GE HealthCare

Definium Pace Select

Preinstallation Manual

5649146-8EN
Revision 7
US English

LEGAL NOTES

TRADEMARKS

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Contact Information

Definium Pace Select

The Systems can be sold by the below names and be manufactured by the below manufactures.

Model Name	Definium Pace Select
Manufacturer (*)	GE Hualun Medical Systems Co., Ltd.
Manufacturer address	No.1, Yong Chang North Road, Beijing Economic Technological Development Zone, 100176 Beijing P.R. China
Manufacturing site	GE Hualun Medical Systems Co., Ltd.
Manufacturing site address	No.1, Yong Chang North Road, Beijing Economic Technological Development Zone, 100176 Beijing P.R. China

Language Policy

DOC0371395 - Global Language Procedure

PARALAJMËRIM (SQ-AL)	Ky manual është i disponueshëm në disa gjuhë. • Nëse një ofrues shërbimi klientësh kërkon një gjuhë të ndryshme nga ato që mundësohen në Portalin e dokumentacionit të klientit, është përgjegjësia e klientit që të ofrojë shërbime përkthimi. • Mos u përpiqni të kryeni shërbime në pajisje, pa lexuar dhe kuptuar paraprakisht manualin e shërbimit. • Mosrespektimi i këtij paralajmërimi mund të çojë në lëndim të ofruesit të shërbimit, operatorit ose pacientit si pasojë e goditjes elektrike, mekanike ose një rreziku tjetër.
تحذير (AR-SA)	هذا الدليل متوفر بعدة لغات • إذا كان مقدم الخدمة التابع للعميل يطلب لغة غير تلك المتوفرة في بوابة توثيق العميل، فإنه يقع على عاتق العميل مسؤولية تقديم خدمات الترجمة • لا تحاول صيانة الجهاز ما لم تتم استشارة دليل الخدمة هذا وفهمه • قد يؤدي عدم مراعاة هذا التحذير إلى إصابة مقدم الخدمة أو المشغل أو المريض من جراء الصدمات الكهربائية أو المخاطر الميكانيكية أو غيرها من المخاطر
ПРЕДУПРЕЖДЕНИЕ (BG)	Това ръководство е налично на няколко езика. • Ако доставчикът на услуги на даден клиент изисква език, който е различен от осигурените в портала с документация за клиенти, отговорност на клиента е да предостави преводачески услуги. • Не се опитвайте да обслужвате оборудването, освен ако не сте се консултирали с това сервизно ръководство и сте го разбрали. • Несъблюдаването на това предупреждение може да доведе до нараняване на предоставящия услугите, оператора или пациента вследствие на токов удар, механична или други опасности.
警告 (ZH-CN)	本手册有多种语言版本。 • 如果客户的服务提供商要求使用 Customer Documentation Portal（客户文档门户）未提供的其他语言，则客户有责任提供相应的翻译服务。 • 请勿尝试检修设备，除非已明确参考并理解本检修手册。 • 不遵循此警告可能会导致检修服务提供者、操作员或患者受到触电、机械或其他危害的损伤。

警告 (ZH-HK)	本手冊備有多個語言版本。 • 若客戶的服務提供者所需語言版本不在 Customer Documentation Portal（客戶文件入口網站）所列語言之中，客戶需自行負責提供翻譯服務。 • 除非已查閱並理解本檢修手冊，否則，請勿嘗試檢修設備。 • 不遵循此警告可能會導致服務提供者、操作員或患者因為觸電、機械或其他危險而受傷。
警告 (ZH-TW)	本手冊備有多個語言版本。 • 若客戶的服務提供者所需語言版本不在 Customer Documentation Portal（客戶文件入口網站）所列語言之中，客戶需自行負責提供翻譯服務。 • 除非已查閱並理解本檢修手冊，否則，請勿嘗試檢修設備。 • 不遵循此警告可能會導致服務提供者、操作員或患者因為觸電、機械或其他危險而受傷。
UPOZORENJE (HR)	Ovaj je priručnik dostupan na nekoliko jezika. • Ako serviser klijenta zahtijeva jezik koji nije jedan od jezika dostupnih na portalu s korisničkom dokumentacijom (Customer Documentation Portal), odgovornost je klijenta pružiti uslugu prevođenja. • Nemojte pokušavati servisirati opremu ako niste proučili i razumjeli ovaj servisni priručnik. • Nepoštovanje ovog upozorenja može izazvati ozljede servisera, rukovatelja ili pacijenta kao posljedicu strujnog udara, mehaničkih ili drugih opasnosti.
VÝSTRAHA (CS)	Tato příručka je k dispozici v několika jazycích. • Pokud zákazníkův poskytovatel služeb vyžaduje jiný jazyk než jazyky, které jsou k dispozici na portálu s uživatelskou dokumentací, je odpovědností zákazníka poskytnout překladatelské služby. • Nepokoušejte se provádět servis zařízení, aniž byste prostudovali tuto servisní příručku a porozuměli jí. • Nedodržení tohoto varování může vést ke zranění poskytovatele služeb, obsluhy nebo pacienta, způsobenému úrazem elektrickým proudem či mechanickým nebo jiným nebezpečím.
ADVARSEL (DA)	Denne vejledning fås på flere sprog. • Hvis en kundes tjenesteudbyder kræver et andet sprog end dem, der er til rådighed i Kundedokumentationsportalen, er det kundens ansvar at levere oversættelsestjenester. • Undgå at forsøge at udføre service på udstyret, medmindre du har læst og forstået denne servicevejledning. • Hvis du undlader at overholde denne advarsel, kan det føre til skader på servicemedarbejderen, operatøren eller patienten på grund af elektrisk stød, mekaniske eller andre farer.
WAARSCHUWING (NL)	Deze handleiding is in verschillende talen beschikbaar. • Als de serviceprovider van een klant een andere taal vereist dan de talen die beschikbaar worden gesteld in het Customer Documentation Portal (Klantdocumentatieportaal), is het de verantwoordelijkheid van de klant om vertaalservices te leveren. • Probeer geen service op de apparatuur uit te voeren zonder de servicehandleiding te hebben gelezen en begrepen. • Het negeren van deze waarschuwing kan leiden tot letsel bij de serviceprovider, de operator of de patiënt door elektrische schokken, mechanische of andere gevaren.
WARNING (EN)	This manual is available in several languages. • If a customer's service provider requires a language other than those provided in the Customer Documentation Portal, it is the customer's responsibility to provide translation services. • Do not attempt to service the equipment unless this service manual has been consulted and is understood. • Failure to heed this warning may result in injury to the service provider, operator or patient from electric shock, mechanical or other hazards.

HOIATUS (ET)	Käesolev juhend on saadaval mitmes keeles. • Kui kliendi teenusepakkuja vajab juhendit mõnes muus keeles, mida pole kliendidokumentatsiooni portaalis, on kliendi kohustuseks tõlketeenuste osutamine. • Ärge hakake seda seadet hooldama enne, kui olete käesolevat hooldusjuhendit lugenud ja selle sisu mõistnud. • Selle hoiatuse eiramine võib põhjustada hooldusteenuse pakkujale, operaatorile või patsiendile elektrilöögist, mehhaanilistest või muudest ohtudest tulenevaid vigastusi.
VAROITUS (FI)	Tämä opas on saatavilla useilla kielillä. • Jos asiakkaan palveluntarjoaja edellyttää muita kuin asiakkaan asiakirjaportaalissa saatavilla olevia kieliä, käännöspalveluiden tarjoaminen on asiakkaan vastuulla. • Lue huolto-opas huolellisesti ennen laitteen huoltotoimenpiteiden suorittamista. • Tämän varoituksen huomiotta jättäminen voi johtaa huollon suorittajan, laitteen käyttäjän tai potilaan loukkaantumiseen sähköiskun, mekaanisen vaaran tai muun vaaran vuoksi.
ATTENTION (FR)	Ce manuel est disponible en plusieurs langues. • Si le prestataire de services d'un client nécessite que le manuel soit rédigé dans une autre langue que celles fournies sur le Portail de Documentation Client, il incombe au client de le faire traduire. • Ne pas essayer d’assurer la maintenance de l’équipement sans avoir au préalable consulté et compris les informations contenues dans ce manuel. • Le non-respect de cet avertissement peut entraîner chez le technicien, l’opérateur ou le patient des blessures dues à des dangers électriques, mécaniques ou autres.
WARNUNG (DE)	Dieses Handbuch ist in mehreren Sprachen erhältlich. • Wenn ein Dienstleister des Kunden dieses in einer anderen Sprache als der im Kundendokumentationsportal verfügbaren benötigt, liegt es in der Verantwortung des Kunden, Übersetzungsdienstleistungen zu erbringen. • Wartungsarbeiten am Gerät dürfen nur durchgeführt werden, nachdem dieses Wartungshandbuch gelesen und verstanden wurde. • Andernfalls besteht Verletzungsgefahr für den Dienstleister, Bediener oder Patienten durch Stromschlag, mechanische Gefahren oder andere Gefahren.
ΠΡΟΕΙΔΟΠΟΙΗΣΗ (EL)	Αυτό το εγχειρίδιο διατίθεται σε διάφορες γλώσσες. • Εάν ο πάροχος υπηρεσιών συντήρησης ενός πελάτη χρειάζεται διαφορετική γλώσσα από αυτές που διατίθενται στο Customer Documentation Portal (Πύλη τεκμηριώσεων πελάτη), ο πελάτης είναι υπεύθυνος για την παροχή υπηρεσιών μετάφρασης. • Μην επιχειρήσετε να εκτελέσετε συντήρηση του εξοπλισμού, εάν δεν έχετε διαβάσει και κατανοήσει το παρόν εγχειρίδιο συντήρησης. • Εάν δεν τηρήσετε αυτήν την προειδοποίηση, μπορεί να προκληθεί τραυματισμός του παρόχου υπηρεσιών συντήρησης, του χειριστή ή του ασθενούς λόγω ηλεκτροπληξίας, μηχανικής βλάβης ή άλλου κινδύνου.
אזהרה (HE)	מדריך זה זמין במספר שפות • אם ספק שירות של לקוח זקוק לשפה שאינה מסופקת ב-Customer Documentation Portal (פורטל תיעוד באחריות הלקוח לספק את שירותי התרגום, ללקוחות) • אסור לנסות להעניק שירות לציוד לפני עיון במדריך שירות זה והבנת התוכן שלו • פעולה שלא בהתאם לאזהרה זו עלולה לגרום לפציעה של ספק השירות, המפעיל או המטופל כתוצאה מהתחשמלות, סיכונים מכניים או סיכונים אחרים

FIGYELMEZ-TETÉS (HU)	Ez a kézikönyv több nyelven is rendelkezésre áll. • Ha az ügyfél szervizszolgáltatója azoktól eltérő nyelvű kézikönyvet szeretne, mint amelyeket az Ügyféldokumentációs portálon biztosítunk, akkor az ügyfél feladata, hogy gondoskodjon a megfelelő fordításról. • Ne próbálkozzon a berendezés szervizelésével anélkül, hogy a jelen szervizkézikönyvet elolvasta és megértette volna. • Ennek a figyelmeztetésnek a figyelmen kívül hagyása áramütés, mechanikai vagy egyéb veszélyek következtében a szervizszolgáltató, a kezelő vagy a páciens sérülését okozhatja.
AÐVÖRUN (IS)	Þessi handbók er fáanleg á mörgum tungumálum. • Ef þjónustuaðili viðskiptavinar þarfnast annars tungumáls en þessara tungumála er það á ábyrgð viðskiptavinarins að veita þýðingarþjónustu. • Ekki reyna að þjónusta búnaðinn fyrr en búið er að lesa og skilja þessa þjónustuhandbók. • Sé ekki farið eftir þessari viðvörun getur það valdið meiðslum á þjónustuaðila, notanda eða sjúklingi af völdum raflosts, vélrænna áverka eða annarar hættu.
PERINGATAN (IN)	Manual ini tersedia dalam beberapa bahasa. • Jika penyedia layanan pelanggan membutuhkan bahasa selain dari yang disediakan dalam Portal Dokumentasi Pelanggan, merupakan tanggung jawab pelanggan untuk menyediakan layanan penerjemahan. • Jangan berupaya untuk melakukan servis pada peralatan sebelum menyimak manual servis dan memahami isinya. • Jika peringatan ini tidak ditaati, ini dapat menyebabkan cedera penyedia layanan, operator, atau pasien, akibat sengatan listrik, bahaya mekanis, atau bahaya lainnya.
AVVERTENZA (IT)	Il presente manuale è disponibile in varie lingue. • Qualora un fornitore di servizi del cliente richieda una lingua diversa da quelle fornite nel Portale con la documentazione per il cliente, sarà responsabilità del cliente fornire il servizio di traduzione corrispondente. • Non tentare di riparare l'apparecchiatura se non si è prima consultato e compreso il presente manuale di servizio. • Il mancato rispetto di questa avvertenza può provocare lesioni per il fornitore dei servizi, per l'operatore o per il paziente, a causa di scosse elettriche, meccaniche o altri pericoli.
警告 (JA)	本マニュアルは多言語で提供されています。 • お客様のサービスプロバイダが、お客様ドキュメントポータルページで使用されていない言語を必要とする場合は、お客様の責任で翻訳サービスを提供してください。 • 機器の保守を行う場合は、必ず本サービスマニュアルを読み理解した上で行ってください。 • この警告に従わない場合は、サービスプロバイダー、オペレータ、または患者が、感電、機械的異常、またはその他の有害要因によって負傷する恐れがあります。
경고 (KO)	이 설명서는 여러 언어로 제공됩니다. • 고객의 서비스 제공자가 고객 문서 포털에 제공된 언어가 아닌 다른 언어를 요구하는 경우 번역 서비스를 제공하는 것은 고객의 책임입니다. • 이 서비스 설명서를 참고했고 이해하지 않는 한은 해당 장비를 수리하려고 시도하지 마십시오. • 이 경고를 지키지 않으면 감전, 기계상의 위험 또는 다른 위험으로부터 서비스 제공자, 사용자 또는 환자가 다칠 수 있습니다.
BRĪDINĀJUMS (LV)	Šī rokasgrāmata ir pieejama vairākās valodās. • Ja klientu apkalpošanas speciālistam ir nepieciešama cita valoda, kas nav piedāvāta klientu dokumentācijas portālā, klienta pienākums ir nodrošināt tulkošanas pakalpojumus. • Nemēģiniet veikt aprīkojuma apkopi, kamēr nav izlasīta un izprasta apkopes rokasgrāmata. • Ja šis brīdinājums netiek ņemts vērā, pakalpojumu sniedzējs, operators vai pacients var tikt savainots elektriskās strāvas trieciena, mehāniskas vai citas bīstamības rezultātā.

ĮSPĖJIMAS (LT)	Šis vadovas yra išverstas į keletą kalbų. • Jei kliento paslaugų teikėjui reikalingas vertimas į kitą kalbą, kurios nėra kliento dokumentacijos portale, už vertimo paslaugų suteikimą atsako klientas. • Neatlikite įrangos techninės priežiūros, kol neperžiūrėjote ir neišsiaiškinote šio techninės priežiūros vadovo. • Nepaisant šio įspėjimo dėl elektros smūgio, mechaninio arba kitokio pavojaus gali būti sužalotas paslaugų teikėjas, operatorius arba pacientas.
TWISSIJA (MT)	Dan il-manwal huwa disponibbli f'diversi lingwi. • Jekk fornitur tas-servizz ta' klijent ikun jeħtieġ lingwa għajr dawk ipprovduti fil-Portal tad-Dokumentazzjoni tal-Klijent, hija r-responsabbiltà tal-klijent li jipprovdi servizzi ta' traduzzjoni. • Tippruvax tagħmel service fuq it-tagħmir sakemm ma jkunx ġie kkonsultat u mifhum dan il-manwal għas-service. • Jekk wieħed jonqos milli josserva din it-twissija, dan jista' jwassal f'korriment lill-fornitur tas-servizz, lill-operatur jew lill-pazjent minn xokk elettriku, mekkaniku, jew perikli oħra.
ADVARSEL (NO)	Denne håndboken er tilgjengelig på flere språk. • Hvis en kundes tjenesteleverandør krever et annet språk enn de som finnes i dokumentasjonsportalen for kunder, er det kundens ansvar å levere en oversettelsestjeneste. • Ikke prøv å utfør service på utstyret med mindre man har konsultert og forstått servicehåndboken. • Om denne advarselen ikke følges kan det føre til skade på tjenesteleverandør, operatør eller pasient fra elektrisk støt, mekanisk eller annen fare.
OSTRZEŻENIE (PL)	Niniejszy podręcznik jest dostępny w kilku językach. • Jeżeli serwisant klienta wymaga języka, który nie został udostępniony w portalu dokumentacji klienta, obowiązkiem klienta jest zapewnienie usług tłumaczeniowych. • Nie podejmować prób serwisowania urządzenia bez uprzedniego zapoznania się z niniejszym podręcznikiem serwisowym i zrozumienia jego treści. • Nieprzestrzeganie tego ostrzeżenia może spowodować obrażenia u serwisanta, operatora lub pacjenta, spowodowane porażeniem prądem, zagrożeniami mechanicznymi lub innymi.
ATENÇÃO (PT-BR)	Este manual está disponível em vários idiomas. • Se o prestador de serviços de um cliente necessitar de um idioma diferente dos fornecidos no Portal da Documentação do Cliente, o fornecimento dos serviços de tradução é de responsabilidade do cliente. • Não tente realizar manutenção do equipamento a menos que o manual de serviço tenha sido consultado e seja entendido. • O não cumprimento deste aviso resultará em lesões ao provedor de serviço, operador ou paciente de choque elétrico, mecânico ou outros riscos.
ATENÇÃO (PT-PT)	Este manual está disponível em vários idiomas. • Se o fornecedor de serviços de um cliente necessitar de um idioma diferente dos fornecidos no Portal de Documentação do Cliente, é da responsabilidade do cliente assegurar os serviços de tradução. • Não experimente reparar o equipamento sem primeiro consultar, e compreender, o presente manual de assistência. • O incumprimento deste aviso pode resultar em ferimentos para o técnico de reparação, o operador ou o paciente decorrentes de perigos de eletrocussão, mecânicos ou outros.

