NOTES
This document is provided as a consultation manual intended for the device users.

CEFLA s.c. follows a policy based on the constant development and update of the product. For this reason, it reserves the right to change the content of this manual without prior notice.

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The original version of this manual is in English.

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INFORMATIVE NOTE OF THE MANUFACTURER ON THE MEDICAL DEVICES

The medical device referred to in this manual is an X-ray device compliant with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Any tampering with, modification, updating or other change both of hardware\(^1\) and software\(^2\) of the device as supplied and installed by the company (and in the conditions specified in the attached documentation) may partially or totally compromise the device expected operation. This may also alter the safety features with consequent hazard increase for patients, operators and surrounding environment.

For this reason, should the user need to modify the device, he/she must request a written authorisation by CEFLA s.c.

Failure to comply with what is specified in this informative note will null and void the device warranty and the civil and/or penal responsibility for any consequent damage and/or accident and/or worsening of the patient, operator or other people health (including the surrounding environment) will be borne by the person who tampered with the device or his/her legal representative.

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\(^1\) Adding of a new memory expansion, a new hardware on the connection bus, a printer, the replacement of the graphic display interface represents an important modification.

\(^2\) Including the operative system and the applications already installed upon medical device delivery. Automatic updates of the operative system, changes to network connection parameters, modification and/or addition and/or removal of interface software with hardware (device driver) and/or services (e.g. file and printer sharing service) and/or applications represent an important modification.
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1 Target and Application Field

This manual provides informations and instructions regarding the unpacking, moving, and installation operations about the “NewTom VGi evo” device.

For more details about “NewTom VGi evo”, please refer to the “Service Manual” document.

This manual is intended for trained personnel recognized by the manufacturer of the “NewTom VGi evo” device. Prior to operating or servicing this device, this manual must be read and understood.

Keep this and other associated manuals for future reference and for new operators or qualified service personnel.
2 Unpacking and moving the equipment

2.1 Inspection and unpacking instructions

Thoroughly inspect the exterior of the crates for damages, which might have occurred during shipment. Report any damage to delivering carrier and follow their instructions.

Each crate is equipped with a tilt watch indicator that turns from white to red if the package has tilted during shipment. Check the indicator before opening the crates.

WARNING: During the process of unpacking, dismounting and re-mounting the equipment, Electro Static Discharges (ESD) may occur. Please refer to the “Service Manual” document for a proper protection against ESD.

The equipment is shipped in three crates: one for the upper part of the mechanical structure, one for the control box, the lower part of scanner unit and its accessories and one for the rotating part of scanner unit. Make sure that enough space is available to uncrate the equipment, and have easy access to the installation site.

CRATE 1: Upper column + Covers + Feet
CRATE 2: Control Box + Lower column + Chinrest + Accessories + PC + Monitor
CRATE 3: Rotating arm

Remove the packing list and verify that all the listed parts are included in the crates.

WARNING: Never try to uncrate and stand up the equipment before unloading from the delivery truck.

Remove all the packing material and store the component boxes in a safe place. Carefully inspect all components inside the crate for signs of any shipping or internal damage. Do not attempt set-up, installation, or operation of any damaged system.
2.1.1 Opening crate 1
Crane 1 includes the upper part of the column, the feet of the device and four cartoon boxes with the covers of the equipment.

Pay particular attention to do not scratch the covers while removing from the cartoon box.

2.1.1.1 Cartoon box 1
The first box includes the parts listed below

![Cartoon box 1 parts](image)

99934964  99935045  99935046  99935019  99935020  99935021
99935033  99935018  99935022  99935023  99935024  99935035
99934968  99934958  99934969

2.1.1.2 Cartoon box 2
The second box includes the parts listed below

![Cartoon box 2 parts](image)

99935030  99934961  99934962  99934963

2.1.1.3 Cartoon boxes 3-4
The third and fourth boxes includes the parts listed below

![Cartoon boxes 3-4 parts](image)

99935013  99935014  99935015  99935016
2.1.2 Opening crate 2
Crate 2 includes the lower part of the column, the control box, the chinrest, the computer, the monitor all the accessories, documents and screws.

2.1.3 Opening crate 3
Carefully open the crate and loosening the wooden screw, remove the top and lateral sides of the crate. Slide the rotating arm out of the base together with its wood support.

