DISCOVERY IGS 7 WITH AUTORIGHT
FINAL STUDY

GE Healthcare

A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the Pre Installation manual will result in incomplete documentation required for site design and preparation.

Pre installation documents for GE Healthcare products can be accessed on the web at: www.gehealthcare.com/siteplanning

GE does not take responsibility for any damages resulting from changes on drawings made by others. Errors may occur by not referring to the complete set of final issue drawing. GE cannot accept responsibility for any damage due to the partial use of GE final issue drawings, however caused. All dimensions are in millimeters unless otherwise specified. Do not scale from printed pdf files. GE accepts no responsibility or liability for defective work due to scaling from these drawings.

Initial release per PIM revision 2

01/May/2020

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A3

1/4"=1'-0"

EN-VAS-TYP-IGS-7-AR-WEB.DWG

01/May/2020

A1

Typical

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DISCLAIMER

GENERAL SPECIFICATIONS

- GE is not responsible for the installation of developers and associated equipment, lighting, cassette trays and protective screens or derivatives not mentioned in the order.
- The final study contains recommendations for the location of GE equipment and associated devices, electrical wiring and room arrangements. When preparing the study, every effort has been made to consider every aspect of the actual equipment expected to be installed.
- The layout of the equipment offered by GE, the dimensions given for the premises, the details provided for the pre-installation work and electrical power supply are given according to the information noted during on-site study and the wishes expressed by the customer.
- The room dimensions used to create the equipment layout may originate from a previous layout and may not be accurate as they may not have been verified on site. GE cannot take any responsibility for errors due to lack of information.
- Dimensions apply to finished surfaces of the room.
- Actual configuration may differ from options presented in some typical views or tables.
- If this set of final drawings has been approved by the customer, any subsequent modification of the site must be subject to further investigation by GE about the feasibility of installing the equipment. Any reservations must be noted.
- The equipment layout indicates the placement and interconnection of the indicated equipment components. There may be local requirements that could impact the placement of these components. It remains the customer's responsibility to ensure that the site and final equipment placement complies with all applicable local requirements.
- All work required to install GE equipment must be carried out in compliance with the building regulations and the safety standards of legal force in the country concerned.
- These drawings are not to be used for actual construction purposes. The company cannot take responsibility for any damage resulting therefrom.

CUSTOMER RESPONSIBILITIES

- It is the responsibility of the customer to prepare the site in accordance with the specifications stated in the final study. A detailed site readiness checklist is provided by GE. It is the responsibility of the customer to ensure all requirements are fulfilled and that the site conforms to all specifications defined in the checklist and final study. The GE Project Manager of Installation (PMI) will work in cooperation with the customer to follow up and ensure that actions in the checklist are complete, and if necessary, will aid in the rescheduling of the delivery and installation date.
- Prior to installation, a structural engineer of record must ensure that the floor and ceiling is designed in such a way that the loads of the installed system can be securely borne and transferred. The layout of additional structural elements, dimensioning and the selection of appropriate installation methods are the sole responsibility of the structural engineer. Execution of load bearing structures supporting equipment on the ceiling, floor or walls are the customer’s responsibility.

RADIO-PROTECTION

- Suitable radiological protection must be determined by a qualified radiological physicist in conformance with local regulations. GE does not take responsibility for the specification or provision of radio-protection.

ALL DETAILS OF EQUIPMENT AND TECHNICAL DATA ARE SUBJECT TO CHANGE.

THE UNDERSIGNED, HEREBY CERTIFIES THAT I HAVE READ AND APPROVED THE PLANS IN THIS DOCUMENT.

<table>
<thead>
<tr>
<th>DATE</th>
<th>NAME</th>
<th>SIGNATURE</th>
</tr>
</thead>
</table>

GLOBAL SITE READINESS CHECKLIST (DI)

DOC1809666 Rev. 7

Site Ready Checks at Installation

<table>
<thead>
<tr>
<th>EHS Site Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall access route to the scan room free from obstruction / high hazards.</td>
</tr>
<tr>
<td>Enough space to store tools, equipment, parts, install waste and the general area free from obstruction and trip hazards.</td>
</tr>
<tr>
<td>Enough necessary facilities for the GE employees available.</td>
</tr>
<tr>
<td>No 3rd parties working in the area that may affect the safety of the installation activity.</td>
</tr>
<tr>
<td>Area free from any chemical, gas, dust, welding fume exposure and has been painted completely and dry.</td>
</tr>
<tr>
<td>All emergency routes identified, signed and clear from obstruction.</td>
</tr>
<tr>
<td>Accessible single source lockable panel that LOTO can be applied to for GE equipment installation (MDP and/or PDU).</td>
</tr>
<tr>
<td>There are no other conditions or hazards that you have observed or have been made aware of by the customer or contractors on site.</td>
</tr>
</tbody>
</table>

Required for Mechanical Install start

- Room dimensions, including ceiling height, for all Exam, Equipment/Technical & Control rooms meet GE specifications.
- Ceiling support structure, if indicated on the GE drawing, is in the correct location and at the correct height according to the Original Equipment Manufacturer specifications.
- Levelness and spacing has been measured, and is ready for the installation of any GE supplied components.
- Overhead support Structure (unistrut) has been confirmed with customer/contractor to meet required GE provided criteria.
- Finished ceiling is installed. If applicable ceiling tiles installed per PMI discretion.
- Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications.
- Entry door threshold meets PIM requirement
- Floor Strength and thickness have been discussed with customer/contractor and they have confirmed GE requirements are met.
- Rooms that will contain equipment, including staging areas if applicable, are construction debris free. Precautions must be taken to prevent debris from entering rooms containing equipment.
- Cable ways (floor/wall/ceiling/Access Flooring) are available for installation of GE cables are of correct length and diameter.
- Cable ways routes per GE final drawings and cable access openings areas installed at a time determined by GEHC PM. Surface floor duct can be installed at time of system installation.
- Adequate room illumination installed and working.
- Customer supplied countertops where GE equipment will be installed are in place.
- Vascular baselines preparation complete per GE requirements.
- For IGS 730/740: Room Interventional Reference Point (RIRP) value has been defined with the customer. Either 1120mm, 1278 mm or 1508 mm.
- Floor strength and thickness have been discussed with customer/contractor and they have confirmed GE requirements are met.
- Ensures that all third party suppliers are identified and have been informed about the project dates and how they need to proceed in accordance with their needs for interfacing to our equipment.