ATENŢIE (RO)	Acest manual este disponibil în mai multe limbi. • Dacă furnizorul de servicii al unui client necesită o limbă diferită de cele furnizate în Customer Documentation Portal (Portalul cu documentaţie pentru clienţi), este responsabilitatea clientului să furnizeze servicii de traducere. • Nu încercaţi să efectuaţi întreţinerea echipamentului decât dacă aţi consultat şi aţi înţeles acest manual de service. • Nerespectarea acestei avertizări poate duce la rănirea furnizorului de servicii, a operatorului sau a pacientului din cauza şocurilor electrice, mecanice sau a altor pericole.
ПРЕДУПРЕЖДЕНИЕ (RU)	Это руководство доступно на нескольких языках. • Если поставщику услуг заказчика требуется языковая версия, отличная от предложенных на портале документации для заказчиков, перевод руководства на необходимый язык осуществляется стороной заказчика. • Не начинайте эксплуатацию оборудования без предварительного надлежащего ознакомления с этим руководством. • Если вы проигнорируете это предупреждение, поставщик услуг, оператор или пациент могут получить механические травмы, травмы вследствие поражения электрическим током или другие увечья.
UPOZORENJE (SR)	Ovaj priručnik je dostupan na nekoliko jezika. • Ako korisnikov serviser zahteva neki drugi jezik osim onih koji su dostupni na portalu sa korisničkom dokumentacijom (Customer Documentation Portal), klijent mora da obezbedi prevod. • Nemojte pokušavati da servisirate opremu ako niste proučili i razumeli ovaj priručnik za servisiranje. • Nepoštovanje ovog upozorenja može da izazove povrede servisera, operatera ili pacijenta kao posledicu strujnog udara, mehaničkih ili drugih opasnosti.
UPOZORNENIE (SK)	Táto príručka je k dispozícii v niekoľkých jazykoch. • Ak poskytovateľ služieb daného zákazníka požaduje jazyk odlišný od jazykov dostupných na portáli s dokumentáciou pre zákazníkov, za prekladateľské služby zodpovedá zákazník. • Nepokúšajte sa vykonávať servis na zariadení, pokiaľ ste si neprečítali a nepochopili pokyny v servisnej príručke. • Nedodržanie tohto varovania môže byť príčinou úrazu poskytovateľa servisu, obsluhy alebo pacienta v dôsledku zásahu elektrickým prúdom alebo v dôsledku mechanických alebo iných nebezpečenstiev.
OPOZORILO (SL)	Ta priročnik je na voljo v več jezikih. • Če ponudnik storitev stranke potrebuje priročnik v jeziku, ki ni na voljo na portalu z dokumentacijo stranke, mora stranka zagotoviti prevod. • Opreme ne poskušajte servisirati, če niste prebrali in razumeli tega servisnega priročnika. • V primeru neupoštevanja tega opozorila lahko pride do telesnih poškodb ponudnika storitev, upravljavca ali pacienta zaradi električnega udara, mehanskih ali drugih nevarnosti.
ADVERTENCIA (ES)	Este manual se encuentra disponible en varios idiomas. • Si el proveedor de servicios de un cliente requiere un idioma distinto de los proporcionados en el Customer Documentation Portal (Portal de documentación para clientes), es responsabilidad del cliente proporcionar los servicios de traducción. • No intente realizar el mantenimiento del sistema a menos que haya consultado y comprendido este manual de servicio. • El incumplimiento de esta advertencia puede causar lesiones al suministrador de servicios, el operador o el paciente debido a descarga eléctrica, mecánica u otros riesgos.

VARNING (SV)	Denna manual är tillgänglig på flera språk. • Om en kunds tjänsteleverantör behöver ett annat språk än de som tillgängliggjorts på portalen för kunddokumentation är det kundens ansvar att erbjuda översättningstjänster. • Försök inte att reparera utrustningen utan att först rådfråga och förstå denna servicehandbok. • Om denna varning inte beaktas kan det leda till skada för tjänsteleverantör, operatör eller patient genom elektrisk stöt, mekaniska eller andra faror.
DİKKAT (TR)	Bu kılavuz birden fazla dilde sunulmaktadır. • Bir müşterinin servis sağlayıcısı Müşteri Belgeleri Portalı'nda sağlananlardan farklı bir dil talep ederse çeviri hizmeti sağlamak müşterinin sorumluluğundadır. • Bu servis kılavuzuna başvurmadan ve içeriğini anlamadan ekipman üzerinde servis işlemi yapmayı denemeyin. • Bu uyarıya uyulmaması; elektrik çarpması, mekanik tehlikeler veya başka tehlikelerden ötürü servis sağlayıcı, operatör veya hastanın yaralanmasıyla sonuçlanabilir.
ПОПЕРЕДЖЕННЯ (UK)	Цей посібник доступний кількома мовами. • Якщо постачальник послуг замовника використовує мову, яку не вказано на порталі з документацією для замовників, послуги з перекладу має забезпечити замовник. • Не починайте роботу з обладнанням без попереднього належного ознайомлення з посібником із використання. • Якщо ви проігноруєте це попередження, постачальник послуг, оператор або пацієнт можуть зазнати механічних травм, ураження електричним струмом або інших тілесних ушкоджень.
CẢNH BAO (VI)	Tài liệu hướng dẫn này có sẵn ở một số ngôn ngữ. • Nếu nhà cung cấp dịch vụ của khách hàng yêu cầu ngôn ngữ khác với ngôn ngữ được cung cấp trong Cổng Thông Tin Tài Liệu Khách Hàng, khách hàng có trách nhiệm cung cấp dịch vụ dịch thuật. • Không cố bảo dưỡng thiết bị trừ khi đã tham khảo và hiểu rõ hướng dẫn sử dụng này. • Việc không chú ý đến cảnh báo này có thể dẫn đến thương tích cho nhà cung cấp dịch vụ, người vận hành hoặc bệnh nhân do điện giật, nguy hiểm cơ học hoặc các mối nguy hiểm khác.

Revision History

Rev	Date	Reason For Change
1	Jun 05, 2022	Initial Release
2	Jun 19, 2023	Second Release. Update feature description.
3	Sep 25, 2023	Third Release. • Update minimum door size requirements. 1.3.1 Door Size Requirements on page 25 • Update table weight. The table is 5 kg heavier due to the introduction of dolly. • Update recommended width in room layout. ◦ 2.3.5.1 Typical Room Layout on page 55 ◦ 2.3.5.2 Minimum Room Layout with tube arm 180 degree rotation on page 58 • Update information of UPS. 2.2.6 UPS on page 51 • Update concrete strength. 2.2.1 Dimensions on page 40
4	Jun 18, 2024	Forth Release. • Update recommended width in room layout. ◦ 2.3.5.1 Typical Room Layout on page 55 ◦ 2.3.5.2 Minimum Room Layout with tube arm 180 degree rotation on page 58 • Add the distance between table base and wall stand bottom, which would help engineers locate the wall stand quickly. ◦ 2.3.5.1 Typical Room Layout on page 55 ◦ 2.3.5.2 Minimum Room Layout with tube arm 180 degree rotation on page 58 ◦ 2.3.5.3 Minimum Room Layout without tube arm 180 degree rotation on page 61 • Add available length of cable bundles between table, wall stand and cabinet. ◦ 7.2.2 Table Cable on page 93 ◦ 7.2.3 WS Cable on page 93 • Update some detail dimensions of Table. ◦ 2.2.3 Integrated Table on page 41 ◦ 2.1.3.3.4 Table on page 31
5	Aug 15, 2024	Fifth Release. • Remove lifting tool information in 2.1.3.4 Ceiling Requirements on page 35. • Update concrete strength description in 2.1.3.3.2 Floor Requirements When Using Provided Floor Anchors on page 29.
6	Nov 11, 2024	Sixth Release. Update recommended ceiling height in • 2.1.3.4 Ceiling Requirements on page 35 • 2.3.5.1 Typical Room Layout on page 55 • 2.3.5.2 Minimum Room Layout with tube arm 180 degree rotation on page 58 • 2.3.5.3 Minimum Room Layout without tube arm 180 degree rotation on page 61

Rev	Date	Reason For Change
7	Apr 15， 2025	Seventh Release. • Update description of 5.2.1 Generator Electrical Requirements on page 69. • Update door width in 1.3.1 Door Size Requirements on page 25. • Update the concrete strength to C30 or equivalent, in 2.1.3.3.2 Floor Requirements When Using Provided Floor Anchors on page 29. • Update the left insertion Wall Stand tray dimensions into room layout drawings. ◦ 2.3.5.1 Typical Room Layout on page 55 ◦ 2.3.5.2 Minimum Room Layout with tube arm 180 degree rotation on page 58 ◦ 2.3.5.3 Minimum Room Layout without tube arm 180 degree rotation on page 61 • Update shipping dimensions and weights as Gas Spring and Table Flip Dolly phase in. For details, see 1.3.3 Shipping Dimensions and Weights on page 25 and 2.2.3 Integrated Table on page 41. • Update Table weight and Tubestand weight in 2.2.7 Weights and Recommended Mounting Methods on page 51. • Add 2.1.3.3.1 Floor Levelness Specifications on page 29. • Add specific requirements for service access clearance in Table Flip Dolly Scenario. For detail, see 2.3.1 Required Service Access Clearance on page 52.

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Preface

Standardized conventions for representing information is a uniform way of communicating information to a reader in a consistent manner. Conventions are used so that the reader can easily recognize the actions or decisions that must be made. There are a number of character and paragraph styles used in this publication to accomplish this task. Please become familiar with them before proceeding forward.

It is important that you read and understand hazard statements, and not just ignore them.

Safety & Hazard Information

Proper product safety labeling allows a person to safely use or service a product. The format and style for safety communications reflected in this publication represents the harmonization of IEC/ISO 3864 and ANSI Z535 standards.

Within this publication, different paragraph and character styles are used to indicate potential hazards. Paragraph prefixes, such as hazard, caution, danger and warning, are used to identify important safety information. Text (Hazard) styles are applied to the paragraph contents that are applicable to each specific safety statement.

Repair parts weighting more than 35 lbs or require more than 35lbs of mechanical effort shall have written procedures defining lifting assistance tools/features or document that it is a two or more person operation.

Hazard Messages

Any action that will, or could potentially cause personal injury will be preceded by the safety alert symbol and an appropriate signal word. The safety alert symbol is the triangle with an exclamation mark within it. It is always used next to the signal word to indicate the severity of the hazard. Together, they are used to indicate a hazard exists.

Signal words describe the severity of possible human injuries that may be encountered. The alert symbol and signal word are placed immediately before any paragraph they affect. Safety information includes:

1. Signal Word - The seriousness level of the hazard.
2. Symbol or Pictorial - The consequence of interaction with the hazard.
3. Word Message:
    3.1. The nature of the hazard (i.e. the type of hazard).
    3.2. How to avoid the hazard.

    The safety alert symbol is not used when an action can only cause equipment damage.

Text Format of Signal Words

DANGER: the most severe label, indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

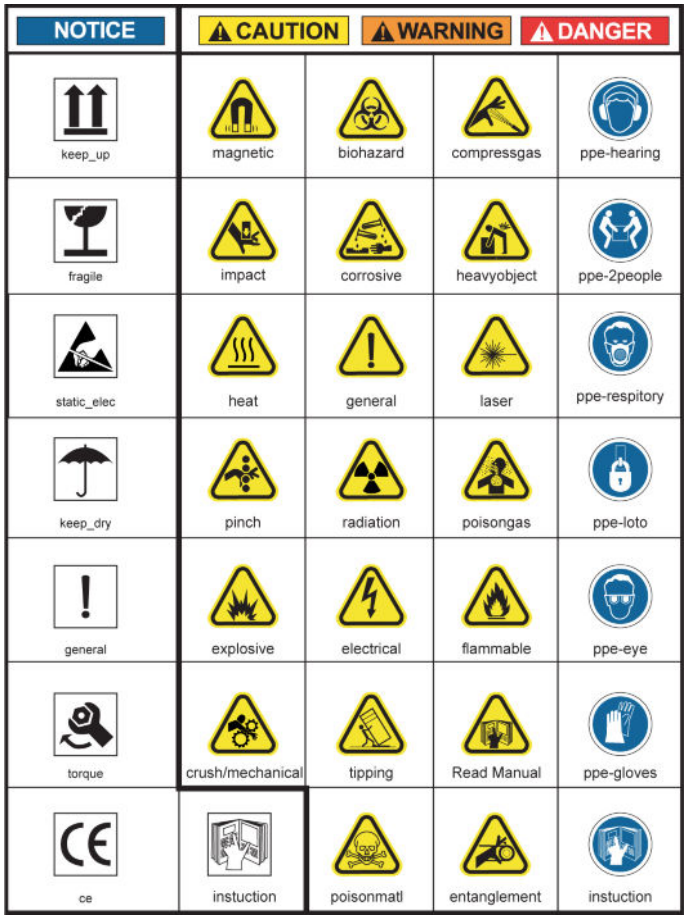
WARNING: indicates a hazard with a medium level of risk which, if not avoided could result in death or serious injury.

CAUTION: indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

NOTICE: indicates information considered important, but not hazard-related (no risk of injury, only a risk to the equipment).

Symbols and Pictorials Used

The following Symbols and Pictorials may be used in this publication. These graphical icons (symbols) may be used to make you aware of specific types of hazards that could possibly cause harm.



Equipment Classifications

The following equipment classifications are applicable to the product:

- Equipment classification with respect to protection from electric shock: Class I
- Degree of protection from electric shock: Type B
- Degree of protection against ingress of liquids: Not classified
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with nitrous oxide
- Mode of operation: Continuous operation with intermittent loading

Publication Conventions

Please view the latest version when using this manual.

General Paragraph and Character Styles

Prefixes are used to highlight important non-safety related information. Paragraph prefixes (such as Purpose, Example, Comment or Note) are used to identify important but non-safety related information. Text styles are also applied to text within each paragraph modified by the specific prefix.

EXAMPLES OF PREFIXES USED FOR GENERAL INFORMATION:

Purpose:

Introduces and provides meaning as to the information contained within the chapter, section or subsection (such as used at the beginning this chapter, for example).

NOTE
Conveys information that should be considered important to the reader.

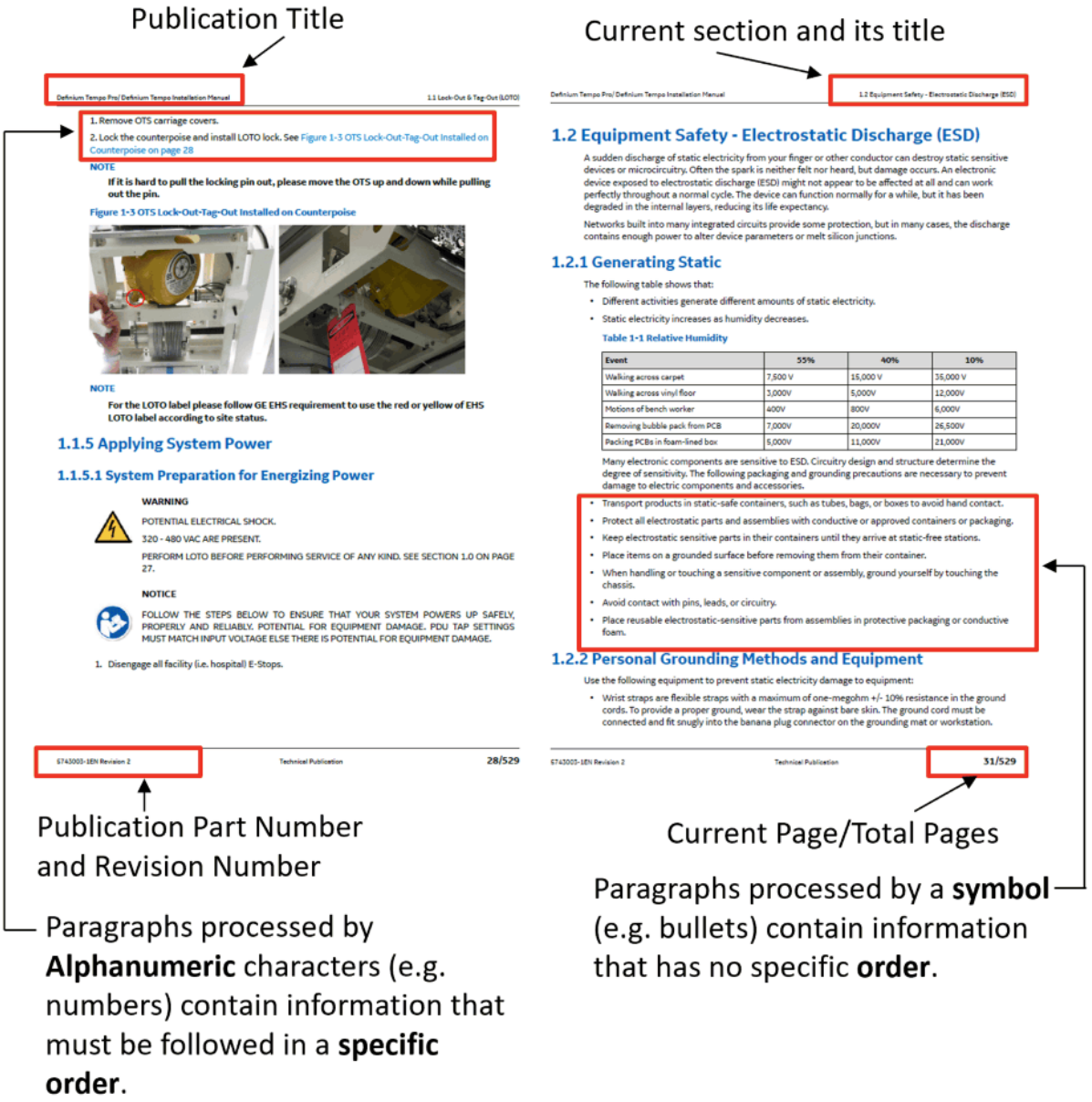
Example:

Used to make the reader aware that the paragraph(s) that follow are examples of information possibly stated previously.

Comment:

Represents "additional" information that may or may not be relevant to your situation.

Page Layout



Headers and footers in this publication are designed to allow you to quickly identify your location. The document part number and revision number appear in every footers on every page. Headers indicate the Publication Title and Current section with its title. Footers also show the current page number with total pages number.

Computer Screen Output/Input Text Character Styles

Within this publication, mono-spaced character styles (fonts) are used to indicate computer text that is either screen input or output. Mono-spaced fonts, such courier, are used to indicated text direction. When you type at your keyboard, you are generating computer input. Occasionally you will see the math operator “greater-than” and “less-than” symbols used to indicate the start and finish of variable output. When reading text generated by the computer, you are reading it as computer generated output. In addition to direction, characters are italicized (e.g. *italics*) to indicate information specific to your system or site.

Example: Fixed Output

`This paragraph's font represents computer generated screen "fixed" output. Its output is fixed from the sense that it does not vary from application to application. It is the most commonly used style used to indicate filenames, paths and text that do not change from system to system. The character style used is a fixed width such as courier.`

Example: Variable Output

This paragraph's font represents computer screen output that is "variable". It is used to represent output that varies from application to application or system to system. Variable output is sometimes found placed between greater-than and less-than operators for clarification. For example: <variable_ouput> or <3.45.120.3>. In both cases, the < and > operators are not part of the actual input.