Rebuild the crate as it will be used to support the rotating arm during its assembly on the column.
3 Mounting the equipment

3.1 List of bolts

TSCE: Allen Head flat cap

TCCE: Allen Head socket cap

TBCE: Allen Head button cap

TE:

FLAT WASHER

SPLIT LOCK

NOTE:
To conduct installation and maintenance, the NewTom VGi evo requires a minimum distance of 25 cm (10 inches) from the rear wall and 25 cm (10 inches) from the sidewalls.

Define the final position of the machine.
Place horizontally the upper and lower part of the main structure and fix them together using n° 8 M8x25 screws.
Mount the actuator on the column structure using the provided cotter pins.

After the actuator has been mounted, remove the block plate as shown in the picture on the side.

Install the feet of the device on the two legs.

Mount the two legs of the device using the provided bolts.
Lift the scanner unit to a standing position.

Fix the XM3 terminal bar with the aid of n°2 4x10 (1).

Fasten the earth cable from the upper part to the lower earth bar (2).

Connect the Ethernet cable and fix it with the aid of a cable tie (3).

**WARNING:**
*Wires and terminal numbering must coincide!*

Connect to the XM3 terminal bar the wires from the control box (1).

Connect the earth cable from the control box to the earth bar (2).
Mount the main connectors plate and properly connect all the cables coming from the upper part of the structure.

**WARNING:**
Double check that each cable (identified by a label) matches with the corresponding connector on the plate.

Place the rotating arm on the crate.

Remove the two screws as pointed in the picture on the side.

Move the crate close to the machine to fix the rotating part to the mechanical structure using 8 M6x30 TCCE screws with split lock washers (4 screws on each side).

Remove the crate and carefully slide out the wood structure.

Once they are accessible, tighten the two last M6x30 screws on the structure.
Properly connect all the MOLEX connectors.

**WARNING:**
Wires numbering must coincide!

Properly connect the wires to M3 terminal (2).

**WARNING:**
Wires and terminal numbering must coincide!

Fasten the earth cable (3).

Remove the locking plate from the rotating arm.
4 Connecting the equipment

4.1 Connecting the power supply

“NewTom VGi evo” is designed and certified for permanent connection to the electric mains power line. It should NOT be connect via (detachable) power cord with plug and socket, since this might invalidate the conditions upon which certain technical certifications (CE, CSA, ...) are based.

“NewTom VGi evo” is delivered with a 10m long power cable already assembled (for the Chinese Market please see the note below).

The input panel is shown in the following picture. The mains power cable provided and pre-connected is Interpower Components Ltd Type SJT 86020620, or equivalent, and complies with the requirements of the certified safety marks CE, CSA, VDE, HAR.

NOTE FOR CHINESE MARKET

For the Chinese Market “NewTom VGi evo” is not delivered with power supply cable.

In case of, for any reason, this cable needs to be locally replaced, the replacement cable MUST be CCC (China Compulsory Certification) approved.

In case of, for any reason, this cable needs to be locally replaced, the replacement must comply with IEC245 & IEC227 standards, with CE, CSA, VDE, HAR safety and quality marks and with any applicable national certification, and the following directions must be followed:

The minimum section of each wire of the cable must be 2.5mm² (AWG 14), and the color of the conductors must be brown (line) / blue (neutral) / green-yellow (safety ground).

Power supply cord neutral (blue) and line phase (brown) conductors must be connected to XM1 I/O Terminal as shown in the following picture.
“NewTom VGi evo” can operate at any of the following nominal mains voltages: 100 / 115 / 200 / 220 / 230 / 240 Vac. The equipment can operate (with the rated specification) with a +/-10% tolerance range with respect to the nominal mains voltage.

The factory default setting is 230 Vac.

For nominal mains voltage different from 230 Vac, before powering the equipment, connect the black cable (LINE) at terminal 26 to the correct terminal (22-27) according to the local power supply (refer to the diagram on the side).

The safety ground (green-yellow) conductor of the power supply cable must be secured connected to the EB1 ground bar as shown on the following picture.

The specific manner by which the power supply cable is connected to the mains power network may depend upon national and local regulations on safety of electrical installations. Consult a certified electrician, skilled with local practices and regulations, to define the specific connection manner.

In general, it MUST be possible to disconnect (break) the electrical supply power externally to “NewTom VGi evo”. Unless otherwise directed by local electrical safety regulations, or by practical considerations, we recommend that the electrical power cable from “NewTom VGi evo” be connected (A) via a dedicated local circuit breaker, preferably with maximum-load tripping action, with or without GFCI functionality (Ground Fault Circuit Interrupter).