Required for Calibration start

- HVAC systems Installed, and the site meets minimum environmental operational system requirements.
- System power & grounding (PDB/MDP) is available as per GE specifications.
- System power & grounding (PDB/MDP) is installed at point of final connection and ready to use. Lock Out Tag Out is available.
- PMI to confirm all feeder wires and breaker are size appropriately. EPO installed if needed.
- PMI to confirm with electrician all power and signal cables are well terminated ensuring there are no loose connections.
- Network outlets installed.
- Computer network available and working.
- Lead doors and windows complete or scheduled to be installed. If applicable, radiation protection (shielding) finished & radioprotection regulatory approval for installation obtained.

Note: The details shown here are only an extract from DOC1809666. For the complete document please contact your PMI.
**CUSTOMER SITE READINESS REQUIREMENTS**

- Any deviation from these drawings must be communicated in writing to and reviewed by your local GE healthcare installation project manager prior to making changes.

- Make arrangements for any rigging, special handling, or facility modifications that must be made to deliver the equipment to the installation site. If desired, your local GE healthcare installation project manager can supply a reference list of rigging contractors.

- New construction requires the following:
  1. Secure area for equipment,
  2. Power for drills and other test equipment,
  3. Capability for image analysis,
  4. Restrooms.

- Provide for refuse removal and disposal (e.g. crates, cartons, packing)

- It is the customer's responsibility to contract a vibration consultant/engineer to implement site design modifications to meet the GE vibration specification. Refer to the system preinstallation manual for the vibration specification.

**CONNECTIVITY REQUIREMENTS**

Service Connectivity for new systems will be based on the Insite-RsVp Platform which allows to configure a direct Internet connection to the RsVp Server (routers/VPN tunnel no more mandatory). Communication with the RsVp server will be outbound only and require using Transport Layer Security (TLS) over TCP port 443. This is commonly known as an HTTPS (HTTP-Secure) connection.

There will be several ways to connect the system to the RsVp Enterprise Server. See below the main options that might not be all available or authorized at your site depending on actual network constraints or local regulations:

- The system allows for DNS configuration or proxy server-based connection to the Internet.
- Connection thru a GE Proxy will be possible in the future.
- In the case the customer does not accept the above connection protocol or regulatory reasons prevent using these types of configurations, the local/regional connectivity teams can provide help to connect through SSL/TLS proxy IP over the site-to-site VPN.

To make the system connectivity operational before the system installation is finished, ensure the connectivity solution is defined as early as possible during the pre-installation process and proper information are exchanged between the customer Network Administrators and GEHC Sales and/or Service representatives.

For more information please refer to the latest version of the Pre Installation Manual.

