	Electromagnetic Compatibility
IR	Infra Red
LED	Light Emitting Diode
RAM	Random Access Memory
USB	Universal Serial Bus