Example: Fixed Input

This paragraph's font represents fixed input. It is computer input that is typed-in via the keyboard. Typed input that does not vary from application to application or system to system. Fixed text the user is required to supply as input. For example: cd /usr/3p

Example: Variable Input

This paragraph's font represents computer input that can vary from application to application or system to system. With variable text, the user is required to supply system dependent input or information. Variable input sometimes is placed between greater-than and less-than operators. For example: <variable_input>. In these cases, the (<>) operators would be dropped prior to input. For example: **ypcat hosts | grep <*3.45.120.3*> would be typed into the computer as ypcat hosts | grep *3.45.120.3without the greater-than and less-than operators.***

Buttons, Switches and Keyboard Inputs (Hard & Soft Keys)

Different character styles are used to indicate actions requiring the reader to press either a hard or soft button, switch or key. Physical hardware, such as buttons and switches, are called hard keys because they are hard wired or mechanical in nature. A keyboard or on/off switch would be a hard key. Software or computer generated buttons are called soft keys because they are software generated. Software driven menu buttons are an example of such keys. Soft and hard keys are represented differently in this publication.

Example: Hard Keys

A power switch **ON/OFF** or a keyboard key like **ENTER** is indicated by applying a character style that uses both over and under-lined bold text. This is a hard key.

Example: Soft Keys

Whereas the computer **MENU** button that you would click with your mouse or touch with your hand uses over and under-lined regular text. This is a soft key.

1 General Requirements

1.1 Objectives and Overview Summary

1.1.1 Objective and Scope of This Manual

This document is intended as a guide and informational resource for planning and properly preparing a location for the installation of Definium Pace Select.

1.1.2 Summary

The purchaser is responsible for completion of “Pre-Installation.” This includes the procurement and installation of all required materials and services to get the room ready for installation of the product. This responsibility includes providing:

- A clean and safe work environment for installation of the product (finished floor, ceiling, walls, and proper room lighting).
- A location suitable for the installation of the product.
- Suitable support structures in the floor, walls, or ceiling necessary for the mounting of the product and/or its components.
- Installation of conduit, ducts and/or raceways necessary to route cables safely.
- Electrical power and grounds of specified quality and reliability.
- Electrical power of the required voltage, including an Emergency-Off safety switch in the room. Power and ground cables to the PDU.
- Properly installed and sized junction boxes, including covers and fittings at locations required and called out in architectural drawings.
- Use GE-recommended wires and cables as defined in this document.

1.1.3 Site Readiness Checklist

Table 1-1 Site Readiness Checklist

Xray Site Ready Checklist	Task	GE Health-Care	Customer/ Contractor		Reference
Equipment Storage (If Applicable)	Sufficient & secured storage space is planned.	☐			
	HVAC system installed and meets minimum environmental system requirements.	☐			
	Customer / Contractor has obtained required permits. PMI has the appropriate permission to rig and deliver through the designated path.	☐			

Table 1-1 Site Readiness Checklist

Xray Site Ready Checklist	Task	GE Health-Care	Customer/ Contractor		Reference
	Room and staging area that will receive the equipment are dust free. Precautions must be taken to prevent dust from entering room containing equipment.	☐📷			
	Delivery route from truck to room has been reviewed, all communications have occurred, arrangements made for special handling if needed.	☐			
	Floor along delivery route will support weight of equipment, reinforcement arranged if needed.		*Person Responsible*	☐	Pre-Installation Manual
Pre-Construction	Delivery route from truck to room has been reviewed, all communications have occurred, arrangements made for special handling if needed.	☐			
	Floor along delivery route will support weight of equipment, reinforcement arranged if needed.		*Person Responsible*	☐	Pre-Installation Manual
	Arrangements have been made for special handling of equipment if rigging, elevator, fork lift, etc. are required.	☐			
	The site IT/connectivity contact information has been entered in MyProjects. Site IT is engaged and supplying any local network and remote connectivity information that is required.	☐			
	Check for toilets (portable acceptable), washing facilities, area for food / drink breaks. Guidance 1 toilet for every 7 people.	☐			
	GEHC and other employees can easily evacuate the area if the need arises and the exits are signed and clear from obstruction.	☐			
Construction	Customer / Contractor has obtained required permits. PMI has the appropriate permission to rig and deliver through the designated path.	☐			
	Ceiling support steelwork height, levelness and spacing has been measured, and is ready for the installation of any GEHC supplied components.		*Person Responsible*	☐	Pre-Installation Manual
	Cable ways are of correct length & size, warning lights and door switches (if applicable) are per GEHC PIM specifications and final drawing.	☐📷			
	HVAC must be installed and meet the minimum environmental requirements. The HVAC system must be operational by system turn on.		*Person Responsible*	☐	Pre-Installation Manual
	All feeder wires and circuit breakers are sized appropriately and the emergency power off (EPO) button(s) installed.		*Person Responsible*	☐	Pre-Installation Manual

Table 1-1 Site Readiness Checklist (Table continued)

Xray Site Ready Checklist	Task	GE Health-Care	Customer/ Contractor		Reference
	PMI to confirm with electrician all power and signal cables are well terminated ensuring there are no loose connections.	☐			
	Lead doors and windows complete or scheduled before calibration phase. Radiation shielding finished & regulatory approval for installation obtained.	☐			
	Customer / contractor has confirmed that the floor meets GEHC specifications for levelness and flatness.		*Person Responsible*	☐	Pre-Installation Manual
	Room dimensions, including ceiling height, for all Exam, Equipment / Technical & Control rooms meets GEHC PIM specifications and final drawing.	☐			
Pre- Equipment Delivery	Check the area of the installation. The floor is complete, no trailing cables, no obstructions, no surface water.	☐			
	No adjacent ongoing / planned activities that may affect personnel safety.	☐📷			
	No potential exposure to hazards or odors during installation.	☐			
	Equipment must be in a clean environment where construction dust and debris are prevented from coming in contact with the equipment.	☐📷			
	A single source lockable electrical panel for GE equipment that can be locked from the outside. Lock Out Tag Out applied prior to commencing.	☐			
	Sufficient & secured storage space is planned with the customer.	☐			
	PMI should confirm that threshold at room entry meets GE specifications in appropriate Pre-Installation Manual.	☐			
	Ceiling has been completed, with the exception of removable tiles, which is at the GEHC Project Managers discretion.	☐			
	Room lighting is adequate to install equipment in a safe and effective manner. Permanent lighting may not yet be available.	☐			
	Countertops and / or tables are in place for equipment installation. Temporary tables of suitable size can be used to start installation.	☐			
	System power & ground cabling provided from PDB / MDP to equipment per GEHC Pre-Installation Manual specifications and final drawings.	☐			

Table 1-1 Site Readiness Checklist (Table continued)

Xray Site Ready Checklist	Task	GE Health-Care	Customer/ Contractor		Reference
	A power and grounding audit may be scheduled for all installations where power issues may be a concern.	☐			
	Network connection is active for equipment. Verified with site IT has provided the Connectivity information required and Remote Connectivity (Internet or VPN) will be available before install completion.	☐			
Documents	**Customer Documentation Portal - https://customer-doc.cloud.gehealthcare.com/#/cdp/dashboard**				
	Search by Document Number and desired language				
	Manual		**Document Number**		
	Pre-Installation Manual		Refer to page 1 of drawing		

Customer / Contractor X-ray Data Sheet			
HVAC			
Room	**Temp (C or F)**	**Humidity %RH**	
Exam Room			
Control Room			
Technical Room			
Floor Levelness and Flatness			
Measurement	**Max (mm or in)**	**Min (mm or in)**	
Equipment location area			

Ceiling Structure Specifications		
Measurement	**Min (mm or in)**	**Max (mm or in)**
Distance between structure rails perpendicular to GEHC rails		
Distance between stationary rail structure mounting points		
Structure mounting points horizontal plane height		
Diagonal distance between outer mounting points		
Distance between back stationary rail and cable take up rail		
INSITE - REMOTE CONNECTIVITY		
Depending on product family and software revision, GEHC systems can be connected to the GEHC Back Office/Online Center for remote diagnostic, system health monitoring and to facilitate troubleshooting. To enable InSite remote service, Selecting One of the below options and providing the requested information is Required:		
☐ 1. TLS Internet Access TCP Port 443* - DNS Resolution (Preferred – Please provide DNS in Network Info)		

Customer / Contractor X-ray Data Sheet						
HVAC						
☐ 2. TLS Internet Access TCP Port 443* - Customer Provided Proxy						
Proxy IP			**Port**			
Username			**Password**			
*If firewall rules or exemptions are required for successful connectivity, add the following URLs to allow outbound TLS communication:						
https://insite.gehealthcare.com						
https://as1-insite.gehealthcare.com						
https://as2-insite.gehealthcare.com						
https://gehealthcare-ns.flexnetoperations.com						
https://download.flexnetoperations.com						
☐ 3. Site-to-Site IPSec VPN (GEHC VPN Proxy) (Requires Static IP)						
NETWORKING - LOCAL CONNECTIVITY						
IP Information	**IP Address***	**Netmask***	**Gateway***	**Port#***	**AE Title***	**Notes**
System 1						
System 2						
System 3						
System 4						
DNS Server 1		N/A	N/A	N/A	N/A	
DNS Server 2		N/A	N/A	N/A	N/A	
PACS and HIS/RIS						
PACS HIS/RIS INFO	**IP Address ***	**Port#***	**AE Title***	**Notes**		
PACS 1						
PACS 2						
HIS/RIS						
OTHER						
OTHER						
*Required Fields						

1.2 Common Product Requirements

1.2.1 Dimensions and Layout

Carefully check room layouts for adequate radiographic coverage, necessary clearances and provision for related equipment. Good judgement is required to avoid compromising important features. There must be ample maneuvering space allowed for the hospital cart and for personnel around the table.

1.3 Delivery Requirements

1.3.1 Door Size Requirements

Minimum door sizes also apply to hallway and elevator.

Door Height:

There is no special requirement for door height when the product is being transported. The door height can meet the normal door height, for example, higher than 2.1m (6.89 ft).

Door Width:

- The recommended door width to accommodate the Table is: 101 cm (39.8 in). In this case, tabletop need float to the rear limit position.
- The minimum door width to accommodate the Table is: 87.7 cm (34.5 in). In this case, table base need flip 90 degree to fit through the narrow door. Table flip dolly is used for the transportation of table.
- The minimum door width is calculated based on a straight-in approach requiring a 2.5 m (8.20 ft) wide corridor. Minimum widths will change based on narrower corridors.

1.3.2 Minimum Elevator Depth Requirements

Minimum door size also applies to hallway and elevator. The minimum elevator depth to accommodate is 2.5 m (8.20 ft) which is length of Integrated Table. For more details, see 1.3.3 Shipping Dimensions and Weights on page 25.

1.3.3 Shipping Dimensions and Weights

Component	Shipping Dimensions (Approx)			Shipping Weight (Approx)	Shipping Method
	Shipping Data				
	Length	Width	Height		
Cabinet Assembly in Package	1100 mm (43.31 inch)	840 mm (33.07 inch)	1130 mm (44.49 inch)	247 kg (544.5 lbs.)	Box
Cabinet in Transit	900 mm (35.43 inch)	600 mm (23.62 inch)	932 mm (36.69 inch)	198 kg (436.5 lbs.)	Skid
Definium Pace Select WallStand and Component	2585 mm (101.77inch)	1010mm (39.76 inch)	1040mm (40.94 inch)	267 kg (588.6 lbs.)	Crate
Definium Pace Select Table and Component	2600 mm (102.36 inch)	1200mm (47.24 inch)	1050mm (41.34 inch)	528 kg (1163.9 lbs.)	Crate
Definium Pace Select Tubestand and Component	2585 mm (101.77 inch)	1010mm (39.76 inch)	1040mm (40.94 inch)	314 kg (692.2 lbs.)	Crate
Accessories Collector for Definium Pace Select	850 mm (33.46 inch)	820 mm (32.28 inch)	920 mm (36.22 inch)	34 kg (75.0 lbs.)	Box

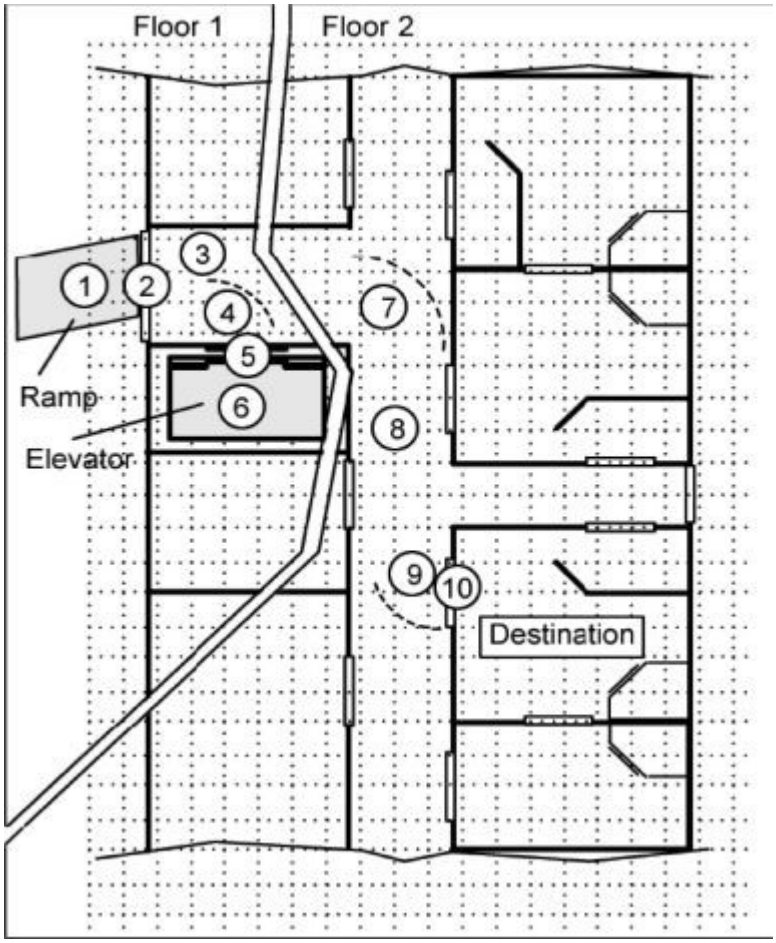
1.3.4 Preparing the Delivery Route

1. Sketch out the route.
   Begin preparing Route Survey by sketching the area of the hospital or clinic which will receive the equipment. Include all areas on the delivery route from outside of building to destination. See sample sketch below in Figure 1-1 Sample Route on page 26.

   NOTICE

   The reference numbers in circles refer to the Route Survey data shown in Figure 1-1 Sample Route on page 26. The Route Survey is a form on which site data is listed.

   Figure 1-1 Sample Route



2. Survey the Route
   Record all loading capacities, corridor widths, door openings, turning radii, flooring materials, elevator sizes, obstructions and so on for reference.

3. Check the Route
   Verify equipment can actually be transported via the roue determined.

2 Equipment

2.1 System Components

2.1.1 System Components

This system may consist of the following main components:

1. Manual Tube-Stand
2. Tube
3. Collimator
4. Fixed Table
5. Manual Wall Stand
6. VCP Cabinet
7. FlashPad Select Wireless Digital Flat Panel Detector
8. Detector Battery & Charger
9. Wireless AP
10. Workstation (monitor, keyboard, mouse, RCIM2, hand switch and HP Z4G4 PC)
11. DAP meter

NOTE
To prevent water or dust, place the PC on shelf instead of directly on the ground.

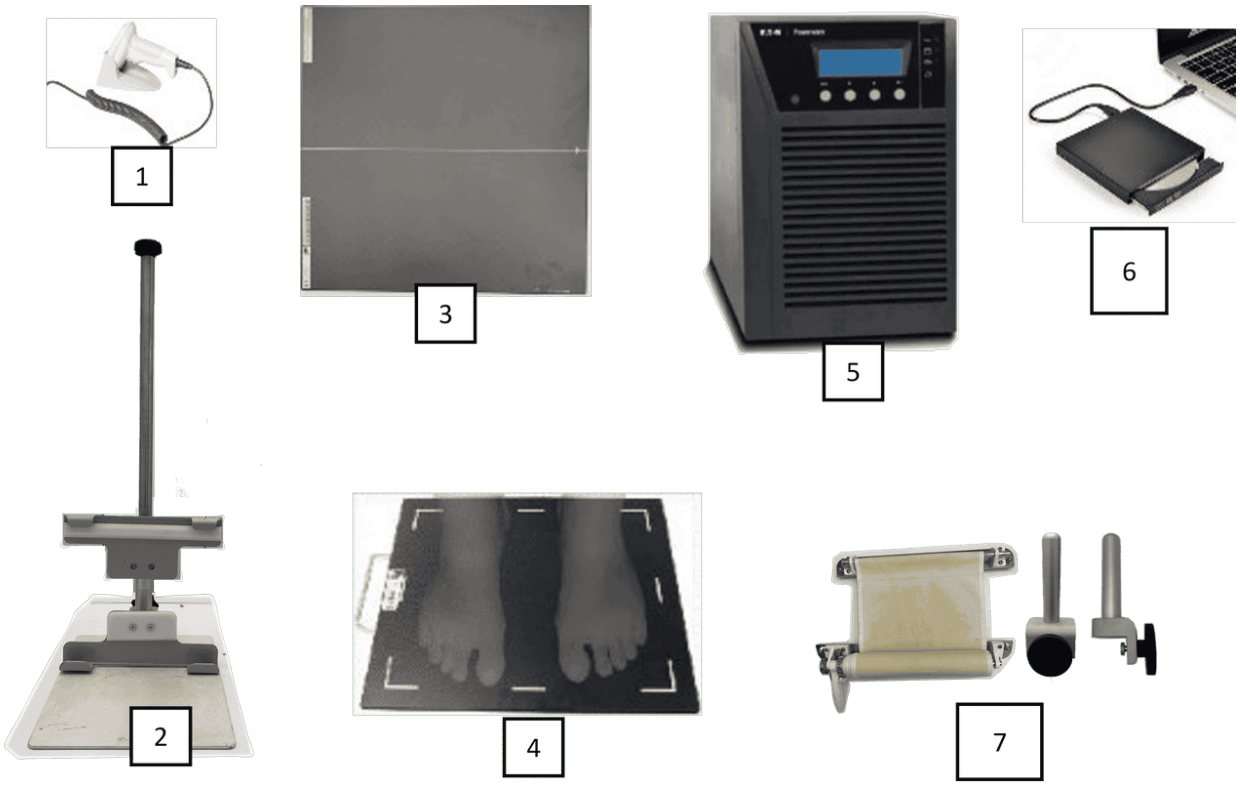
Figure 2-1 System Component Identification

2.1.2 Optional Components

The system can include the following free-standing components, which can be purchased as options:

1. Barcode Reader for patient information input
2. Detector Holder for cross-table acquisition
3. Grids for Table and WS
4. Detector weight bearing cover
5. Uninterrupted Power Supply (UPS)
6. External DVD Driver
7. Compression Band and Hand Grips

Figure 2-2 Optional System Component Identification



2.1.3 Room Requirements

2.1.3.1 Acoustic Output

Table 2-1 System Acoustic Output

Component	Sound Output (dBA)	
	In-use (measured 1m from any point in system)	Stand-by (measured 1m from any point in system)
System	< 65	< 60

2.1.3.2 Room Lighting Requirements

The lighting of the room should ensure patient exposure use and GEHC normal service. Depend on different applicable scenery, highly recommended provide different room light source, as Table 2-2 Room Lighting requirements on page 29.