**ELECTROMAGNETIC INTERFERENCE**

The IGS System is intended for use in the electromagnetic environment specified below. The Customer or the user of the System should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>EMISSIONS</th>
<th>TEST COMPLIANCE</th>
<th>ELECTROMAGNETIC ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio–Frequency Emissions</td>
<td>Group 1 Class A limits</td>
<td>The IGS System uses Radio Frequency energy only for its internal function. Therefore, its Radio Frequency emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>CISPR11</td>
<td></td>
<td>The IGS System is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>Harmonic emissions</td>
<td>Not applicable</td>
<td>The IGS System is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>IEC 61000–3–2</td>
<td></td>
<td>The IGS System is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>Voltage fluctuations/flicker emissions IEC 61000–3–3</td>
<td>Not applicable</td>
<td>The IGS System is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>BY</td>
<td>ITEM</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>----</td>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>Advantage workstation</td>
</tr>
<tr>
<td>A</td>
<td>2</td>
<td>Operator console</td>
</tr>
<tr>
<td>A</td>
<td>3</td>
<td>C-FRT Cabinet</td>
</tr>
<tr>
<td>A</td>
<td>4</td>
<td>System Interface Cabinet (PDU)</td>
</tr>
<tr>
<td>A</td>
<td>5</td>
<td>Detector conditioner</td>
</tr>
<tr>
<td>A</td>
<td>6</td>
<td>COOLUX 4100 tube chiller</td>
</tr>
<tr>
<td>D</td>
<td>7</td>
<td>Main disconnect panel (MDP)</td>
</tr>
<tr>
<td>D</td>
<td>8</td>
<td>20kVA Fluoro UPS UL</td>
</tr>
<tr>
<td>A</td>
<td>9</td>
<td>Xray buzzer</td>
</tr>
<tr>
<td>A</td>
<td>10</td>
<td>Bolus Chase</td>
</tr>
<tr>
<td>A</td>
<td>11</td>
<td>Gantry</td>
</tr>
<tr>
<td>A</td>
<td>12</td>
<td>Fitting table</td>
</tr>
<tr>
<td>A</td>
<td>13</td>
<td>Cable management system</td>
</tr>
<tr>
<td>A</td>
<td>14</td>
<td>Positioning targets (x11)</td>
</tr>
<tr>
<td>A</td>
<td>15</td>
<td>Monitor suspension short bridge</td>
</tr>
<tr>
<td>A</td>
<td>16</td>
<td>Longitudinal stationary rail</td>
</tr>
<tr>
<td>D</td>
<td>17</td>
<td>Large Display Monitor with two backup monitors</td>
</tr>
<tr>
<td>D</td>
<td>18</td>
<td>Mavig rad shield with 2.5m ceiling track</td>
</tr>
<tr>
<td>D</td>
<td>19</td>
<td>Injector on pedestal</td>
</tr>
<tr>
<td>D</td>
<td>20</td>
<td>Vitaling speaker</td>
</tr>
<tr>
<td>D</td>
<td>21</td>
<td>Vitaling console</td>
</tr>
<tr>
<td>D</td>
<td>22</td>
<td>Vitaling microphone</td>
</tr>
<tr>
<td>D</td>
<td>23</td>
<td>Vitaling microphone (one on monitor bridge in exam room)</td>
</tr>
<tr>
<td>D</td>
<td>24</td>
<td>Warning light controller</td>
</tr>
<tr>
<td>C</td>
<td>25</td>
<td>Cable drape rail</td>
</tr>
<tr>
<td>C</td>
<td>26</td>
<td>Storage cabinet</td>
</tr>
<tr>
<td>C</td>
<td>27</td>
<td>Counter top with base and wall cabinets</td>
</tr>
<tr>
<td>C</td>
<td>28</td>
<td>Control wall to ceiling with lead glass viewing window</td>
</tr>
<tr>
<td>C</td>
<td>29</td>
<td>Counter top for equipment- provide grommeted openings as required to route cables</td>
</tr>
<tr>
<td>C</td>
<td>30</td>
<td>Minimum door opening for equipment delivery is 50.4 in. w x 87 in. h (1280mm x 2200mm), contingent on a 96 in. (2438mm) corridor width</td>
</tr>
<tr>
<td>C</td>
<td>31</td>
<td>Doors to be easily removable and clear of any floor mounted obstructions</td>
</tr>
</tbody>
</table>

**EXAM ROOM HEIGHT**

**FINISHED FLOOR TO SLAB HEIGHT**

**FALSE CEILING HEIGHT**

10'-0"**

**Note:**
- Reflectors to be located above cabinet top; minimum height from finished floor 80.7" (2.05m)
- Ensure the surfaces to be non-reflective and non-mobile for the positioning targets

For Accessory Sales: (866) 281-7545 Options 1, 2, 2 or mail to: gehaccessorysales@ge.com
**PARKING POSITIONS**

<table>
<thead>
<tr>
<th>NAME</th>
<th>RIRP 1508</th>
<th>FEASIBLE DISTANCE</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Park Head 1</td>
<td>500</td>
<td>3930</td>
<td>YES</td>
</tr>
<tr>
<td>Park Left 2</td>
<td>500</td>
<td>4080</td>
<td></td>
</tr>
<tr>
<td>Park Right 2</td>
<td>500</td>
<td>3680</td>
<td></td>
</tr>
</tbody>
</table>

A maximum of two parking positions can be selected.

**BACKOUT POSITIONS**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>NAME</th>
<th>RIRP 1508</th>
<th>TYPICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backouts</td>
<td>Head Long</td>
<td>500</td>
<td>4310</td>
</tr>
<tr>
<td></td>
<td>Head Left</td>
<td>500</td>
<td>2700</td>
</tr>
<tr>
<td></td>
<td>Head Right</td>
<td>500</td>
<td>2700</td>
</tr>
<tr>
<td></td>
<td>Left 1</td>
<td>500</td>
<td>4310</td>
</tr>
<tr>
<td></td>
<td>Right 1</td>
<td>500</td>
<td>4310</td>
</tr>
</tbody>
</table>

* RIRP: Room Interventional Reference Point
THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area adjacent to the installation site for delivery and unloading of the GE equipment.
- Ensure that the dimensions of all doors, corridors, ceiling heights are sufficient to accommodate the movement of GE equipment from the delivery area into the definitive installation room.
- Ensure that access routes for equipment will accommodate the weights of the equipment and any transportation, lifting and rigging equipment.
- Ensure that all necessary arrangements for stopping and unloading on public or private property not belonging to the customer have been made.

NOTE
The minimum distance between two targets is 400 mm [15.7 in] center to center.
The maximum angle between two adjacent targets is 70°.
The targets are mounted at the time of the gantry installation.
Targets should be visible to the laser source of the AGV:
- Shouldn’t be mounted on movable surface (door, window, etc.).
- Shouldn’t be mounted on a surface that could be hidden in operation by door or movable component.
- Shouldn’t be mounted on or near a reflective surface.

POSITIONING TARGETS

NOTE
The minimum distance between two targets is 400 mm [15.7 in] center to center.
The maximum angle between two adjacent targets is 70°.
The targets are mounted at the time of the gantry installation.
Targets should be visible to the laser source of the AGV:
- Shouldn’t be mounted on movable surface (door, window, etc.).
- Shouldn’t be mounted on a surface that could be hidden in operation by door or movable component.
- Shouldn’t be mounted on or near a reflective surface.
STRUCTURAL NOTES

- All steel work and parts necessary to support ceiling mounted tube hanger or other equipment are to be supplied by the customer or his contractors. The structural support should run continuous with no fittings extending below face of structural support channel, run wall to wall, be parallel, square and in the same horizontal plane flush with finished ceiling. The system is to be cross braced vertically, horizontally and diagonally to allow no movement and a maximum of 1,58mm (1/16") deflection. 12,7mm (1/2") dia. x 38,1mm (1 1/2") long bolts with unistrut 12,7mm (1/2") nuts with springs are to be provided by customer or his contractors for each stationary and auxiliary support rail. Closure strips shall be provided for areas of unistrut exposed and without mounting units.