Alternatively (B) the electrical power cable from “NewTom VGi evo” can be connected via a simple mains terminal block to a dedicated (=exclusive) line from the mains distribution box, if available (Note: by dedicated line we mean a line from mains distribution box the which is individually protected by an existing fuse and/or max. current breaker).

(A) Circuit breaker (see picture).
The maximum load (= effective current) absorbed by “NewTom VGi evo” during execution of an exam, is 15A for the 100/115V range, 12.5A for the 200V range and 10A for the 220/230/240V range. Therefore, a circuit breaker based upon magneto-thermal action (the most common type) should be rated at the above-mentioned rating. That is also the rating for wires and (retarded-action) fuses. Please note, however, that these are effective current ratings. Like with most electrical and electronic loads, the maximum instantaneous (peak) current (for duration shorter than one mains pulse) may significantly exceed those values, e.g. at power-up (inrush current) and during x-ray emission. It is impossible to provide absolute guidelines about instantaneous (peak) current, because it depends upon the nature of the local mains power network (mains “stiffness”). If very-fast-acting devices are used (e.g. electronic breakers or USP devices), they need to be rated higher than “NewTom VGi evo” effective rating.

(B) Terminal block and dedicated line from the mains distribution box.

The dedicated line from the mains distribution box must be protected, breakable, and rated to carry at least the load (effective current) aforementioned.

“NewTom VGi evo” is delivered from the factory with mains line fuse F1 (see picture) set for 230V, i.e. T10A. In case of mains power in the 100-115V range, replace fuse F1 with a T15A fuse. Spare fuses are originally delivered with “NewTom VGi evo”.

All fuses must bear the applicable quality certification marking (e.g. UL/CSA).
4.2 Connecting the external emergency button

The external emergency button (see picture on the side), has to be installed near the console that controls the equipment.

Connect the cable of the external emergency button with the XM1 terminal block connector inside the machine.

The two wires of the cable must be connected with terminal 9 and 10.

Once the cable is connected fix it to the control box with the cable gland. Be sure the cable is tied.

4.3 Connecting the ready state switch (optional)

A ready state switch connection is available in the machine.

The switch has the following specifications:

- 250Vac, 4A or 30Vdc 4A

The XM1 terminal block provides the connection to the internal switch: the two wires of the cable must be connected with terminal 13 and 14.

Once the cable is connected fix it to the control box with the cable.
gland. Be sure the cable is tied.

4.4 Connecting the external door switch (optional)

An external door switch can be connected with the machine. This switch inhibits the emission of the X-Ray source when the involved door is open.

The switch’s cable has to be connected in the XM1 terminal block with terminal 17 and 18.

Once the cable is connected fix it to the control box with the cable gland. Be sure the cable is tied.

4.5 Connecting the X-Ray emission remote button

The device is equipped with an X-Ray emission button and an 10 mt extension cable. In case a longer extension cable is required, use a 4 wires RJ11 cable cable with a six wire RJ11. It is recommended to do not exceed a length of 20 mt.

<table>
<thead>
<tr>
<th>Extension RJ11 cable</th>
<th>X-ray button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BROWN</td>
<td>X-ray emission switch</td>
</tr>
<tr>
<td>2</td>
<td>RED</td>
<td>X-ray emission switch</td>
</tr>
<tr>
<td>3</td>
<td>RED</td>
<td>“Ready” LED</td>
</tr>
<tr>
<td>4</td>
<td>BLUE</td>
<td>“Emission” LED</td>
</tr>
<tr>
<td>5</td>
<td>n.c.</td>
<td>n.c.</td>
</tr>
<tr>
<td>6</td>
<td>n.c</td>
<td>n.c.</td>
</tr>
</tbody>
</table>
4.6 Connecting the console workstation

For the preparation of the console workstation refer to the document "VGi evo - Workstation Setup annex CODE 97050726". Be sure the calibration file provided by the manufacturer have been copied.

Two cables connect the scanner unit with the console workstation:

- **Ethernet cable (Cat 6), for the transmission of the acquired images between PC and scanner unit;**
  Connect the Ethernet cable with the "Intel Gigabit CT Desktop Adapter " Ethernet port located in the back panel of computer (see the above picture).