Table 2-2 Room Lighting requirements

Light Source	Illuminance (lux/lx)	Recommended Equivalent (W)	Applicable Scenery
LED lamp	75~800	15~150	Patient exposure
Fluorescent lamp		30~300	
LED lamp	300~800	50~150	GEHC service
Fluorescent lamp		80~300	

For the electronic ballast of fluorescent lamp in exam room, the operating frequency should be above 42KHz. For reference:

Table 2-3 Requirements for Electronic ballast of fluorescent lamp

Priority	Manufacture	Type		Manufactory Product number	Operating frequency	Remarks
1	OSRAM	T5	QTi2X35/49/80	4008321174291	45...70KHZ	Except OTIS e3x36/220-240 CW

2.1.3.3 Floor Requirements

The preferred method of installing the table and wall stand is to use the provided floor anchors.

2.1.3.3.1 Floor Levelness Specifications

Critical Specifications

Accurate patient positioning during scanning depends on proper alignment of the wallstand and the table. The floor levelness specification in the following table ensure that the table and wallstand height adjusters have enough range to allow proper leveling of the system.

Table 2-4 Critical Specification for Floor Levelness

Specification	Metric (Minimum)	English (Minimum)
Levelness	6 mm maximum variance over 3048 mm	¼ in. maximum variance over 10 ft.

2.1.3.3.2 Floor Requirements When Using Provided Floor Anchors

CAUTION

Potential for Injury and/or Equipment Damage:

Anchors must be a minimum of 75 mm (2.96 in) from any concrete edge including ducts and cracks. In addition, the general condition of the concrete in the immediate mounting area should be inspected to ensure that anchors will be set in good quality concrete.

NOTICE

Recommended concrete strength is C30 or equivalent.

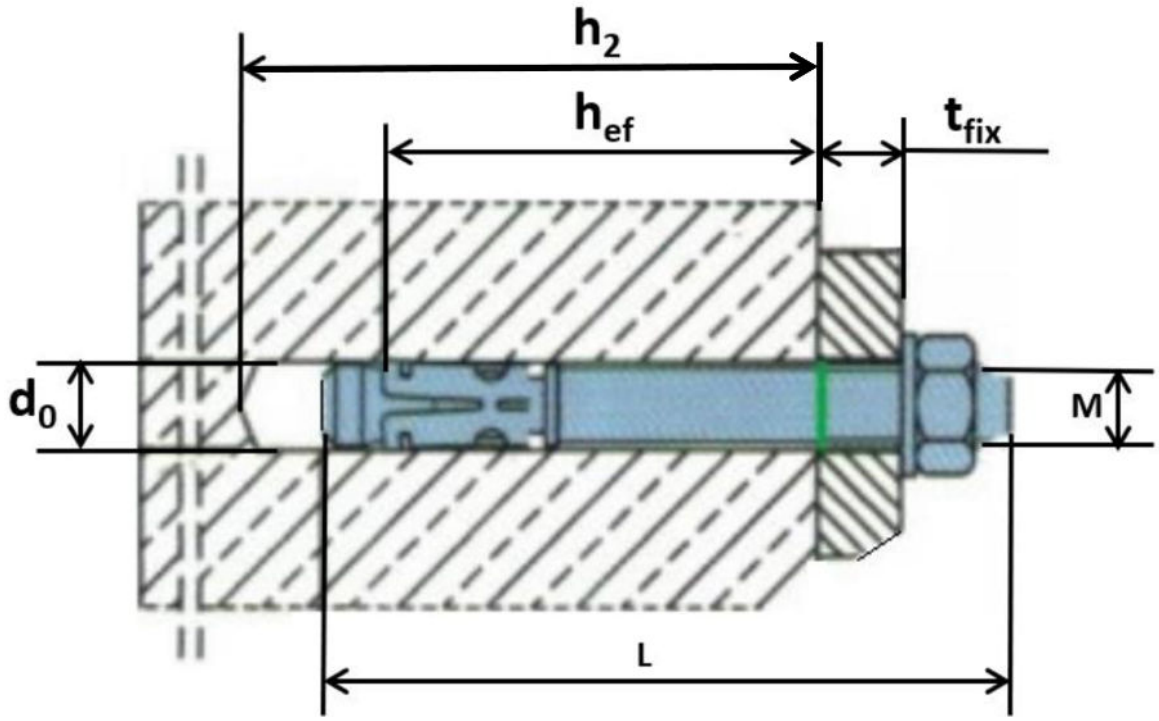
2.1.3.3.3 Anchor Information for the Table and Wall Stand

Figure 2-3 Floor Anchor

Table 2-5 Anchor Information

Part Number	5923785
Part Description	Anchor M12x110
Specifications	Thead M M12 Anchor total length L 110 [mm] (4.331 in.)
Anchor Material	Stainless Steel，A2-70
Nut	Hex Nut GB/T 6170 M12 A2-70
Washer	Large Plain Washer GB/T 96.1 12 A2 1 Hex Nut and 1 Large Plain Washer for each Anchor

Figure 2-4 Installation Parameter of Floor Anchor



The following installation parameter recommended by supplier and is for installation reference.

d_0	Drill diameter	12 mm (0.472 in.)
h_2	Min. drill hole depth for through fixings	90 mm (3.543 in.)
h_{ef}	Min. effect anchoring depth	70 mm (2.756 in.)
t_{fix}	Max. thickness of the fixture	30 mm (1.181 in.)

2.1.3.3.4 Table

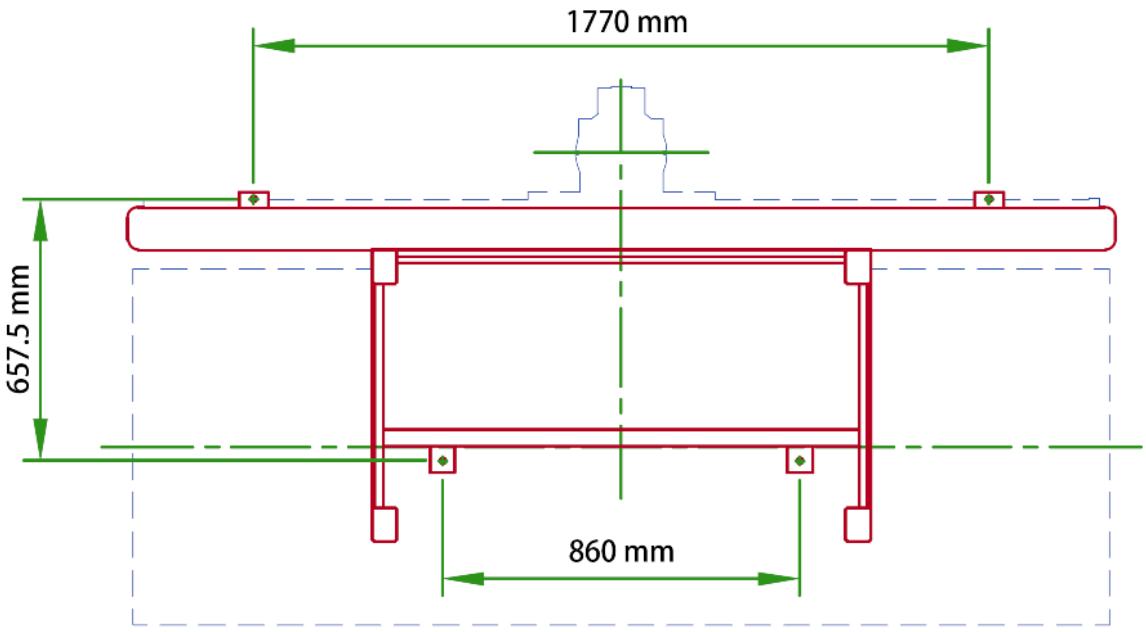
The Table Assembly is placed on the floor, which must accept the weight and the weight/area defined in Table 2-7 Product Physical Characteristics (weight) on page 51.

- The weight of the complete fixed table is 438 kg (965.625 lb.).
- The dimension for the floor anchors is M12*110 mm (diameter 0.472 in. and length 4.331 in.).
- The hole drilling diameter is ϕ12 mm (0.472 in.).
- The hole drilling depth is ≥ 90 mm (3.543 in.)
- Anchors require a minimum effect anchoring depth of 70 mm (2.756 in.) into the concrete.
- The ground surface must be approximately level.
- The Table system must be attached to the floor.

The floor bearing the system must be concrete and the thickness to be determined by a Structural Engineer to properly support the equipment loads. The supplied anchors require a minimum embedment of 70 mm (2.756 in.) into the concrete. If the floor thickness is less than 90 mm (3.543 in.), it is recommended that the unit be secured using a through-bolt method with a reinforcement

plate on the back side. For additional details, see Table 2-7 Product Physical Characteristics (weight) on page 51.

Figure 2-5 Floor Mounting - Table Assembly



2.1.3.3.5 Wall Stand

The Wall Stand Assembly is placed on the floor, which must accept the weight and the weight/area defined in 1.3.3 Shipping Dimensions and Weights on page 25.

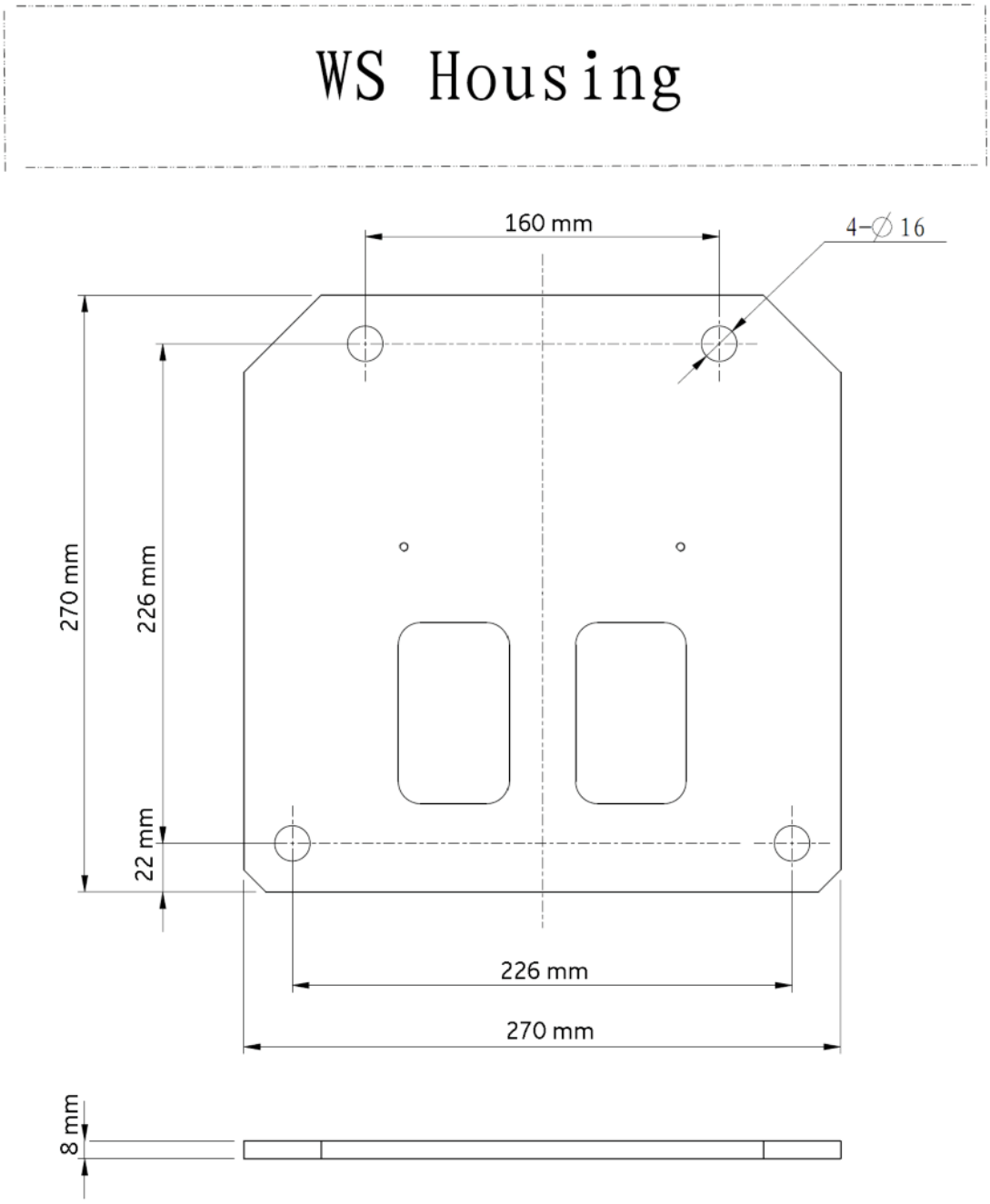
- The weight of the complete wall stand is 105 kg (231.485 lb.).
- The dimension for the floor anchors is M12 * 110 mm (diameter 0.472 in. and length 4.331 in.).
- The hole drilling diameter is ϕ12 mm (0.472 in.).
- The hole drilling depth is ≥ 90 mm (3.543 in.)
- Anchors require a minimum effect anchoring depth of 70 mm (2.756 in.) into the concrete.
- The ground surface must be approximately level.
- The Wall Stand system must be attached to the floor.

CAUTION

Concrete area for wall stand installation should be 0.1 m^2.

The floor bearing the system must be concrete and the thickness to be determined by a Structural Engineer to properly support the equipment loads. The supplied anchors require a minimum embedment of 70 mm (2.756 in.) into the concrete. If the floor thickness is less than 90 mm (3.543 in.), it is recommended that the unit be secured using a through-bolt method with a reinforcement plate on the back side. For additional details, see 1.3.3 Shipping Dimensions and Weights on page 25.

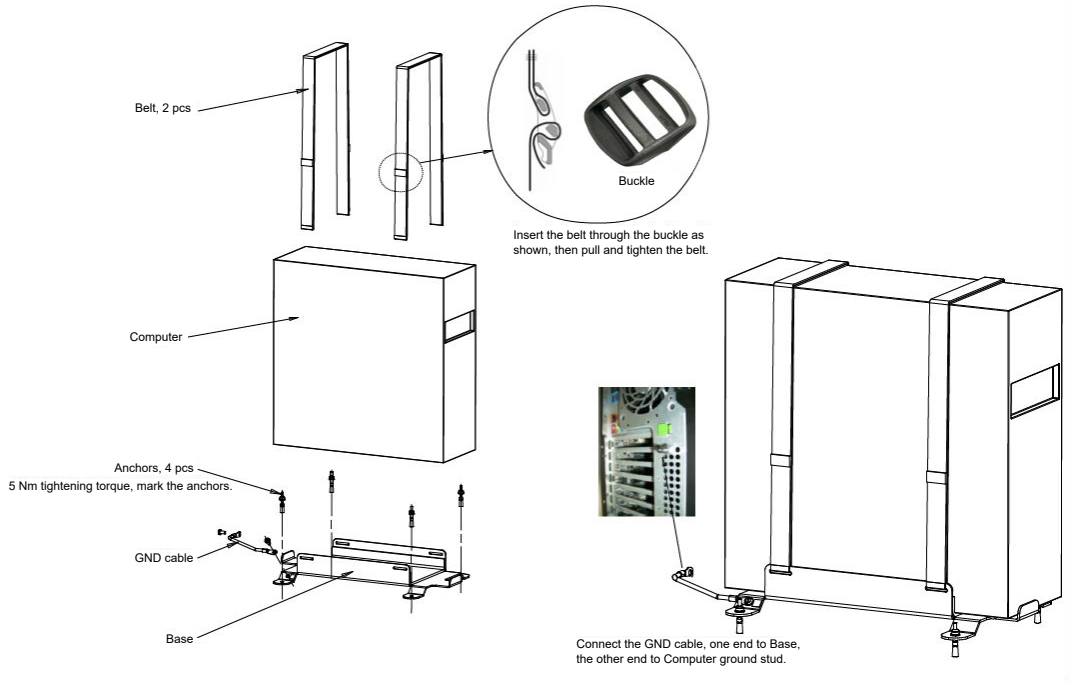
Figure 2-6 Floor Mounting – Wall Stand



2.1.3.3.6 PC Floor Mounting Requirement for Seismic Region

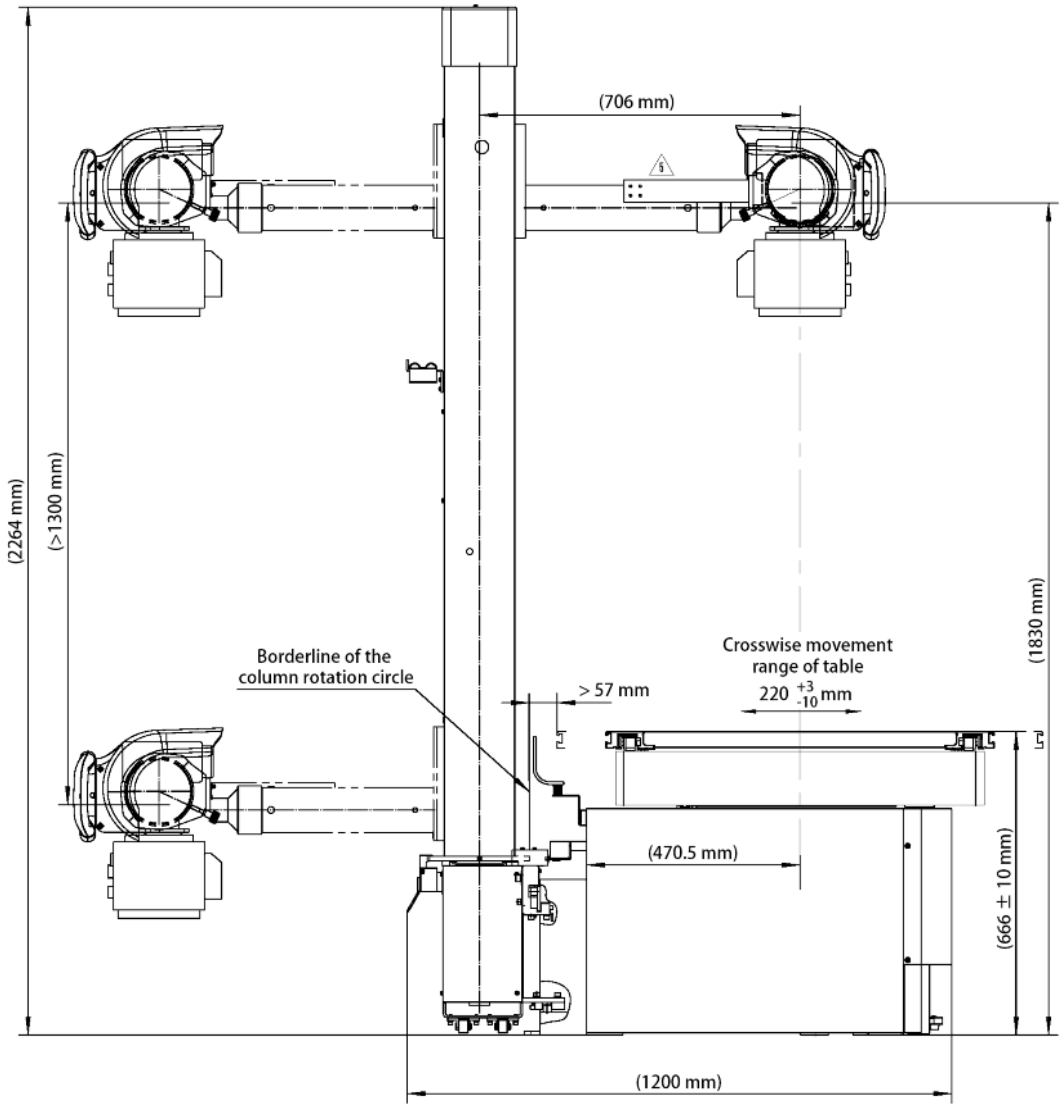
1. Drill four holes on the floor per below base plate dimension, depth≥30 mm (1.181 in.).
2. Mount the base pate with four anchors, tighten the anchor nuts (torque reference, 5 Nm), and do marks.
3. Put the computer on the base plate and fix it with the belts, refer to below picture.
4. Connect the GND cable with base plate and computer ground stud.