- Methods of support for the steelwork that will permit attachment to structural steel or through bolts in concrete construction should be favored. Do not use concrete or masonry anchors in direct tension.

- All units that are wall mounted or wall supported are to be provided with supports where necessary. Wall supports are to be supplied and installed by the customer or his contractors. See plan and detail sheets for suggested locations and mounting hole locations.

- All ceiling mounted fixtures, air vents, sprinklers, etc. To be flush mounted, or shall not extend more than 6,35mm (1/4") below the finished ceiling.

- Control walls with tube hanger passage above shall be constructed to 2130mm (7'-0") high.

- Floor slabs on which equipment is to be installed must be level to 3,17mm (1/8") in 3050mm (10'-0")

- Dimensions are to finished surfaces of room.

- Customers contractor must provide all penetrations in post tension floors.

- Customers contractor must provide and install any non-standard anchoring. Documents for standard anchoring methods are included with GE equipment drawings for geographic areas that require such documentation.

- Customers contractor must provide and install hardware for "through the floor" anchoring and/or any bracing under access floors. This contractor must also provide floor drilling that cannot be completed because of an obstruction encountered while drilling by the GE installer such as rebar etc.

- It is the customer’s responsibility to perform any floor or wall penetrations that may be required. The customer is also responsible for ensuring that no subsurface utilities (e.g., electrical or any other form of wiring, conduits, piping, duct work or structural supports (i.e. post tension cables or rebar)) will interfere or come in contact with subsurface penetration operations (e.g. drilling and installation of anchors/screws) performed during the installation process. To ensure worker safety, GE installers will perform surface penetration operations only after the customer’s validation and completion of the “GE surface penetration permit”
1. Area occupied by GE supplied table base plate.


3. Support backing, locate as shown.

4. Structural support in ceiling for fastening ceiling supported equipment. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2" and require 350 lbs. (597 lbs. in seismic regions) per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.

5. Components flush with ceiling:
   Structural support in ceiling for fastening cable drape rail. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2" and require 50 lbs. per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.

6. Customer supplied plate (250x503 [20.5"x19.8"])

7. Structural supports for fastening the overhead counterpoised suspension. Support to be located as shown. Suspension boom requires 102 lbs/bolt support. Methods of support that will permit attachment to structural steel or through bolts in concrete construction should be favored. Do not use screw anchors in direct tension.

8. 600 x 600 [24" x 24"] Service access in ceiling.
**FLOOR SPECIFICATION**

**IMPORTANT**

THE FLOOR SYSTEM COMPATIBLE WITH THE DISCOVERY IGS EQUIPMENT IS THE "MONOPUR 4+3" MONOLITHIC FLOORING SYSTEM INSTALLED BY A CERTIFIED APPLICATOR.

CONTACT YOUR LOCAL GE REPRESENTATIVE FOR THE LIST OF APPLICATORS.

| EXAM ROOM FLOOR ACCEPTANCE SPECIFICATION FOR SUBSTRATE BEFORE MONOPUR APPLICATION |
|-------------------------------|-------------------------------|
| SUBSTRATE FLATNESS            | < 3 mm/2 m [0.12 in/6 ft]    |
| SUBSTRATE LEVELNESS           | < 1 mm/m [0.04 in/3 ft]      |
| PULL-OUT STRENGTH (i.e. Elcometer Adhesion Testor) | > 1.5 MPa [218 PSI] |
| HARDNESS (i.e. Schmidt Hammer Sclerometer) | > 30 N/mm² [4300 PSI] |

**FINISHED FLOOR SURFACE SPECIFICATIONS**

| FLATNESS                      | < 3 mm/2 m [0.12 in/6 ft]    |
| LEVELNESS                     | < 1 mm/m [0.04 in/3 ft]      |

- (Bare) Concrete floor preparation and floor resin application falls under the customer’s contractor responsibility.
- No expansion joint shall be present in the concrete in the area where the flooring system will be applied.
- Electrical connection of the conductive flooring falls under customer’s responsibility.

**XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING**

**GANTER WEIGHT**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>NET WEIGHT</th>
<th>LOAD BEARING AREA</th>
<th>WEIGHT/OCUPIED AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANTRY</td>
<td>TOTAL WEIGHT (IGS 730)</td>
<td>990 kg [2183 lb]</td>
<td>1 m² [10.76 ft²]</td>
</tr>
<tr>
<td></td>
<td>TOTAL WEIGHT (IGS 740)</td>
<td>1000 kg [2205 lb]</td>
<td>1 m² [10.76 ft²]</td>
</tr>
<tr>
<td></td>
<td>REAR ISOLATED LOAD</td>
<td>350 kg [772 lb]</td>
<td>640 mm² [0.09 in²]</td>
</tr>
<tr>
<td></td>
<td>FRONT ISOLATED LOAD</td>
<td>120 kg [263 lb]</td>
<td>135 mm² [0.21 in²]</td>
</tr>
</tbody>
</table>

**FLOOR SPECIFICATION**

**EXAM ROOM FLOOR ACCEPTANCE SPECIFICATION FOR SUBSTRATE BEFORE MONOPUR APPLICATION**

| SUBSTRATE FLATNESS | < 3 mm/2 m [0.12 in/6 ft] |
| SUBSTRATE LEVELNESS | < 1 mm/m [0.04 in/3 ft] |
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| HARDNESS (i.e. Schmidt Hammer Sclerometer) | > 30 N/mm² [4300 PSI] |