- **CANbus cable used for the I/O between PC and control box;**
  Connect the CANbus cable with “Peak PCAN PCI Express” board port located in the back panel of the computer through the CAN terminator adapter (see the above picture).

Check the path of the cables, from the console to the equipment, to ensure the cables are not folded, pinched or damaged (especially behind the computer). Shelter the cables by using surface raceways or cable protectors, and place them away from walk areas in order to avoid people to trip over them.
5 Mounting the equipment covers

5.1 Mounting procedure

1. Temporarily connect the emergency button on connector C40.

2. Manually move the rotating arm at the reset position by pressing the PB3 button on the NIM040A located at the RP1 rack (see below).
3. Mount the "CARTER COP.INF.CARRO TRAS.NEXT - 99934969" on the "CARTER TRASLANTE - 99935017" with n°4 M5x16 TCCE screws.

4. Fix the "CARTER TRASLANTE - 99935017" with n°6 M6x20 TBCE (3 screws on each side). After that centering the laser like last paragraph.
5. Mount the emergency switch button on the "CARTER TRASLANTE - 99935017".

6. If present, safely place the two cables labelled as C42F in such a way the will not interfere during the column movement. These cables do not have to be connected.

7. Place the cable of the two laser as shown in the following pictures, fixing in with the aid of cable ties, then insert the C18 connector in the connector plate.
8. Fix the “LAMIERA INF CHIUSURA MENSOLA - 99935023” with n°2 M6x10 TCCE and n°2 M5x10 TSCE.

9. Place the "LAMIERA CHIUSURA SUP TRAV ROT - 99935030" and fix it with n°4 M5x10 TSCE.
10. Place the "LAMIERA CIRCOLARE INF MENSOLA - 99935024" coupling it with "LAMIERA INF CHIUSURA MENSOLA - 99935023".

Rotate the arm until you can see the holes for the screws. Fix the cover with n°4 M5x10 TSCE.

11. Place the "CARTER SELLA BR. ROTANTE NEXT - 99934963". Fix the cover with n°4 M5x10 TSCE screws.
12. Mount the two “ANGOLARE SUPP RULLI TAPPARELLA – 99934933” using n°2 6x20 TCCE screws.

13. Mount the “GR RULLO VGI EVO - 96603008”. Gently tighten the nuts located at the extremities of the roller, paying attention to do not lock the roller.

14. Insert the “Counterweight” inside the two green rail by sliding it from the bottom.
15. Slide the “TAPPARELLA AKS-4 COMPLETA - 99934958” from the bottom of the two green rail.

16. Fix the “TAPPARELLA AKS-4 COMPLETA” to the “Counterweight” using nº2 6x16 TCCE with a split lock washer.

17. Mount the “ATTACCO GRUPPO CONSOLE”. The console can be mounted only on one side (left or right) depending on the provided parts. Please verify if the console you received is supposed to be mounted on the right (default) or on the left. Next steps refer to a console mounted on the left side of the scanner.
18. Mount the four iron spacers on the back of the main structure as shown in the following picture.

![Diagram showing the mounting of iron spacers](image)

19. Mount the “VASCA INFERIORE - 99934748”

![Diagram showing the mounting of “VASCA INFERIORE”](image)

20. Mount the “ATTACCO GRUPPO CONSOLE SX – 99935028” on the “MONTANTE SX SUPERIORE – 99935013” using n°4 M4 nuts with split lock washer.

![Diagram showing the mounting of nuts with split lock washer](image)
21. Join the “MONTANTE SX INFERIORE – 99935015” and “MONTANTE SX SUPERIORE – 99935013” together with 2 M6x20 TCCE with washer and nuts.

22. Place the two covers previously coupled, on the scanner unit, then fix them with n°3 M6x8 TBCE and with n°3 M6x50 TBCE (see following pictures).
   Carefully pass the cables for the console inside the holes of the cover.
23. Mount the console as shown in the following pictures: first insert the console paying attention the clip is in the correct position. Once the pipe is all the way inserted rotate it to lock. At the end mount the “ATTACCO CONSOLE CHIUSURA SX – 99935029” using n°2 M4x5 TBCE.

24. Pass the cable in the console pipe, connect the cable extensions and close the pipe using the provided cap.

25. Connect the two cables to connectors KCB1 and KAL5 and of the console board, then close the console as shown in the following pictures using the provided screws.
26. Join the "MONTANTE DX INFERIORE – 99935016" and "MONTANTE DX SUPERIORE – 99935014" together with 2 M6x20 TCCE with washer and nuts.