Figure 2-7 PC Floor Mounting



2.1.3.4 Ceiling Requirements

Figure 2-8 Minimum Room Ceiling Requirement



The minimum room height is 2.6 m (102.362 in.), for the following three considerations:

Considering wall stand column cover and tube stand column cover installation request,

- the min height of room for wall stand column cover installation is 2.54 m (100 in.);

- the min height of room for tube stand column cover installation is 2.42 m (95.276 in.).

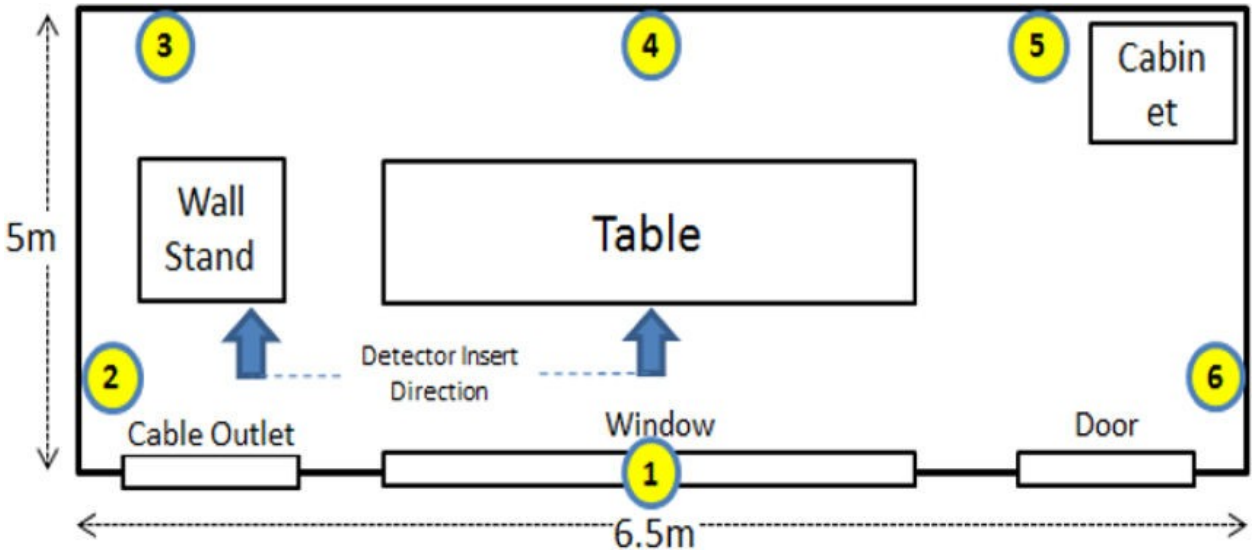
2.1.3.5 Wall Requirements

AP should be installed on a suitable wall and afford the ASSY.

2.1.3.5.1 AP Assembly

Refer to below pictures to find out the AP position. There are 6 different positions is available to AP wall-mounting.

Figure 2-9 AP Wall-mounting position



NOTE

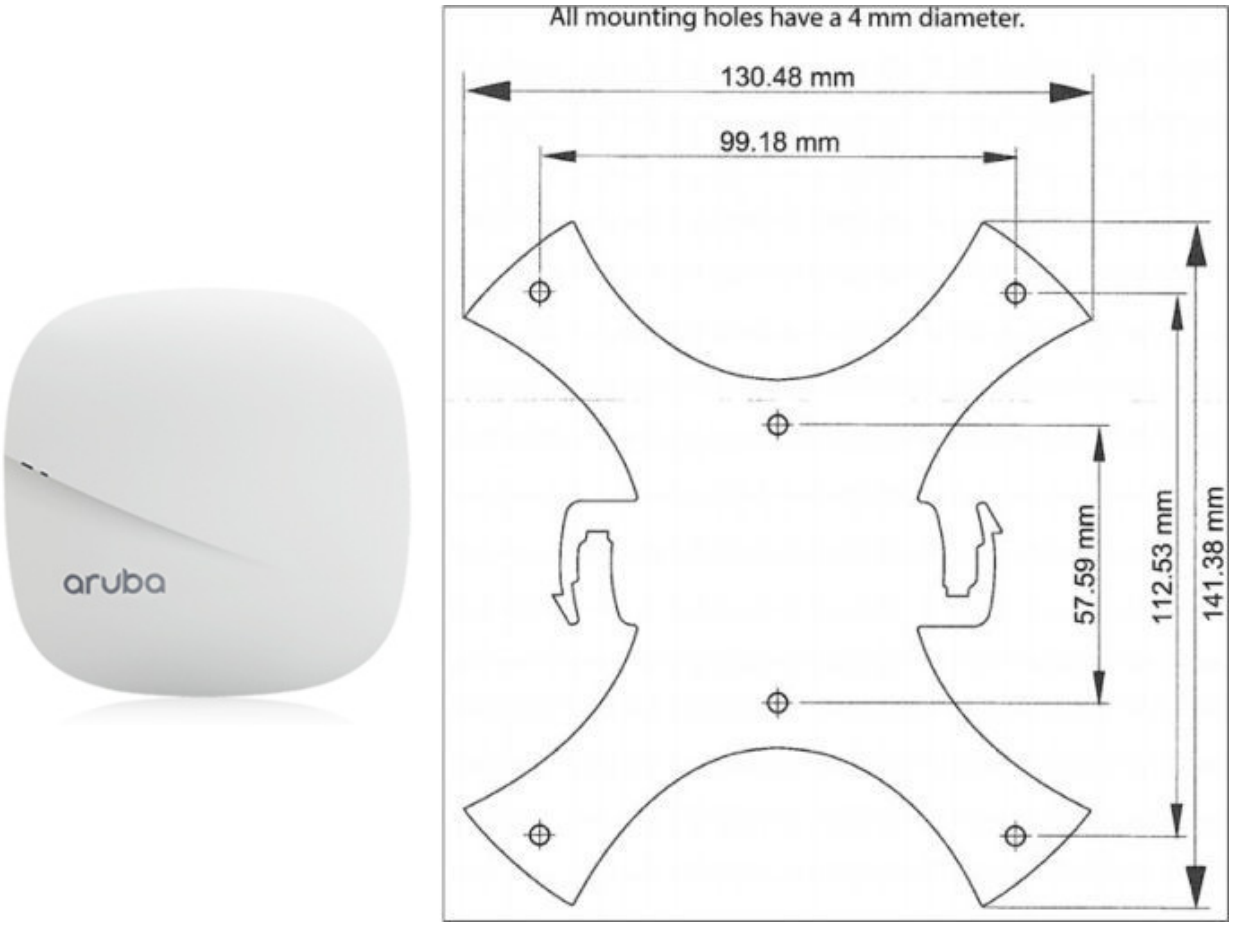
Wall Mounted: 2.5m Height to avoid potential blocking from human or other obstacles

The AP power cables length is listed as follows. Please figure out the AP installation location by considering the cable length.

- AP power cable (from AP power supply inside system cabinet to AP): 20 ± 0.1 m (787.402 ± 3.937 in.)
- AP Ethernet cable (from Magic PC to AP): 25 ± 0.2 m (984.252 ± 7.874 in.)

Use the image below as template for mounting AP Wall Mount Kit. All mounting holes have a 4 mm diameter

Figure 2-10 Dimensions of AP mounting part



NOTE
AP is only provided for wireless system. The AP is not included for non-wireless detector configured systems.

2.1.3.6 Exam Room Size

For size of exam room and additional details, see 2.3 Room Layout on page 52.

2.1.3.7 Service Access Requirements

Allow appropriate space for service access of equipment, per country and regional requirements.

2.2 System Component Dimensions and Weights

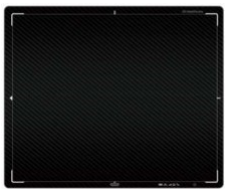
2.2.1 Dimensions

Table 2-6 Product Physical Characteristics (Width / Depth / Height)

Product or Component	Dimensions			References
	Width	Depth	Height	
Operator Console: • PC HP Z4G4 • Monitor • RCIM2	168 mm (6.6 in) 575 mm (23 in) 451 mm (17.8 in)	445 mm (17.5 in) 245 mm (9.6 in) 135 mm (5.3 in)	432 mm (17 in) 510 mm (20 in) 70 mm (2.8 in)	
Definium Pace Select Fixed Table	2376 mm (93.5 in)	1264 mm (49.8 in)	2264 mm (89.1 in)	For more details, see 2.2.3 Integrated Table on page 41
Definium Pace Select Manual WallStand	600 mm (23.6 in)	321.5 mm (12.7 in)	2084.3 mm (82.1 in)	For more details, see 2.2.5 Wall Stands on page 47
System Cabinet	900 mm (35.4 in)	600 mm (23.6 in)	932 mm (36.7 in)	For more details, see 2.2.4 System Cabinet on page 45
AP Assembly	140 mm (5.5 in)	140 mm (5.5 in)	20 mm (0.8 in)	For more details, see Figure 2-10 Dimensions of AP mounting part on page 39
FlashPad Select Wireless Digital Flat Panel Detector	460 mm (18.1 in)	460 mm (18.1 in)	15 mm (0.6 in)	For more details, see 2.2.2 FlashPad Detector on page 40
UPS (option)	160 mm (6.3 in)	357 mm (14.1 in)	252 mm (9.9 in)	For more details, see 2.2.6 UPS on page 51

2.2.2 FlashPad Detector

Figure 2-11 FlashPad Detector overview



Dimensions: L 460 mm (18.110 in.), H 460 mm (18.110 in.), T 15.2 mm (0.598 in.)

- Battery operated. Includes two rechargeable and exchangeable batteries.
- Desktop battery pack charger.
- FlashPad Select 1717X detector power adaptor is offered for detector firmware download.
- Network cable should be Type-C cable.

2.2.3 Integrated Table

Figure 2-12 Table Views of Definium Pace Select Table (Front View)

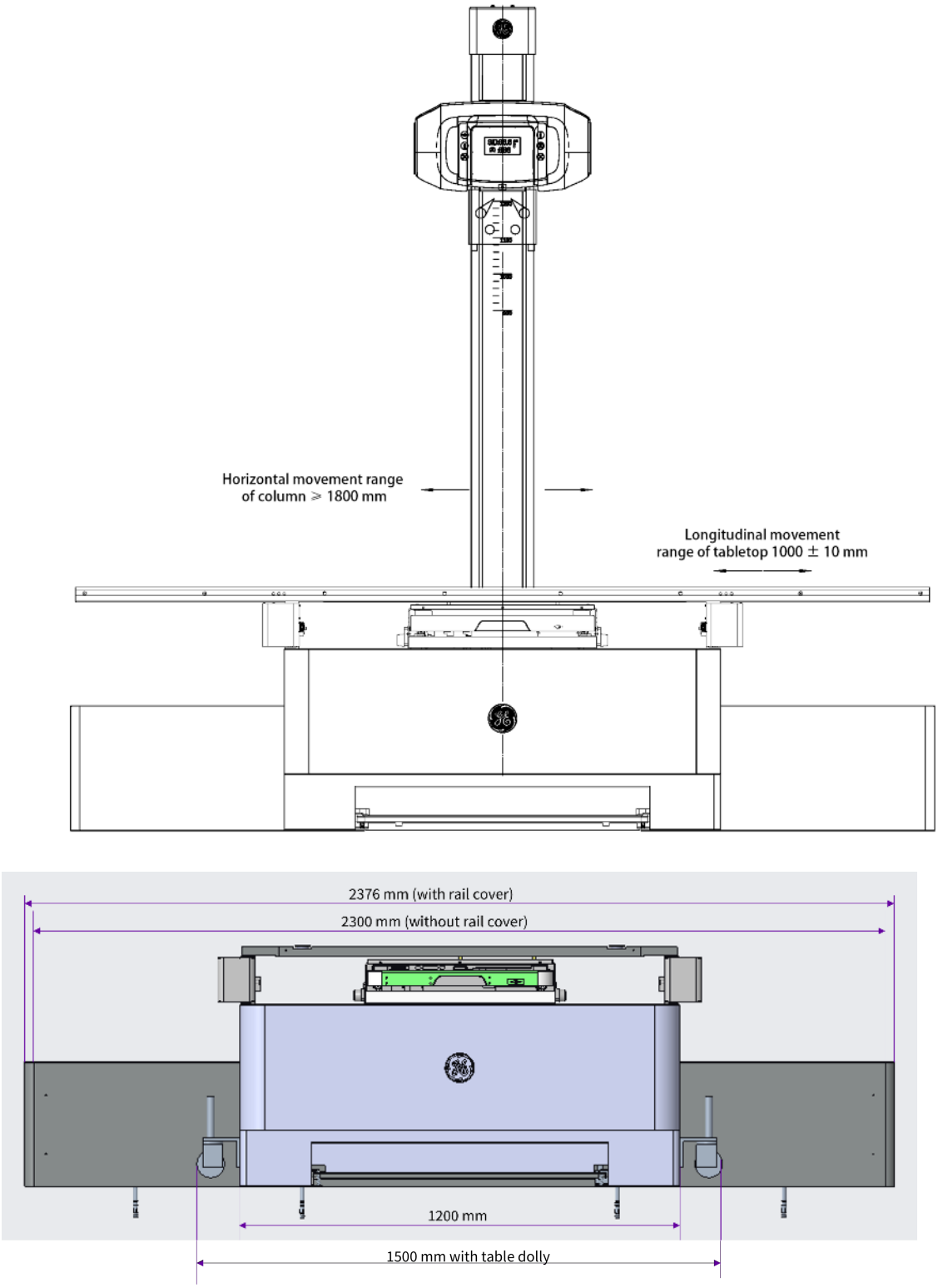
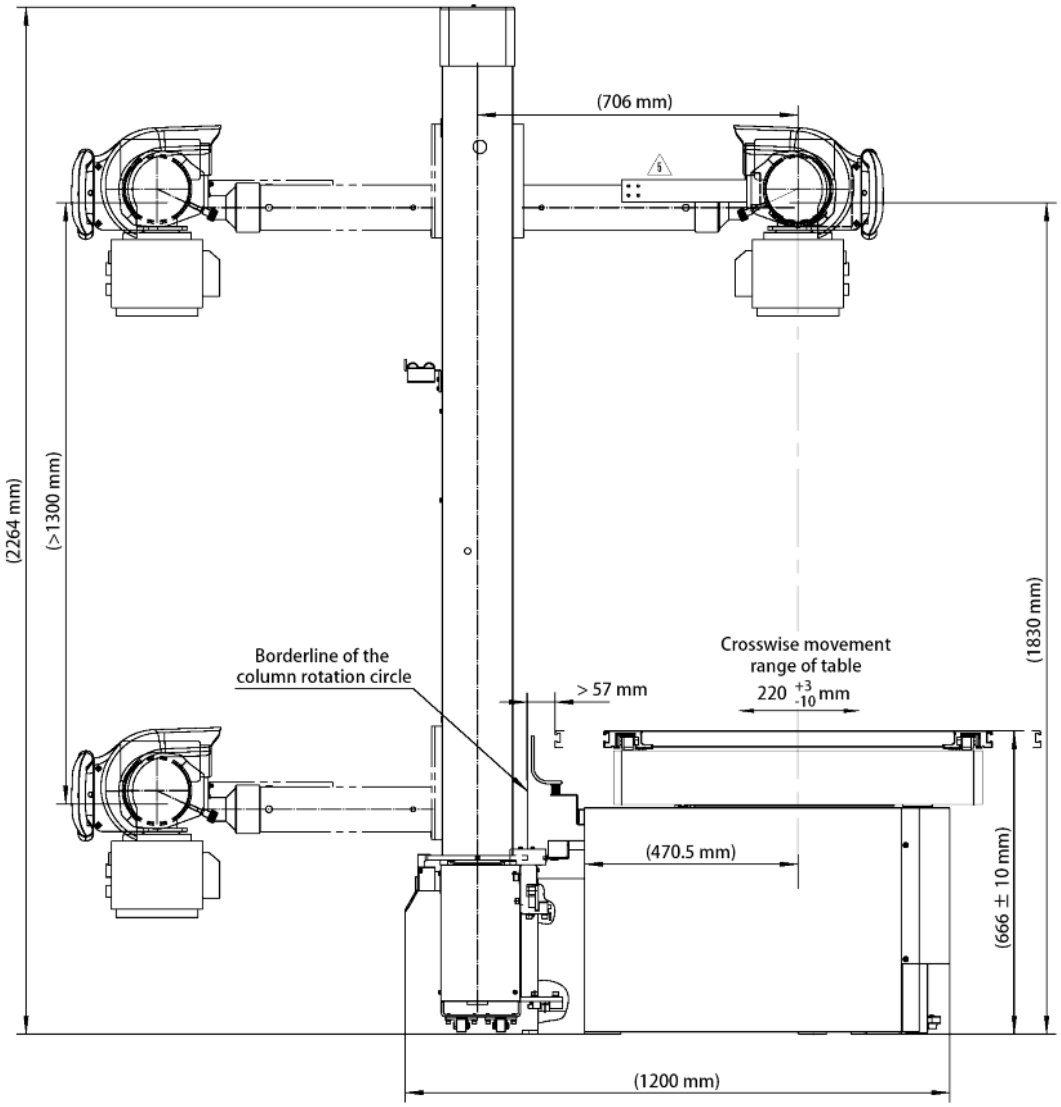


Figure 2-13 Table Views of Definium Pace Select Table (Side View)