**FINISHED FLOOR SURFACE SPECIFICATIONS**

| FLATNESS | < 3 mm/2 m [0.12 in/6 ft] |
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**GANTER WEIGHT**

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<tr>
<th>COMPONENT</th>
<th>NET WEIGHT</th>
<th>LOAD BEARING AREA</th>
<th>WEIGHT/OCUPIED AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANTRY</td>
<td>TOTAL WEIGHT (IGS 730)</td>
<td>990 kg [2183 lb]</td>
<td>1 m² [10.76 ft²]</td>
</tr>
<tr>
<td></td>
<td>TOTAL WEIGHT (IGS 740)</td>
<td>1000 kg [2205 lb]</td>
<td>1 m² [10.76 ft²]</td>
</tr>
<tr>
<td></td>
<td>REAR ISOLATED LOAD</td>
<td>350 kg [772 lb]</td>
<td>640 mm² [0.09 in²]</td>
</tr>
<tr>
<td></td>
<td>FRONT ISOLATED LOAD</td>
<td>120 kg [263 lb]</td>
<td>135 mm² [0.21 in²]</td>
</tr>
</tbody>
</table>
**Material legend**

**A**
- PLATE 2 (12MM) SIZED BY CUSTOMER (ATTACH TO STRUCTURE ABOVE CEILING)

**B**
- PLATE 1 (12MM) 20.5" (520MM) x 19.8" (502MM)

**C**
- HARDENED THREADED RODS (50x50MM) (WELD & GRIND FLUSH TO BOTTOM PLATE 1) (DOUBLE NUT ADJUSTABLE TO PLATE 2)

**D**
- ACCESS PANEL - 24" x 24" (600x600MM)

**E**
- ANCHORED BY (4) M12 GRADE 8.8 BOLTS or ANCHORED BY (4) 1/2" GRADE 5 BOLTS
  - (8) NORD WASHERS
  - (8) NYLOC NUTS
  - MAX. AXIS OF TABLE ROTATION 132.7" (3370MM)
  - MAX. AXIAL EFFORT 153daN
  - MAX. SHEAR FORCE 125daN

**F**
- 8.5" (210MM) DIA. OPENING IN FALSE CEILING (CABLE ACCESS, KEEP CLEAR NO OBSTRUCTIONS)

**G**
- 4" (100MM) x 1" (25MM) OPENING (FOR CABLE GUIDE BRACKET IN FALSE CEILING)

---

**Important Note:** CUSTOMER/CONTRACTOR INSTALLED AND DESIGNED BY STRUCTURAL ENGINEER

- FIRE DETECTION, LIGHTING, VENTILATION, ETC. NOT TO EXCEED FINISHED CEILING
- EACH MOUNTING BOLT MUST NOT "PULL OUT" OR OTHERWISE FAIL UNDER A VERTICALLY DOWNWARD DEAD LOAD OF 635daN

---

**AXIS OF TABLE ROTATION**

**TABLE AXIS**

**DETAIL NOT TO SCALE**
2.5m CEILING TRACK

- Weight up to: 94 kg [207 lb] (75 kg [165 lb] system + 19 kg [42 lb] track)
- The required factor of safety is "4" for attaching to Unistrut or equivalent rails and "6" for attaching to the concrete ceiling.

MONITOR SUSPENSION RAIL MOUNTING SPECIFICATIONS

When a 23 daN force is applied vertically upward, downward or horizontally at any stationary rail mounting point, the attachment interface must not deflect more than 1.5 mm [0.06 in]

When a 45 daN force is applied vertically upward at any stationary rail mounting point, the attachment interface must not deflect more than 1.5 mm [0.06 in]

- All mounting point must be located on a common centerline (tolerance ±1.5 mm [0.06 in])
- Each stationary rail must be mounted by bolts supplied or by 12 mm [0.47 in] as metric bolts. Maximum load per bolt is 160 daN, however each mounting bolt must not "PULL OUT" or otherwise fail under a vertically downward dead load of 635daN.

CEILING SUSPENSION DISCLAIMER

Safety and precautionary comments:

- Only qualified, licensed technicians can perform electrical connections, installation, removal and repair. It is strongly recommended that at least two persons perform the installation.
- Installing the system: Prior to installation, a structural engineer must confirm that the mounting structure is strong enough to provide proper support for the entire system and any attached end devices. Installation must be completed according to local building codes.
- Determination of required installation hardware and torque values for installation of the ceiling column and ceiling track is the sole responsibility of the structural engineer.
- Ceiling mounted systems must be installed properly. Failure to follow the instructions provided may lead to a potentially dangerous and unstable condition of the system.
- GE and/or MAVIG is not responsible for unauthorized modifications made to the system or use of the system for unintended purposes. GE and/or MAVIG cannot be held liable for improper operation and modifications. Since improper modifications may impair proper operation, safety or reliability of the system, product modifications require written authorization from MAVIG.
- Under GE responsibility or under Customer responsibility, for all pre-installations, whatever is the structural company.
- This certificate shall include the definition of fasteners and of their tightening torque, especially for the channel, other channels, direct anchorage in concrete, under GE responsibility or under Customer responsibility, for all pre-installations, whatever is the structural company.

This certificate shall include the definition of fasteners and of their tightening torque, especially for the channel, other channels, direct anchorage in concrete, under GE responsibility or under Customer responsibility, for all pre-installations, whatever is the structural company.