27. Place the two covers previously coupled, on the scanner unit, then fix them with n°3 M6x8 TBCE and with n°3 M6x50 TBCE (see following pictures).
28. Mount the "LAMIERA TAPPARELLA SUPERIORE - 99935035" using n°2 M6x20 TCCE screws.

29. Attach the "TAPPARELLA - 99934958" to the "LAMIERA TAPPARELLA SUPERIORE - 99935035" using n°3 M6x20 TCCE screws.

30. Screw n°2 6x20 TBCE on the top of the scanner as show in the following pictures. Be sure to do not tighten the bolts all the way as they will be used as guides for the next cover.
31. Mount the “LAMIERA CHIUSURA SUPERIORE - 99935022” using n°2 M6x20 TBCE screws

![Image of LAMIERA CHIUSURA SUPERIORE](image1)

32. Mount the “CARTER COPERCHIO COLONNA NEXT - 99934968” and fix it with n°6 M6x20 TCCE screws.

![Image of CARTER COPERCHIO COLONNA NEXT](image2)

33. Raise the rotating arm to reach the maximum height.

34. Mount the “GR POGGIAMENTO MOT. VGI EVO - 96603001” using n°4 M6x70 TCCE with washers. Bolts can be tightened by accessing them from the back of the column.

![Image of GR POGGIAMENTO MOT. VGI EVO](image3)
35. After fixing the "head support", place the cable as shown in the following picture inside the cable raceway, then connect C25, C26, C27 connectors on the connector plate located on the back of the machine.

![Installation Process](image)

36. Mound the two handle bars as shown in the following picture

![Handle Bar Mounding](image)

37. Be sure the Ethernet cable is properly connected to the RJ45 adapter as shown in the following picture.
38. Place the "PANNELLO FRONTELE - 99935033" sliding it inside the two clips as shown in the following picture. Fix the panel with n°2 M6x20 TBCE screws.

39. Mount the "PANNELLO SUPERIORE POST – 99935021" and fix it with n°4 M6x8 TBCE screws.

40. Mount the "PANNELLO INFERIORE POST – 99935019" and fix it with n°4 M6x8 TBCE screws.

NOTE: the last rear cover, the "PANNELLO CENTRALE POST- 99935020" will be mounted after the laser position has been verified.
41. Mount the “PANNELLO CENTRALE POST – 99935020” and fix it with n°8 M6x8 TBCE screws.

42. Mount the "CARTER PANNELLO NEXT- 99934962" as shown in the following pictures. First insert the two joints, then fix the cover with n°2 M5x10 TSCE screws.

43. Mount the "CARTER GENERATORE NEXT- 99934961" and fix it with n°2 M5x10 TSCE screws (upper side). Pay attention for the joints (lower side).
44. Mount the "CARTER COPERCHIO MENSOLA NEXT - 99934964" and fix it with n°5 M6x20 TCCE screws and n°1 M6x16 TCCE.

45. Mount the "CARTER PIEDE DX COMPLETO - 99935045" and the "CARTER PIEDE DX COMPLETO - 99935046".

46. Mount the "GR TAVOLETTA - 96603021" on the motorized head support in order to be ready for the calibration of the device.
5.2 Fixing the device

It is highly recommended to secure the device to the wall using the provided brackets ("LAMETTA FISSAGGIO MURO - 99935018"). Each bracket can be mounted on the back of the scanner using n°2 M10x25 socket head screws with washers.

Select a fastening system suitable for the wall capacity, considering that the maximum load that each anchoring point must be capable to withstand is not critical, since the whole system is resting on its legs.

In case of installation in a environment subject to significant vibrations, the bolts could be fit with rubber vibration-dumping pads. Rubber bumpers can also be used underneath the legs.
The maximum load that each fixation must be capable to withstand is not critical since the bolts mainly have the purpose to stabilize, but the load is mostly born by the legs.

In case of installation in a environment subject to significant vibrations, the bolts could be fit with rubber vibration-dumping pads. Rubber bumpers can also be used underneath the legs.
6 Testing the equipment

6.1 Electrical safety checks

Please contact the CEFLA S.C. Technical Support for more informations about tests.