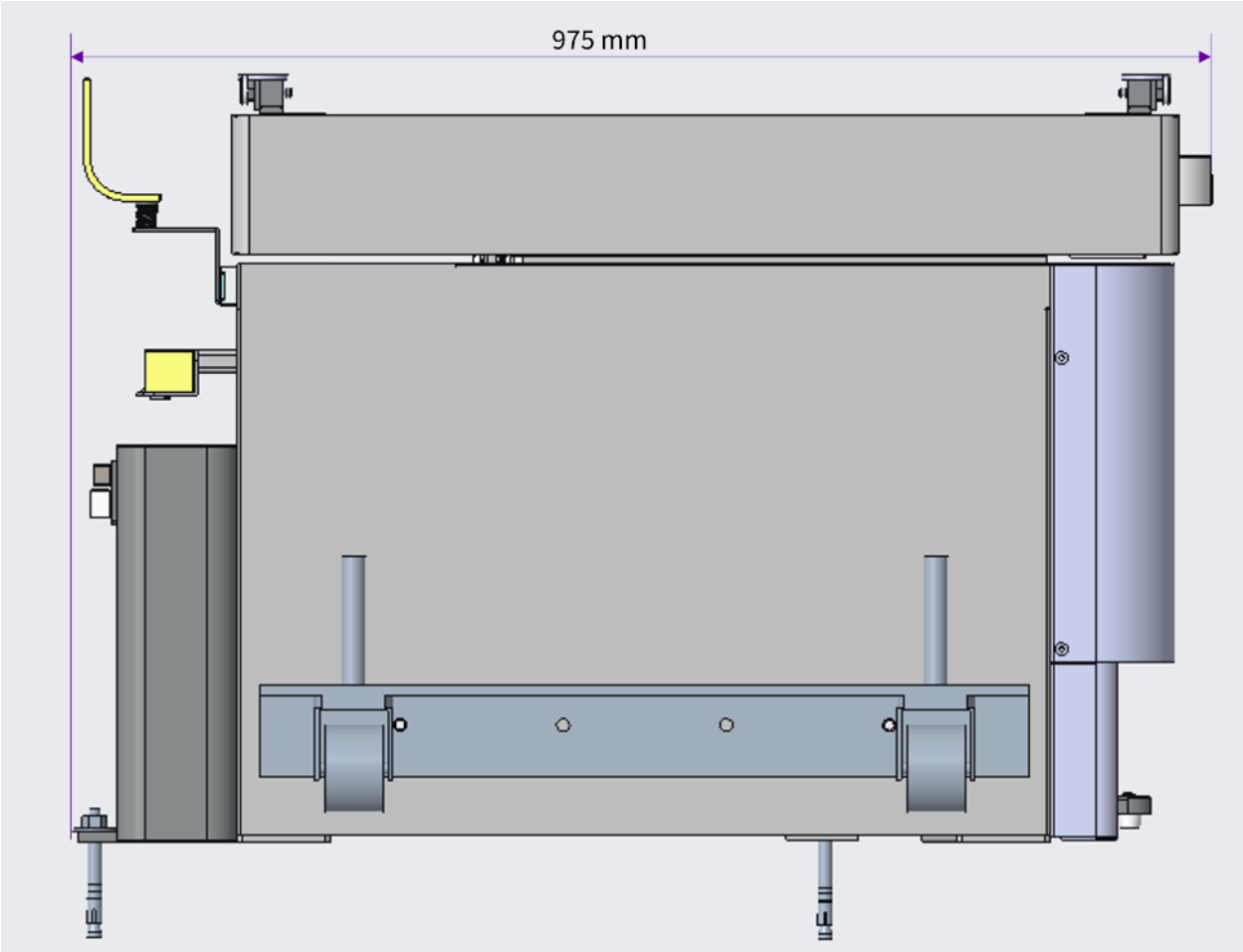
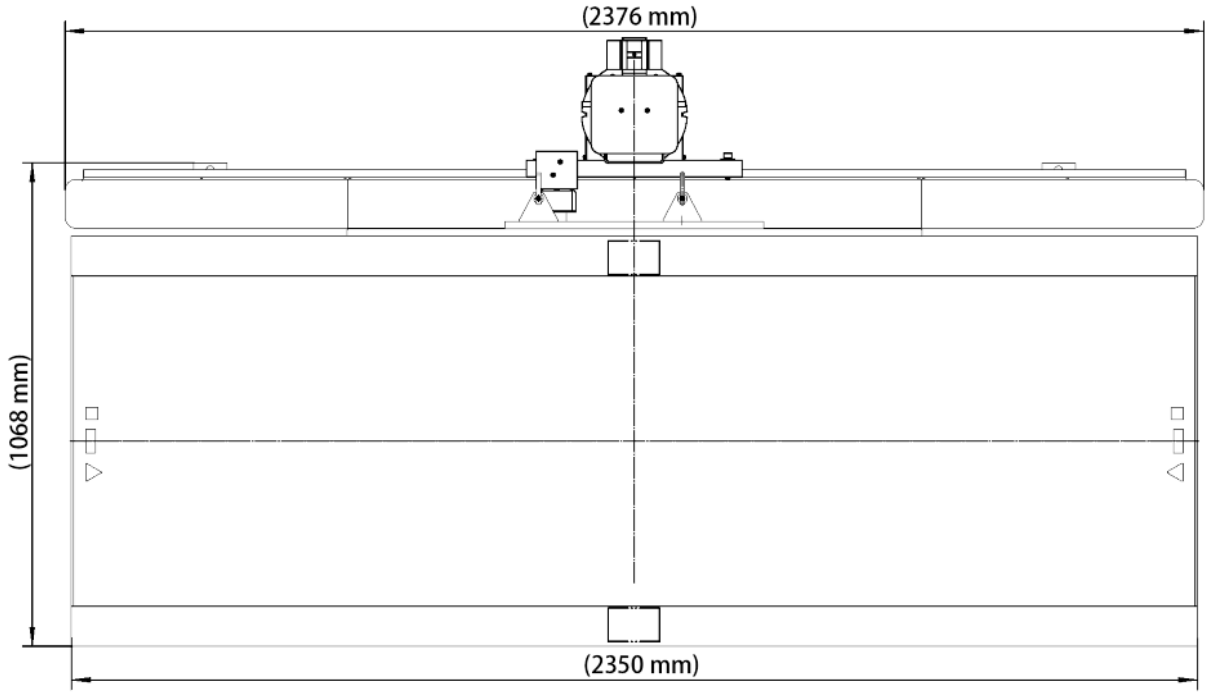
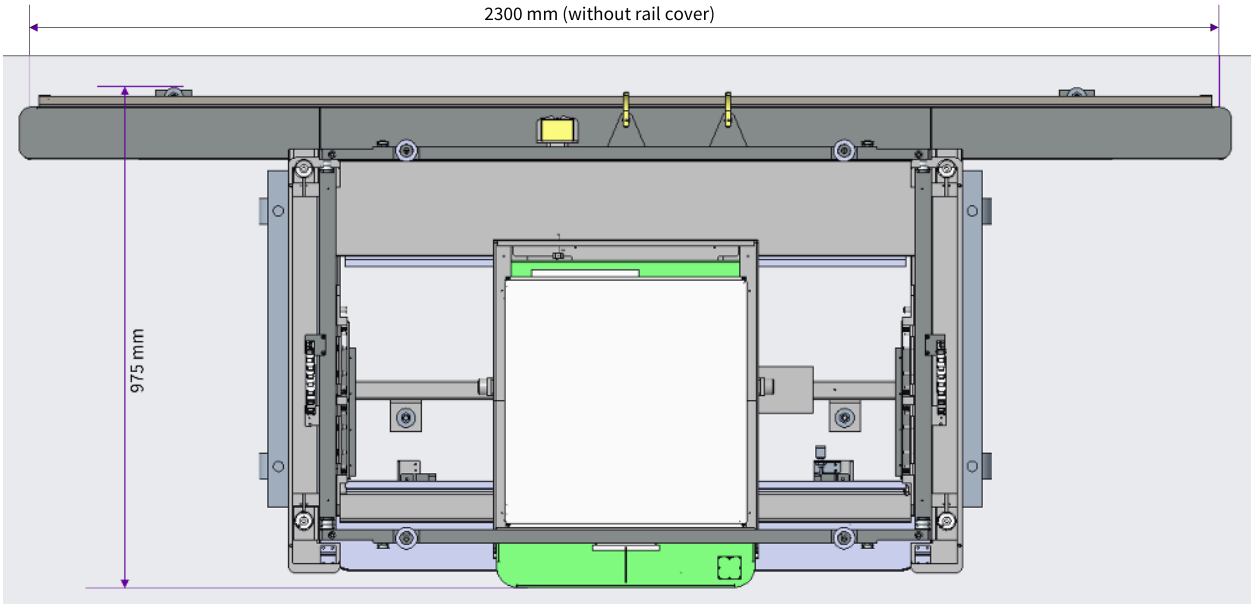

975 mm

Figure 2-14 Table Views of Definium Pace Select Table (Top View)





2.2.4 System Cabinet

Figure 2-15 System Cabinet Dimensions

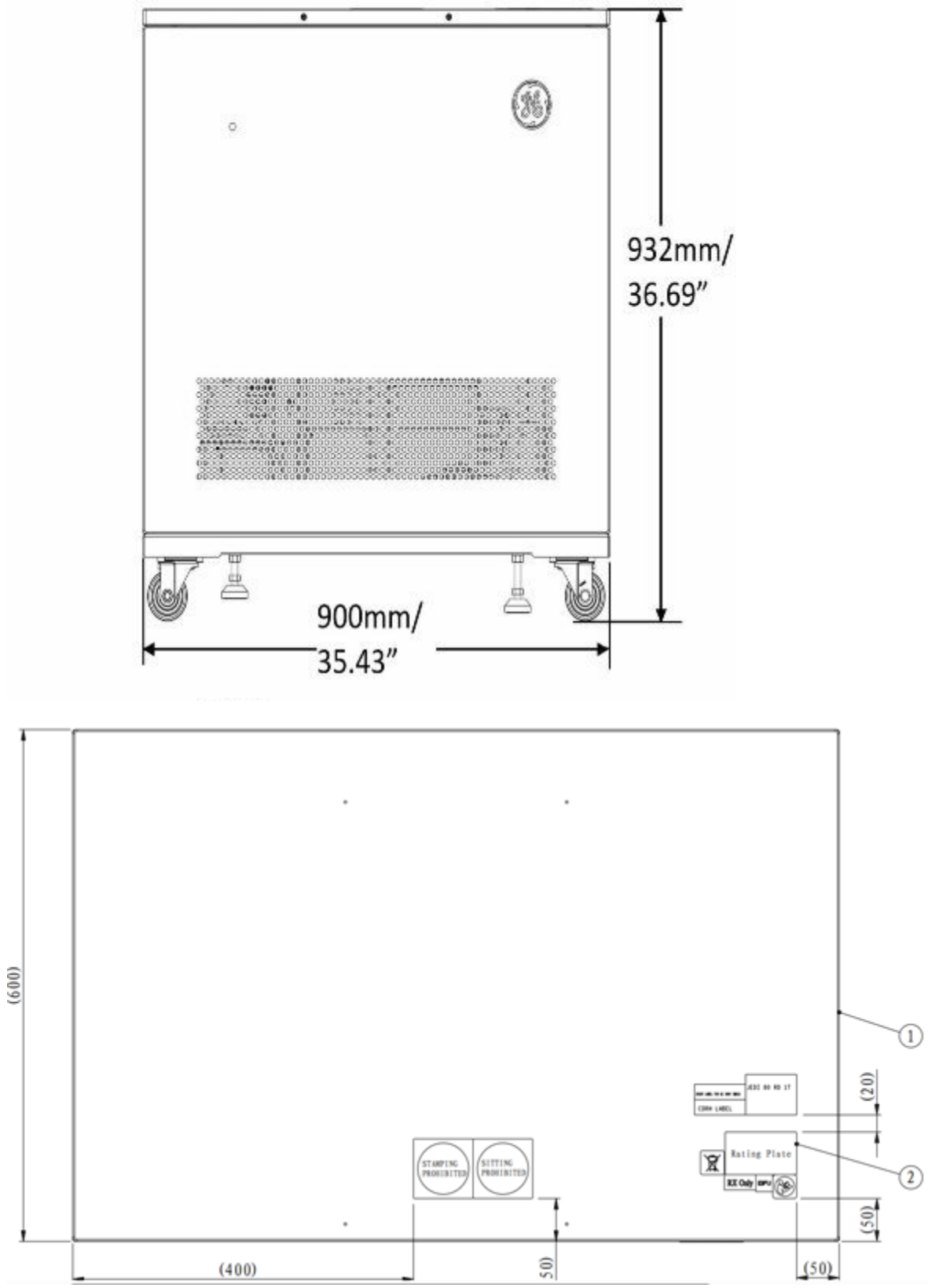
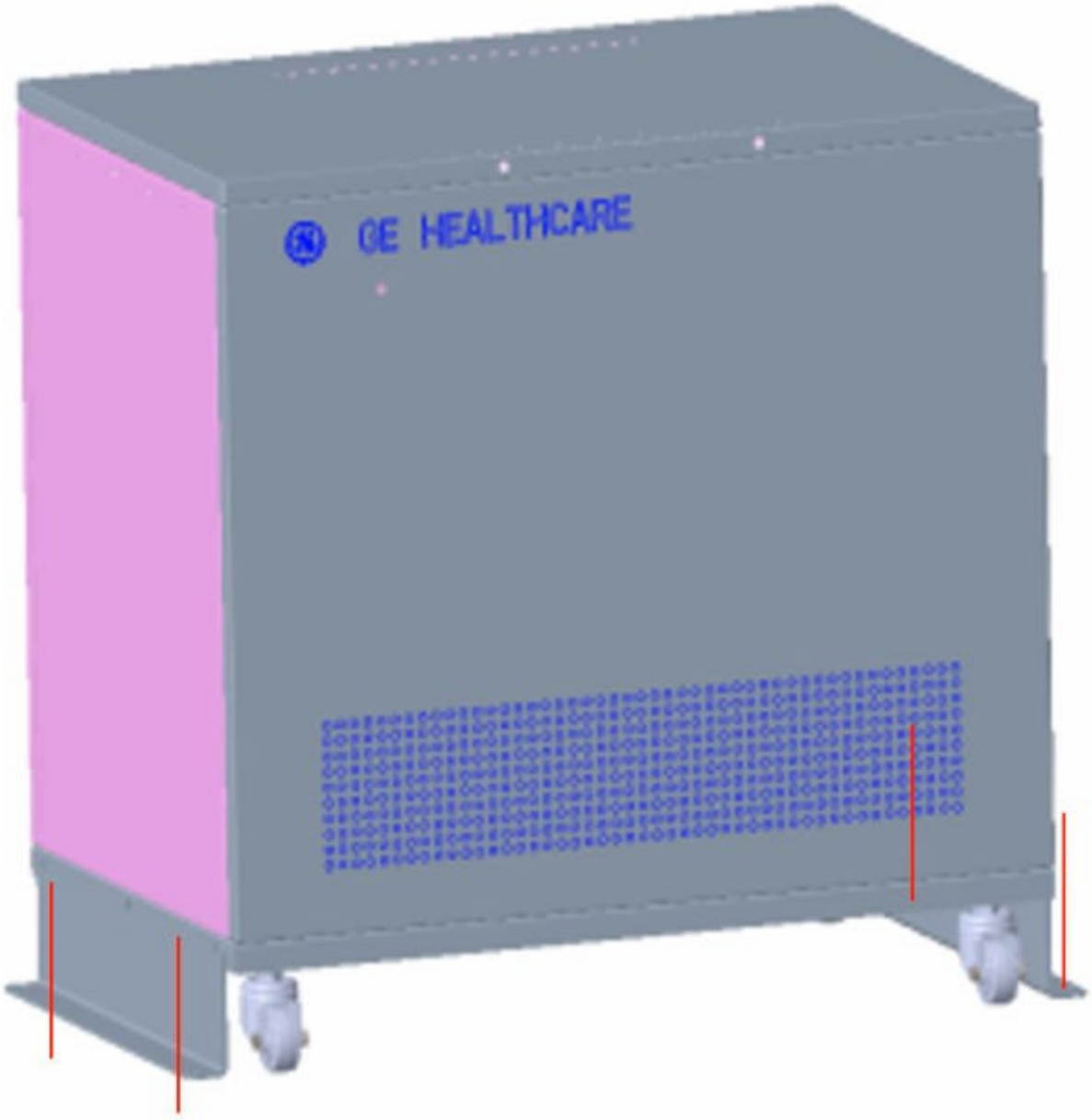


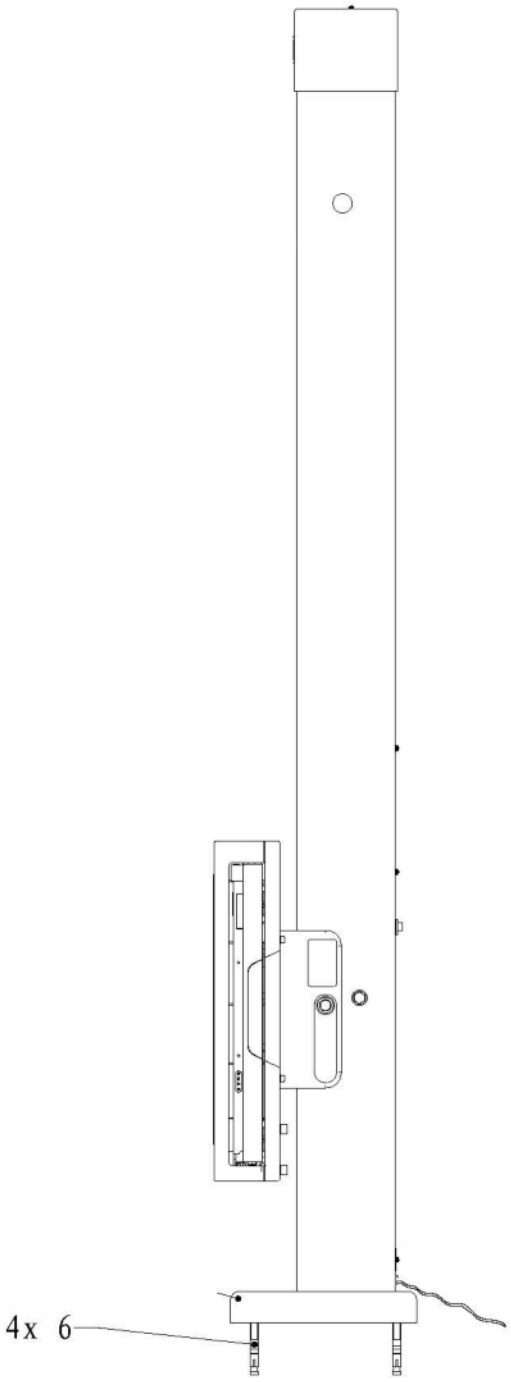
Figure 2-16 System Cabinet Wall-Mount Bracket