WARNING:

It is prohibited to alter the length of the ceiling column or remove any securing screws.
BASEPLATE COVER - SECTION A-A'

Table baseplate cover
Depth: 4 mm [0.16 in]

MONOPUR 4 + 3 SYSTEM
monolithic flooring
Depth: 7 mm [0.28 in]

TABLE MOUNTING WITH TABLE BASEPLATE

BASEPLATE MOUNTING REQUIREMENTS

- The maximum pullout force per provided anchor was calculated assuming:
  - A concrete compression strength of 30 MPa at 28 days (which is the minimum required compression strength).
  - Anchors installed to the required hole depth of 165.1 mm [6.50 in] minimum.
  - The distance between the center of anchor hole and the edge of the concrete is 79.4 mm [3.13 in].
- Make sure to obtain data on compression strength of the concrete before using floor anchors.
- Chemical anchors can be used as well: HILTHVU adhesive capsule + HAS Anchor rod.
- The fixation screws shall not jut out of the table baseplate, plate has to be level.

PATIENT TABLE

The Utility box under the table is not recommended for the surgical configuration.
It is forbidden to place or install objects under the head end of the table that could interfere with AGV motion.

Scale 1:50
TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

<table>
<thead>
<tr>
<th>ROOM</th>
<th>MIN</th>
<th>RECOMMENDED</th>
<th>MAX</th>
<th>MIN</th>
<th>RECOMMENDED</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature gradient</td>
<td>±10 °C/h</td>
<td>±10 °C/h</td>
<td>±10 °C/h</td>
<td>±10 °C/h</td>
<td>±10 °C/h</td>
<td>±10 °C/h</td>
</tr>
<tr>
<td>RH (1) non condensing</td>
<td>20% to 70%</td>
<td>20% to 75%</td>
<td>20% to 75%</td>
<td>20% to 75%</td>
<td>20% to 75%</td>
<td>20% to 75%</td>
</tr>
<tr>
<td>Humidity gradient</td>
<td>±10%/h</td>
<td>±10%/h</td>
<td>±10%/h</td>
<td>±10%/h</td>
<td>±10%/h</td>
<td>±10%/h</td>
</tr>
</tbody>
</table>

STORAGE CONDITIONS

- Temperature: +10 °C [50 °F] to +40 °C [104 °F]
- RH (1) non condensing: 10% to 80%
- Pressure: 700 hPa to 1030 hPa
- Overall storage time shall be less than 6 months.

AIR RENEWAL

According to local standards.

NOTE

In case of using air conditioning systems that have a risk of water leakage it is recommended not to install it above electric equipment or to take measures to protect the equipment from dropping water.

HEAT DISSIPATION

<table>
<thead>
<tr>
<th>ROOM</th>
<th>DESCRIPTION</th>
<th>HEAT OUTPUT [kW]</th>
<th>HEAT OUTPUT [BTU/hr]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>STAND BY</td>
<td>MODERATE¹</td>
</tr>
<tr>
<td>Exam room</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gantry and table</td>
<td>0.41</td>
<td>0.55</td>
<td>0.89</td>
</tr>
<tr>
<td>Large Display Monitor (LDM) with 2 backups</td>
<td>0.10</td>
<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>Typical injector</td>
<td>0.09</td>
<td>0.09</td>
<td>0.09</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0.50</td>
<td>0.74</td>
<td>0.97</td>
</tr>
<tr>
<td>Control room</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL console and live monitor</td>
<td>0.10</td>
<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>AW Workstation</td>
<td>0.59</td>
<td>0.59</td>
<td>0.59</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0.69</td>
<td>0.78</td>
<td>0.79</td>
</tr>
<tr>
<td>Technical room</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-FRT Cabinet</td>
<td>0.70</td>
<td>1.02</td>
<td>1.53</td>
</tr>
<tr>
<td>PDU</td>
<td>0.50</td>
<td>0.50</td>
<td>0.50</td>
</tr>
<tr>
<td>Tube Chiller</td>
<td>2.53</td>
<td>4.49</td>
<td>5.49</td>
</tr>
<tr>
<td>Detector Conditioner</td>
<td>0.21</td>
<td>0.21</td>
<td>0.21</td>
</tr>
<tr>
<td>Fluoro UPS</td>
<td>2.14</td>
<td>2.14</td>
<td>2.14</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0.64</td>
<td>0.84</td>
<td>0.94</td>
</tr>
</tbody>
</table>

WARNING

The list contains only the principal components of the system and doesn't contain any non-GE supplied equipment.

¹ Moderate Use corresponds to 8 cases in 10 hours.
² Typical Use corresponds to 11 cases in 10 hours.
³ Maximum Use is maximum peak power during exam.
CONNECTIVITY REQUIREMENTS

Broadband Connections are necessary during the installation process and going forward to ensure full support from GE for the customer's system. Maximum performance and availability for the customer's system is maintained closely monitored during the lifetime of the system. Proactive and reactive maintenance is available utilizing the wide range of digital tools using the connectivity solutions listed below:

- Site-to-Site VPN/GE Solution
- Site-to-Site VPN/Customer Solution
- Connection through Dedicated Service Network
- Internet Access - connectivity for InSite 2.0

The requirements for these connectivity solutions are explained in the broadband solutions catalogue (separate document).