WARNING:
The electrical safety checks involve the use of dangerous tensions. It is necessary pay the maximum attention, before, during and after the tests IN ORDER TO AVOID ELECTRICAL SHOCK AND/OR TO CAUSE IRREVERSIBLE DAMAGES AT THE DEVICE

In the following table, in order to execute the electrical safety checks, the normative references and the limits of acceptability for the device are indicated:

<table>
<thead>
<tr>
<th>Protective earth resistance</th>
<th>IEC 60601-1 Ed.2 par. 18 f)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IEC 60601-1 Ed.3 par. 8.6.4 a)</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>IEC 60601-1 Ed.2 par. 20</td>
</tr>
<tr>
<td></td>
<td>IEC 60601-1 Ed.3 par. 8.8.3</td>
</tr>
<tr>
<td>Leakage current</td>
<td>IEC 60601-1 Ed.2 par. 19.1, 19.2, 19.3, 19.4</td>
</tr>
<tr>
<td></td>
<td>IEC 60601-1 Ed.3 par. 8.7</td>
</tr>
</tbody>
</table>

Once the equipment has been installed a few tests must be performed in order to verify the system functionality before calibrating the device.

Refer to the “Service Manual” - Par. “Testing the Equipment” in order to execute the Electrical Safety Checks and other equipment tests.

6.2 Other test

Once the equipment has been installed, a few basic tests need to be carried out in order to verify the system functionality before running the calibration process.

1. Turn on the scanner and the main workstation and verify the software recognize the system and connect without errors.

2. Perform a motor test.

3. Perform a single acquisition in order to verify the acquisition system works properly.
# 7 Calibrating the system

For the calibration of the system during an installation, refer to the “Service Manual”, Chap.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Set the right input power supply line on the correct terminal (22-27) according to the local power supply. (refer to the chapter “Connecting the power supply” or corresponding VGi evo Service Manual).</td>
</tr>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td></td>
</tr>
</tbody>
</table>
| 2. | Turn on the equipment and with the aid of a multimeter adjust (acting on P2 potentiometer) the OFFSET value on the inverter board to a value of 0÷10 mV.  
Refer to the two pictures on the side for the test point to be used for the measurement. |
| ![Image](image2.png) |
| 3. | From the scanner test window perform the X-Ray source forming process.  
(Tools → X-Ray source forming process).  
**NOTE:** performing the X-ray forming process as initial setup of the tube, instead of the mA curve, will allow the x-ray source to start shooting with lower kV values. |
| ![Image](image3.png) |
| 4. | Wait 10 minutes. |
| ![Image](image4.png) |
| 5. | Perform the X-Ray source conditioning process  
(Scanner Test → Tools → X-Ray source conditioning). |
| ![Image](image5.png) |
6. **Turn OFF the device and wait 1 hour for the tube to cool down.**
   
   **ATTENTION:** Skipping this step could result in error during the daily check in the following days!!

7. Perform the mA curve for both SFS 75 – 110 kV and LFS 75 – 110 kV (**refer to the corresponding VGi evo Service Manual**).

8. From the scanner test window perform the Beam Limiter test (**Tools → Beam limiter test**) (**refer to the corresponding VGi evo Service Manual**).

9. Invalidate the blank (**Scan → Invalidate Blank**) and perform a new one (**if required also perform the Daily Check process**).

10. Perform the “Chinrest calibration” (**refer to the corresponding VGi evo Service Manual, chapter “Adjusting the collimator”**)

11. Perform the calibration of the device and the QA phantom scan (**refer to the corresponding VGi evo Service Manual**).

12. Verify the laser alignment (**refer to the corresponding VGi evo Service Manual**).

13. Perform the “Head Rest Calibration” scanning a QA Phantom **8x8 HiRes** (**refer to the corresponding VGi evo Service Manual**).
8 Finishing touches

Clean the covers and the head support.

Put the X-Ray source identification stickers on the machine and check that all the other labels are placed where recommended.

Empty the error log file.

Set the working directories with the correct paths (depends on the configuration of the system).

Arrange the cables that connect the machine and control box with the computer. Cable have to be sheltered using surface raceways or cable protectors, and should be placed away from walk areas in order to avoid people to trip over it.

At the end of the installation, please compile a copy of “Installation Report” (code 97011121) included in the setup CD, attach the QA report and store with the other registrations of the device.

ONLY FOR USA: Upon completion of an installation, please fill out and review the manufacturer’s “Installation checklist” (code 97050874) that can be found on the Disk documentation.
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