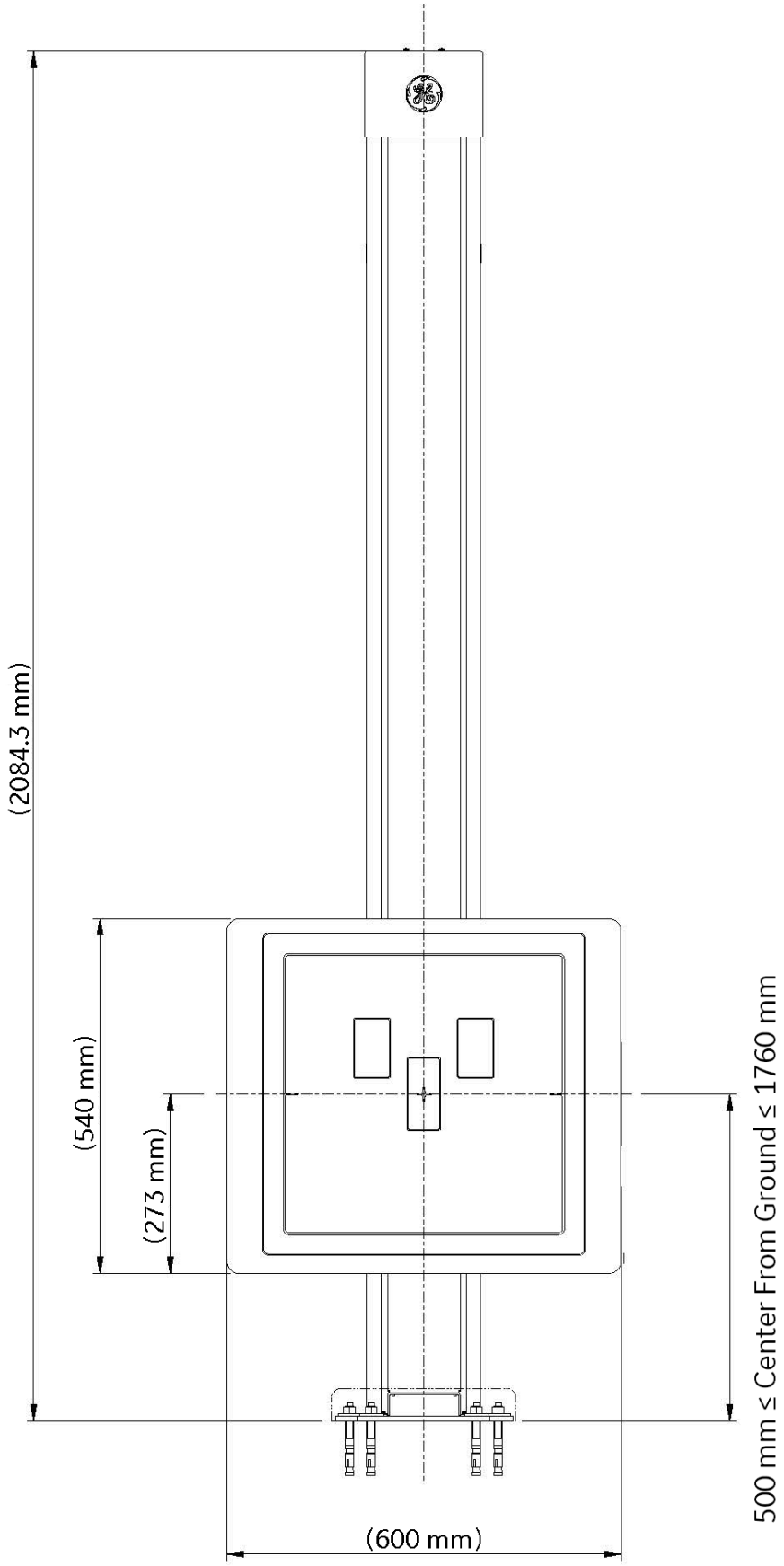


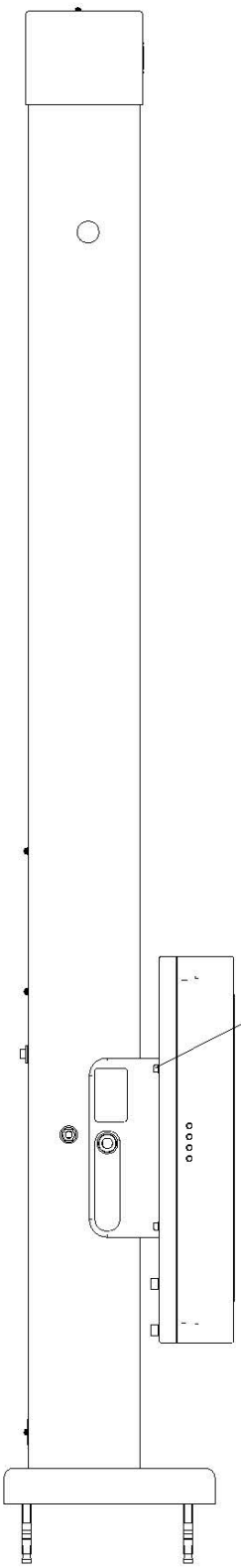
Recommended seismic mounting locations (where red lines go through).

2.2.5 Wall Stands

Figure 2-17 Wall Stand Dimensions

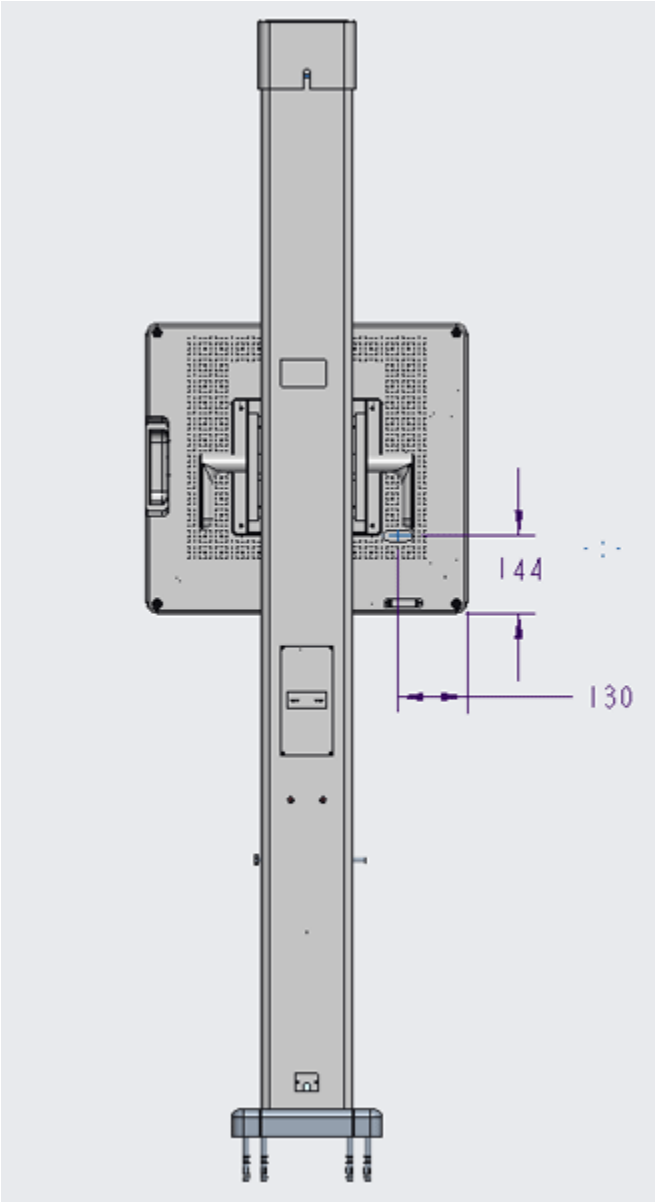


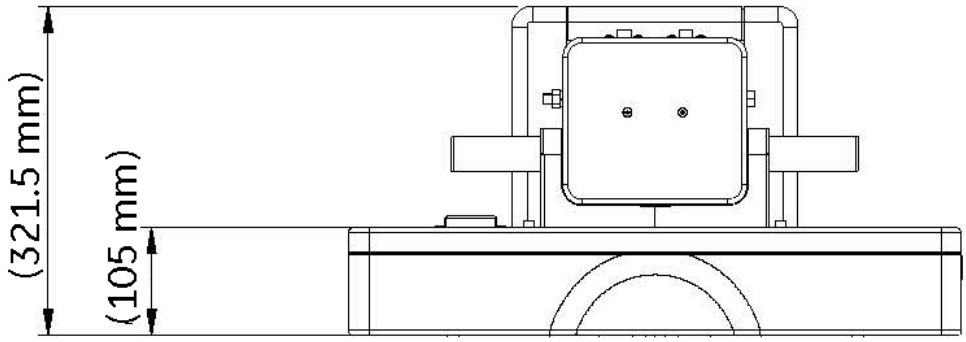

(2084.3 mm)
(540 mm)
(273 mm)
500 mm ≤ Center From Ground ≤ 1760 mm
(600 mm)



4x 3
4x 4

EC 1 Apply 6.9 Nm torque on screw M6 x 16.
Add paint mark (do not use red) for visual screw loose check.


144
130


(321.5 mm)
(105 mm)

2.2.6 UPS

Figure 2-18 UPS Dimensions (Optional)

NOTICE

If the UPS grounding impedance exceeds 0.2 Ohm, UPS will alarm with Site Wiring Fault and this could be disabled through UPS "User Settings", but not recommended.

2.2.7 Weights and Recommended Mounting Methods

Table 2-7 Product Physical Characteristics (weight)

Product or Component	Weight	Recommended Mounting Information
Operator Console: PC HP G4Z4	17.5 kg (38.6 lbs.)	Shelf or table mounted but not anchored.
Operator Console: Monitor	8.2 kg (18.1 lbs.)	Shelf or table mounted but not anchored.
Definium Pace Select Integrated Table	306 kg (674.61 lbs.)	Refer to 2.2.3 Integrated Table on page 41.
Definium Pace Select Manual Tube-stand	132 kg (291.01 lbs.)	Installed into table tracking rail.
Definium Pace Select Manual Wall Stand (with cover)	105 kg (231.5 lbs.)	Floor mount
System Cabinet	198 kg (436.5 lbs.)	5/16 in. or 8 mm (6) anchors to floor 5/16 in. or 8 mm (6) anchors to wall (Mounting hardware not provided by GEHC)
AP Assembly	0.6 kg (1.3 lbs.)	Wall mount
FlashPad Select Wireless Digital Flat Panel Detector	3.4 kg (7.5 lbs.)	

Table 2-7 Product Physical Characteristics (weight) (Table continued)

Product or Component	Weight	Recommended Mounting Information
UPS	11.5 kg (25.4 lbs.)	

2.3 Room Layout

2.3.1 Required Service Access Clearance

Allow appropriate space for service access of equipment. Illustrations are shown below indicating the required access space for servicing the equipment.

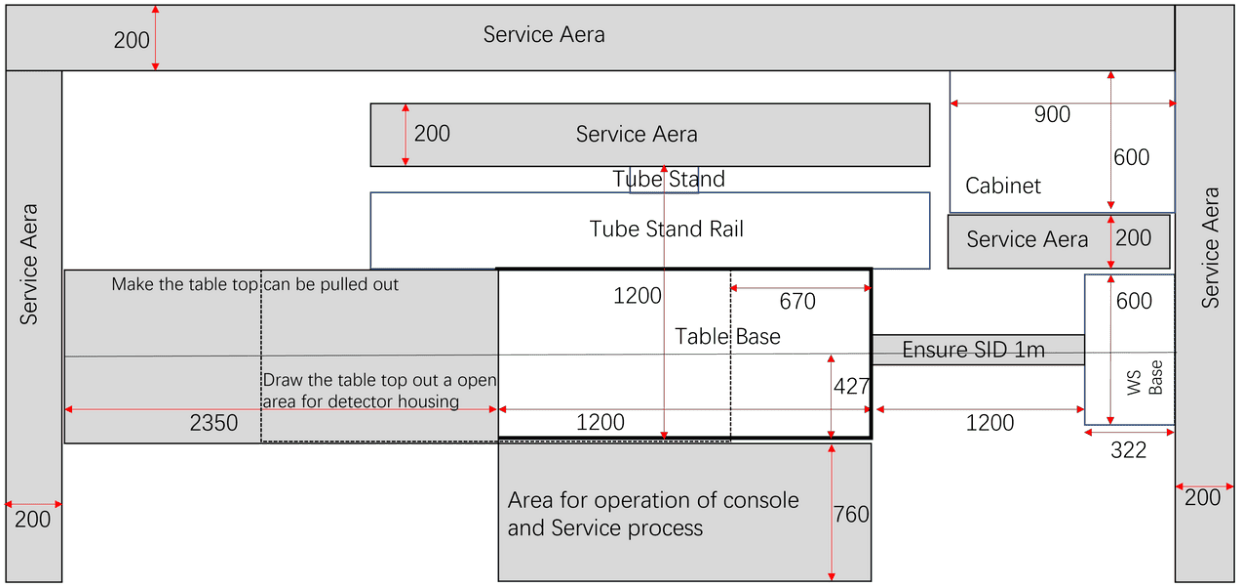


Figure 2-19 Recommended Service Access Clearance

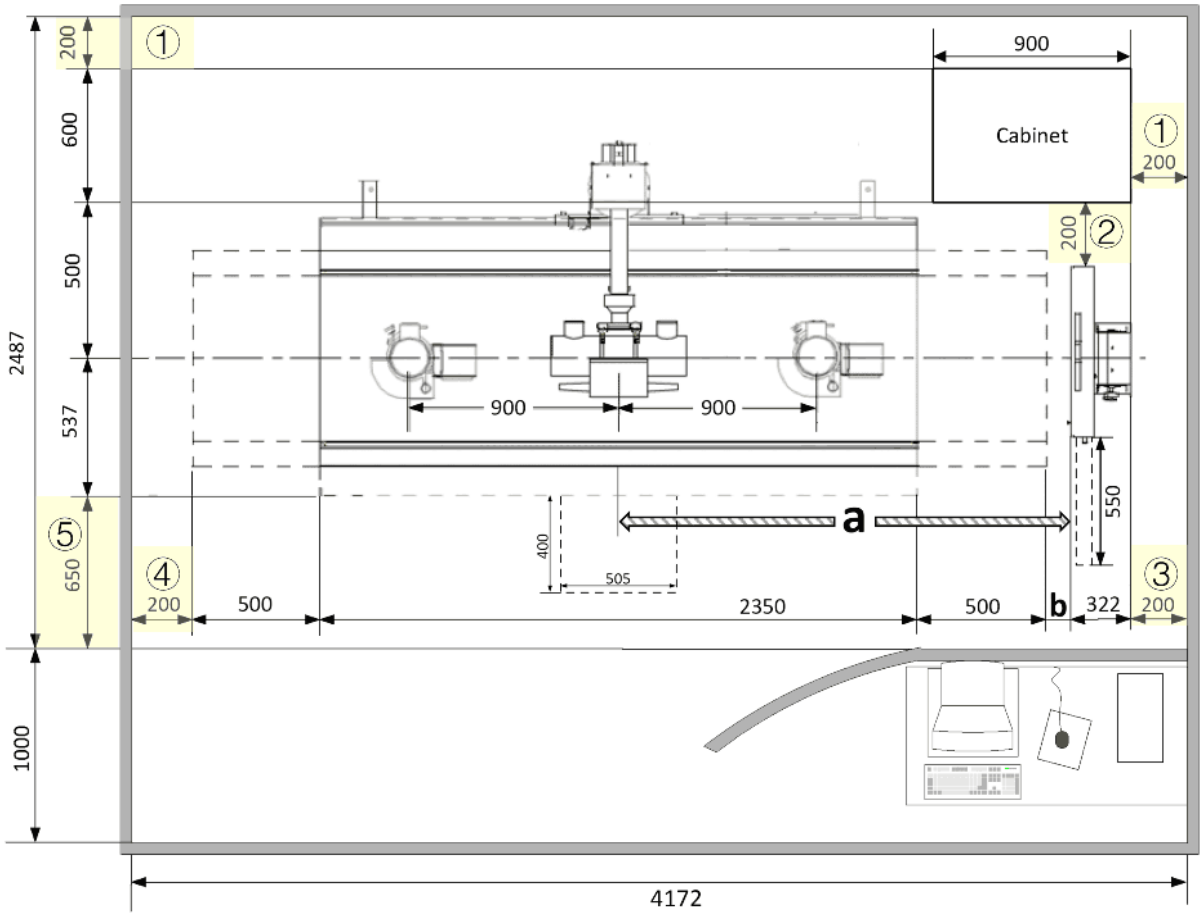


Table 2-8 Recommended Service Access Clearance

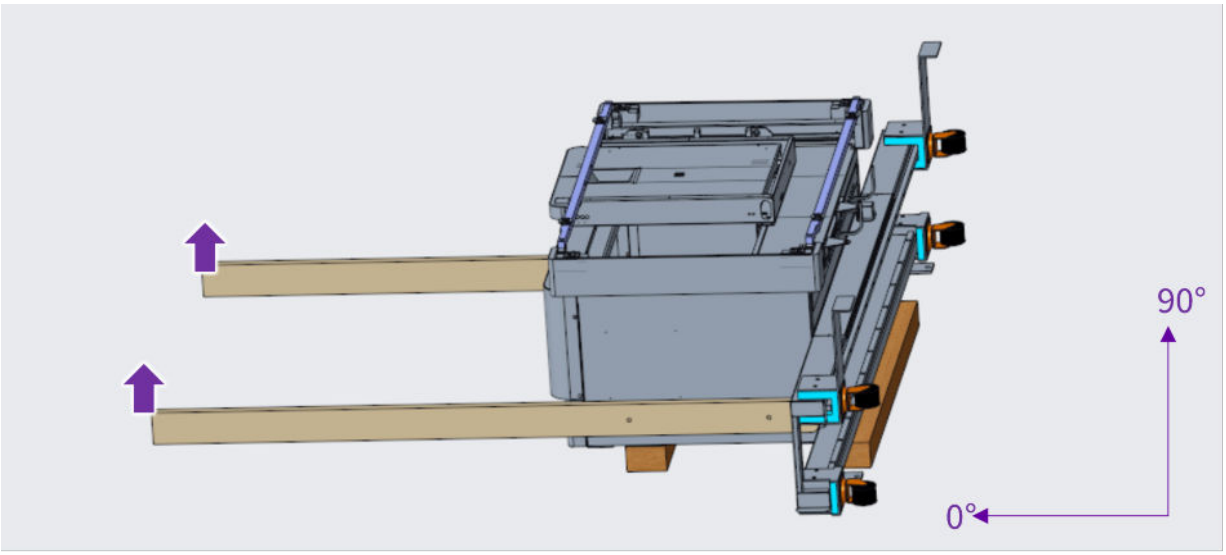
No.	Between		Recommended Clearance (mm)
①	Cabinet	Wall	200
②	Cabinet	Wall Stand	200
③	Wall Stand	Wall	200
④	Edge of table that slides to the limit on the long axis	Wall	200
⑤	Edge of table that slides to the limit on the short axis	Wall	650

Table Flip Dolly Scenario

If the width of the door on the site is between 87.7 cm (34.5 in.) and 101 cm (39.8 in.), table flip dolly will be used for the transportation, the required service access clearance is 3500 mm x 2376 mm.