ELECTRICAL NOTES

1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.
   1.1. Aluminum or solid wires are not allowed.
   2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
   3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
   4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
   5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
   6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
   7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
   8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
   9. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.
   10. The maximum point to point distances illustrated on this drawing must not be exceeded.
   11. Physical connection of primary power to GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
   12. GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor.
- Conduit and duct runs shall have sweep radius bends
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
  1. Ductwork shall be metal with dividers and have removable, accessible covers.
  2. Ductwork shall be certified/rated for electrical power purposes.
  3. Ductwork shall be electrically and mechanically bonded together in an approved manner.
- PVC as a substitute must be used in accordance with all local and national codes.
  - All openings in access flooring are to be cut out and finished off with grommet material by the customers contractor.
  - General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
  - 10 foot pigtales at all junction points.
  - Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.
**ELECTRICAL LAYOUT ITEM LIST**

1. **450 x 450 x 150 [18" x 18" x 6"]** box below floor
2. **250 x 250 x 150 [10" x 10" x 6"]** box below floor
3. **300 x 300 x 150 [12" x 12" x 6"]** pull box above ceiling
4. **Cable management system (cms)**
5. **600 x 600 x 300 [24" x 24" x 12"]** box above ceiling
6. **450 x 450 x 150 [18" x 18" x 6"]** box above ceiling
7. **100 x 100 x 100 [4" x 4" x 4"]** flush junction box 300 [12"] below finished ceiling (xrb)
8. **150 x 150 x 150 [6" x 6" x 6"]** flush junction box in ceiling for 75 [3"]dia flexible pipe for water lines
9. **250 x 100 [10" x 3 1/2"]** surface wall duct with minimum 2 dividers
10. **450 x 100 [18" x 3 1/2"]** surface wall duct with minimum 2 dividers
11. **600 x 600 [24" x 24"]** Service access in ceiling
12. Area of conduit stubs for patient monitoring

**OUTLET LEGEND FOR GE EQUIPMENT**

- System emergency off (SEO), (recommended height 1.2m [48"] above floor)
- **X-Ray ON lamp (L1) - 24 V**
- System ON lamp (L) - 24 V (only if needed per local codes)
- Duplex hospital grade, dedicated wall outlet 120-v, single phase power
- Duplex hospital grade, dedicated ceiling outlet 120-v, single phase power
- Network outlet
- Duplex hospital grade, dedicated outlet 120-v emergency, single phase power, 15a
- 5-15R NEMA Receptacle, dedicated outlet 120-v, single phase power

**ADDITIONAL CONDUIT RUNS**

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Qty</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Management system</td>
<td>CFRT Cabinet</td>
<td>4</td>
<td>4 x 100</td>
</tr>
<tr>
<td>Table</td>
<td>CFRT Cabinet</td>
<td>2</td>
<td>4 x 100</td>
</tr>
<tr>
<td>Control Room</td>
<td>CFRT Cabinet</td>
<td>1</td>
<td>3 x 64</td>
</tr>
<tr>
<td>Box Chase</td>
<td>Table</td>
<td>1</td>
<td>3 x 64</td>
</tr>
<tr>
<td>Water line</td>
<td>Cable Management system</td>
<td>1</td>
<td>3 x 75</td>
</tr>
<tr>
<td>Warning light controller</td>
<td>Warning light</td>
<td>1</td>
<td>1 x 50</td>
</tr>
<tr>
<td>Warning light controller</td>
<td>Power distribution unit</td>
<td>1</td>
<td>1 x 50</td>
</tr>
<tr>
<td>Warning light controller</td>
<td>120-V 1 phase power</td>
<td>1</td>
<td>As Required</td>
</tr>
<tr>
<td>XR-Buzzer</td>
<td>CFRT Cabinet</td>
<td>1</td>
<td>6 x 19</td>
</tr>
<tr>
<td>XR-Buzzer</td>
<td>Control Room</td>
<td>1</td>
<td>2 x 64</td>
</tr>
<tr>
<td>Monitor</td>
<td>Control Room</td>
<td>1</td>
<td>2 x 64</td>
</tr>
<tr>
<td>Large Display Monitor</td>
<td>CFRT Cabinet</td>
<td>1</td>
<td>3 x 75</td>
</tr>
<tr>
<td>CRT Cabinet</td>
<td>Control Room</td>
<td>1</td>
<td>3 x 75</td>
</tr>
<tr>
<td>CRT Cabinet</td>
<td>Tram/PDM</td>
<td>2</td>
<td>3 x 75</td>
</tr>
<tr>
<td>Main Disconnect Panel</td>
<td>20/8/1 KVA UPS</td>
<td>2</td>
<td>As Required</td>
</tr>
<tr>
<td>System Interface Cabinet (POU)</td>
<td>Emergency off</td>
<td>1</td>
<td>1 x 50</td>
</tr>
<tr>
<td>System Interface Cabinet (POU)</td>
<td>Emergency off</td>
<td>1</td>
<td>1 x 50</td>
</tr>
<tr>
<td>Main Disconnect Panel</td>
<td>System Interface Cabinet (POU)</td>
<td>1</td>
<td>2 x 75</td>
</tr>
<tr>
<td>Main Disconnect Panel</td>
<td>480-V 3 phase power</td>
<td>1</td>
<td>As Required</td>
</tr>
<tr>
<td>Patient Monitoring</td>
<td>Monitor</td>
<td>1</td>
<td>3 x 75</td>
</tr>
<tr>
<td>Patient Monitoring</td>
<td>TRAM/PDM/AMP</td>
<td>2</td>
<td>3 x 75</td>
</tr>
</tbody>
</table>
CABLE MANAGEMENT

CABLEWAYS UNDER FLOOR SLAB

WALL DUCT

Opening through concrete floor

Removable coverplate

NOT TO SCALE
**POWER REQUIREMENTS**

- **POWER SUPPLY**: 3 PHASES+G 380/400/415/480 V ±10%
- **FREQUENCIES for 380/400/415V**: 50/60 Hz ± 3 Hz
- **FREQUENCY for 480V**: 60 Hz ± 3Hz
- **PEAK POWER CONSUMPTION**: 150 kVA
- **MOMENTARY POWER CONSUMPTION**: 100 kVA
- **LONG TIME POWER CONSUMPTION**: 18 kVA
- **MINIMUM PROTECTION**: 100 A (D curve or equivalent)
- **MAXIMUM LINE IMPEDANCE PHASE TO PHASE**:
  - 380 V: 0.09 Ω / 400 V: 0.096 Ω / 415 V: 0.102 Ω / 480 V: 0.12 Ω

**SUPPLY CHARACTERISTICS**
- Power supply should come into a Mains Disconnect Panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum line impedance phase to phase and rating of protection.

**GROUND SYSTEM**
- At least 35 mm² copper from main ground point to the MDP.
- The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non IGS cableways and to additional equipotential connections linking up all the conducting units in the rooms where IGS units are located.

**CABLES**
- Power and cable installation must comply with the distribution diagram.
- MDP to PDU cable shall be copper cable and cable insulation temperature shall be 90°C.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signalling and remote control (SEO, L...) will go to PDU with a pigtail length of 2.0 m, and will be connected during installation.
- Each conductor will be identified and isolated (screw connector).

**CABLEWAYS**
- The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:
  - Protecting cables against wind (Cableways should be waterproof),
  - Protecting cables against abnormal temperatures (Proximity to heating pipes or ducts),
  - Protecting cables against temperature shocks,
  - Replacing cables (Cableways should be large enough for cables to be replaced),
  - Only GE cables are running inside cableways.
- Metal cableways should be grounded.

**LOTOD DEVICES**
- The MDP shall provide means of disconnecting the mains power from the system, with LOTO capability to ensure safe service operation. It can be done by the input breaker if it has disconnecting capability, or by a separate disconnection device.
- LOTO device is installed on the MDP input breaker or on the disconnecting device, there shall be no voltage at the output of the MDP.
**INTERCONNECTIONS**

**EXAM ROOM**
- GROUP 1: 24 m² (78.74 ft²)
- 6 X-ray monitors
- 6 KVA UPS (Optional)
- CMS Cables: 24 m (78.74 ft)

**CONTROL ROOM**
- CMS Cables: 24 m (78.74 ft)
- Handswitch support
- MDP (option)
- Power Distribution Unit/System Interface Cabinet

**POWER REQUIREMENTS (LIGHT SIGNALING)**

### FOR ELECTRICAL BOX LIGHT SIGNALING

<table>
<thead>
<tr>
<th>Power Demand</th>
<th>10 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>Single Phase 100V - 240V ± 10%</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz ± 3Hz</td>
</tr>
</tbody>
</table>

### POWER DISTRIBUTION (LIGHT SIGNALING)

- **L** System ON Light - Located near access doors
- **L1** X-Ray ON Light - 24 V, Located near access doors and inside the exam room

**NOTES:**
1. Three dry contacts: “System ON”, “X-Ray ON” and Room lights control are released by PDU. Max. voltage = 24 V
2. Cable with 2m [6.6ft] extra length on the floor behind the back of PDU
3. Location and/or quantity: refer to layout

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>GAUGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;6 m [20 ft]</td>
<td>1x2 AWG</td>
</tr>
<tr>
<td>&lt;10.5 m [34 ft]</td>
<td>1x2 + 1x4 AWG</td>
</tr>
<tr>
<td>&lt;11.3 m [37 ft]</td>
<td>1x2 + 1x5 AWG</td>
</tr>
<tr>
<td>&lt;12.3 m [40 ft]</td>
<td>1x2 + 1x4 AWG</td>
</tr>
<tr>
<td>&lt;13.6 m [45 ft]</td>
<td>1x2 + 1x3 AWG</td>
</tr>
<tr>
<td>&lt;15.1 m [50 ft]</td>
<td>2x2 AWG</td>
</tr>
</tbody>
</table>

**Notes:**
- A 6 m Ethernet cable between the C-FRT Cabinet and the Fluoro UPS is provided with the system. If a longer cable is needed, it shall be provided by the hospital; it shall be Cat5 minimum.
- (B) A 12 m EPO cable between the PDU and the Fluoro UPS is provided with the system. If a longer cable is needed, it shall be provided by the hospital, its minimum gauge shall be 1 mm² [17 AWG].
- (C) The cable between the MDP and the PDU shall be in accordance with the table below, and shall be separate from the power cables.
**DETAILED SCHEMATICS ELECTRICAL BOX (LIGHT SIGNALING)**

**POWER SUPPLY 100-240V SINGLE PHASE**

**CB1**

**CB2**

**TR1 100-240V 24V**

**SYMBOLS LEGEND**

- Circuit breaker
- Relay coil
- Relay contact - normally open (de-energized state)
- Relay contact - normally closed (de-energized state)
- Control power transformer
- Indication light
- Cable/conductor termination
- External lock-out/tag-out capability
- Ground

**IG**: Lockable interruptor
**CB1/CB2**: Circuit breaker
**R1/R2/R3**: 24 VAC 50/60 Hz auxiliary relay
**TR1**: Transformer

**H1**: System ON lamp voltage control
**L**: System ON Lamp
**L1**: X-Ray ON Lamp

**PDU**: Control power transformer

**TERMINAL**

<table>
<thead>
<tr>
<th>TERMINAL</th>
<th>SYSTEM ON</th>
<th>X-RAY ON</th>
<th>ROOM LIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

**H1**: White 24VAC

**A1, A2, A3**: Relay contact

**J12, J15, J6, J10**: External lock-out/tag-out capability