3500 mm is the required length for the table flip from 90° to 0°. 2376 mm is required width for the table flip which is also the width of the tracking rail.

Figure 2-20 Table Flip Dolly



2.3.2 Radiation Production

Because X-ray equipment produces radiation, you may need to take special precautions or make special site modifications. The General Electric Company does not make recommendations regarding radiation protection. It is the purchaser's responsibility to consult a radiation physicist for advisement on radiation protection in X-ray rooms.

2.3.3 Clinical Access

Make sure that you plan the room with the following clinical access requirements:

- Provide emergency egress path out of the room for patient, operators, and service personal, per country and regional requirements.
- Clinicians at the patient table must be able to communicate with assistants in the control area.
- Operators in the control area must have easy access to the Operator Console.
- Consult customer on the number and location of nonelectrical lines (air, oxygen, vacuum, water, etc.) in the radiographic room.
- Ensure there is enough space between the table and the Wall Stand to perform standing ankles, knees, etc.

2.3.4 Peripheral Equipment

Consult hospital personnel regarding additional space requirements for the following types of hospital equipment:

- Storage Cabinet
- Sinks
- Oxygen Stations
- Monitoring Equipment
- Crash Cart

2.3.5 Room Layout Drawings

See the following figures for typical system room layouts.

The room layout shows the minimum room size that system needs, but customers should be required to prepare a room according with local regulatory requirements.

Cable bundle lengths would also affect the room layout. Refer to Figure 5-8 Available Cable Lengths Between Each Subsystem on page 79 for more information.

2.3.5.1 Typical Room Layout

Room Size Dimensions

Table 2-9 Room Size Dimensions (Full Function)

Catalog	Recommended Length	Recommended Width	Recommended Ceiling	Supported Function	
Full Function (with control room)	5.464 m	4.079 m	3.0 m	✓	180° tubestand rotation
				✓	Pull the whole table out (for maintenance)
				✓	SID1000 at a low position
				✓	Control Room
Full Function (without control room)	5.464 m	3.079 m	3.0 m	✓	180° tubestand rotation
				✓	Pull the whole table out (for maintenance)
				✓	SID1000 at a low position
				×	Control Room

Table 2-10 Room Size Dimensions (Typical)

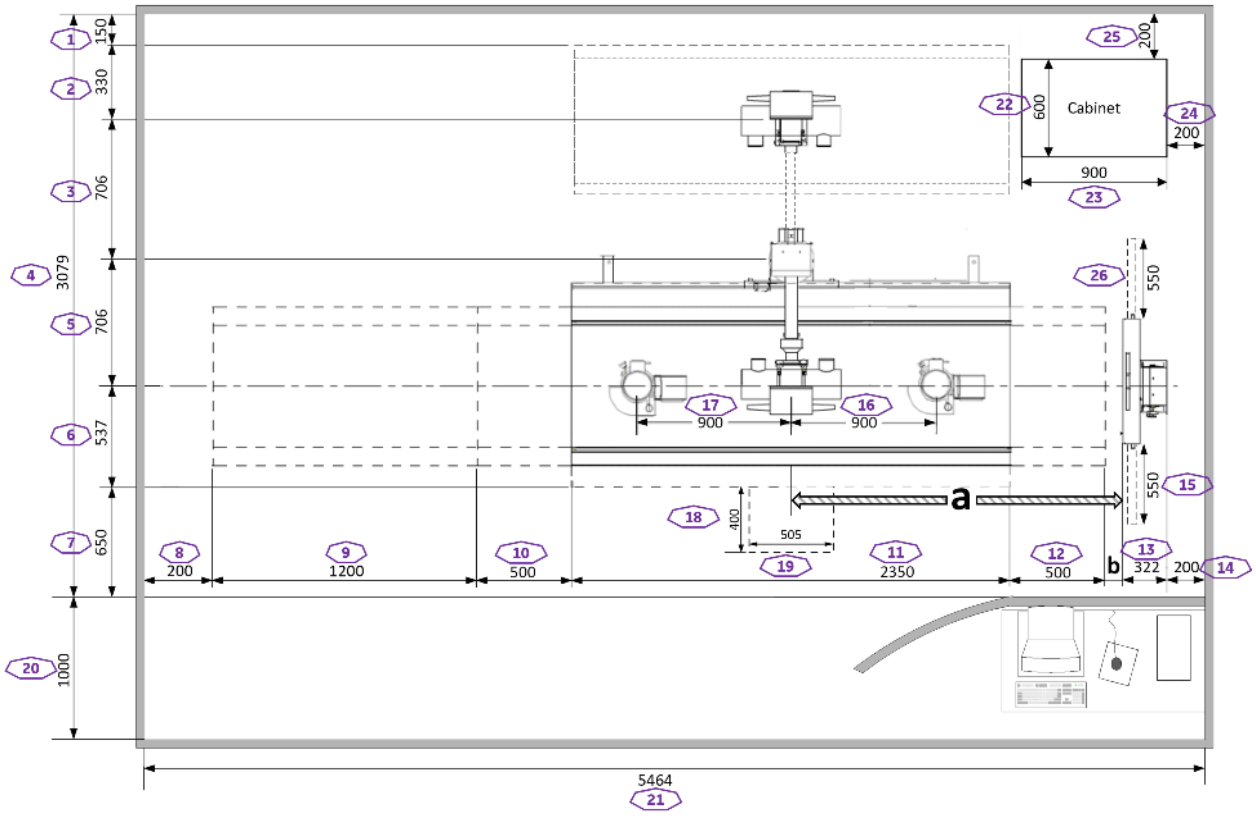
Catalog	Length		Width		Ceiling		Supported Function	
	Recommended	Min.	Recommended	Min.	Recommended	Min.		
Full Function (with control room)	6.0 m	5.372 m	6.0 m	4.079 m	3.0 m	2.6 m	✓	180° tubestand rotation
							✓	Pull the whole table out (for maintenance)
							N/A	SID1000 at a low position
							✓	Control Room
Full Function (without control room)	6.0 m	5.372 m	5.0 m	3.079 m	3.0 m	2.6 m	✓	180° tubestand rotation
							✓	Pull the whole table out (for maintenance)
							N/A	SID1000 at a low position
							×	Control Room

NOTE

If and only if the parameter **a** is equal to 1867 mm, the **SID1000 at a low position** function is available. For further information of how to calculate **a** and room dimensions, please see following sections **Room Layout Drawing** and **Calculate the Room Dimensions**

Room Layout Drawing

Figure 2-21 Room Layout with Full Function



No.	Dimension (mm)	Description	No.	Dimension (mm)	Description
1	150	Service Access Clearance	14	200	Service Access Clearance
2	330	Half width of stretcher table	15	550	The length for draw out Wall Stand housing. For right insertion Wall Stand.
3	706	Tubestand center to tube center	16	900	Tube movement range towards right side
4	3079	Width of room (With out control room)	17	900	Tube movement range towards left side
5	706	Tubestand center to tube center	18	400	The length for draw out table housing
6	537	Half width of tabletop plus half of tabletop floating range	19	505	The width of table housing
7	650	Service Access Clearance	20	1000	Width of control room

No.	Dimension (mm)	Description	No.	Dimension (mm)	Description
8	200	Service Access Clearance	21	5464	Length of room (Full Function)
9	1200	The slide distance for removing tabletop from the table base	22	600	Width of cabinet
10	500	Tabletop floating range towards left side	23	900	Length of cabinet
11	2350	Length of tabletop	24	200	Service Access Clearance
12	500	Tabletop floating range towards right side	25	200	Service Access Clearance
13	322	Distance from the housing surface to the back surface of column	26	550	The length for draw out Wall Stand housing. For left insertion Wall Stand.
a	1775 - 2667	The distance between housing surface of wall stand and midpoint of table. When a is 1867 mm, **SID1000 at a low position** function is available.	b	100 - 992	The distance between housing surface of wallstand and tabletop floating right limit

Calculate the Room Dimensions

- The total width of room is at least 3079 mm for Definium Pace Select system, and 1000 mm for control room.
- Wall stand OID is 33 mm.
- **a** is the distance between housing surface of wall stand and midpoint of table.
  This distance could be measured using the tape measure on collimator.
- Calculate Room Length.

  Length of room is **a** plus 3597 mm.

  Length of Room = a + 3597 mm

  - **Both SID1000 and SID1800**
    If SID needs to be adjusted between 1800 mm and 1000 mm, value of **a** should be:

    1775 mm ≤ **a** ≤ 1867 mm.
  - **Only SID1800**
    If only SID 1800 mm is needed, and SID 1000 mm will not be used, value of **a** should be:

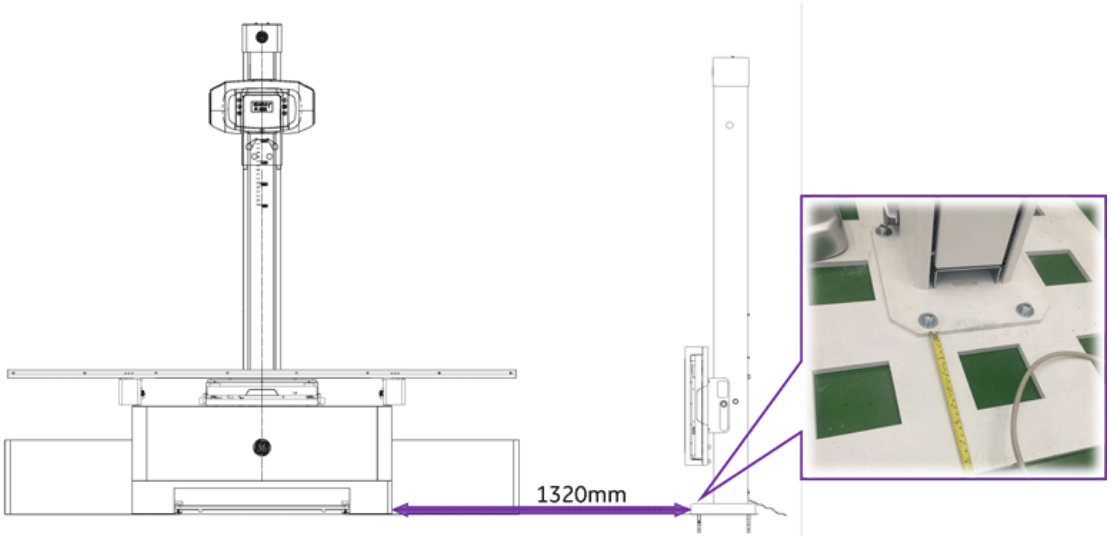
    1867 mm < **a** ≤ 2667 mm.
  - **Minimum**
    When **b** is 100 mm, **a** is 1775 mm.

    At this time, the room length reaches the minimum value: 5372 mm.
  - **SID1000 at a low position**
    In this situation, tube could move down lower than the table. This is a convenient position to check knee of standing patient. To lower the tube, table should move to the limit away from wall stand, and tube stand should move to the limit close to wall stand.

    When **b** is 192 mm, **a** is 1867 mm.

At this time, the room length is 5464 mm.

The distance from the bottom edge of the table base to the bottom plate edge of the wall stand is 1320 mm. This distance will help field engineers locate the wall stand quickly.



2.3.5.2 Minimum Room Layout with tube arm 180 degree rotation

Room Size Dimensions

Table 2-11 Minimum Room Size Dimension with tube arm 180 degree rotation

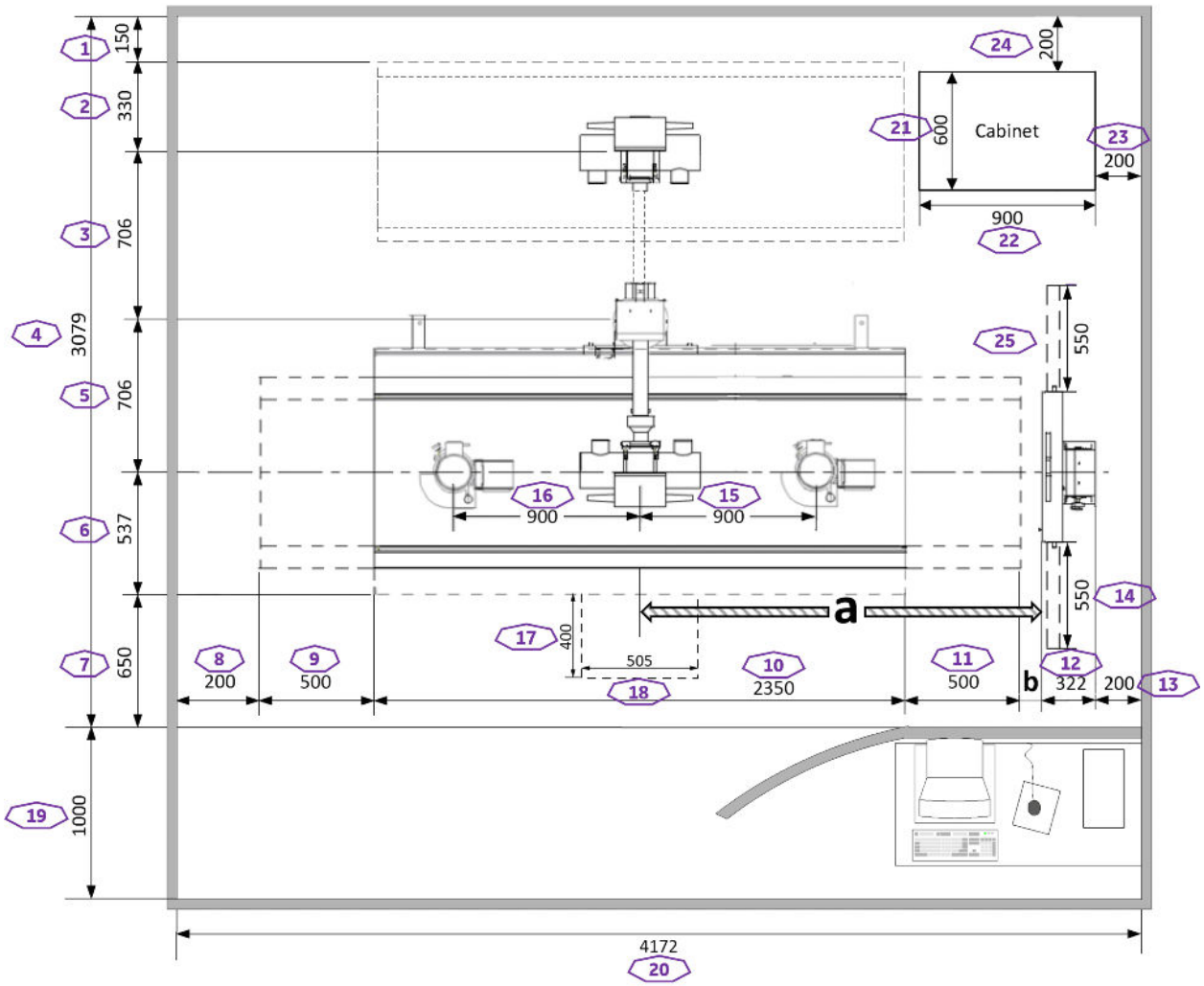
Catalog	Length		Width		Ceiling		Supported Function	
	Recom-mended	Min.	Recom-mended	Min.	Recom-mended	Min.		
Minimum room layout • with tube arm 180 degree rotation • with con-trol room	5.0 m	4.172 m	6.0 m	4.079 m	3.0 m	2.6 m	✓	180° tubestand rotation
							×	Pull the whole table out (for maintenance)
							N/A	SID1000 at a low position
							✓	Control Room
Minimum room layout • with tube arm 180 degree rotation • without control room	5.0 m	4.172 m	5.0 m	3.079 m	3.0 m	2.6 m	✓	180° tubestand rotation
							×	Pull the whole table out (for maintenance)
							N/A	SID1000 at a low position
							×	Control Room

NOTE

If and only if the parameter **a** is equal to 1867 mm, the **SID1000 at a low position** function is available. For further information of how to calculate **a** and room dimensions, please see following sections **Room Layout Drawing** and **Calculate the Room Dimensions**

Room Layout Drawing

Figure 2-22 Minimum Room layout with tube arm 180 degree rotation



No.	Dimension (mm)	Description	No.	Dimension (mm)	Description
1	150	Service Access Clearance	14	550	The length for draw out Wall Stand housing . For right insertion Wall Stand.
2	330	Half width of stretcher table	15	900	Tube movement range towards right side
3	706	Tubestand center to tube center	16	900	Tube movement range towards left side
4	3079	Width of room (With out control room)	17	400	The length for draw out table housing
5	706	Tubestand center to tube center	18	505	The width of table housing
6	537	Half width of tabletop plus half of tabletop floating range	19	1000	Width of control room

No.	Dimension (mm)	Description	No.	Dimension (mm)	Description
7	650	Service Access Clearance	20	5464	Length of room
8	200	Service Access Clearance	21	600	Width of cabinet
9	500	Tabletop floating range towards left side	22	900	Length of cabinet
10	2350	Length of tabletop	23	200	Service Access Clearance
11	500	Tabletop floating range towards right side	24	200	Service Access Clearance
12	322	Distance from the housing surface to the back surface of column	25	550	The length for draw out Wall Stand housing . For left insertion Wall Stand.
13	200	Service Access Clearance			
a	1775 - 2667	The distance between housing surface of wall stand and midpoint of table. When a is 1867 mm, **SID1000 at a low position** function is available.	b	100 - 992	The distance between housing surface of wallstand and tabletop floating right limit

Calculate the Room Dimensions

- In minimum room layout, table top could not be removed from table by being pulled out completely from the left. Table top could still be removed directly from the table.
- In this situation, tube stand can rotate to 180 degrees.
- The total width of room is at least 3079 mm for Definium Pace Select system, and 1000 mm for control room.
- Wall stand OID is 33 mm.
- **a** is the distance between housing surface of wall stand and midpoint of table.
  This distance could be measured using the tape measure on collimator.
- Calculate Room Length.

  Length of room is **a** plus 2397 mm.

  Length of Room = a + 2397 mm

  - **Both SID1000 and SID1800**
    If SID needs to be adjusted between 1800 mm and 1000 mm, value of **a** should be:

    1775 mm ≤ **a** ≤ 1867 mm
  - **Only SID1800**
    If only SID 1800 mm is needed, and SID 1000 mm will not be used, value of **a** should be:

    1867 mm < **a** ≤ 2667 mm
  - **Minimum**
    When **b** is 100 mm, **a** is 1775 mm.

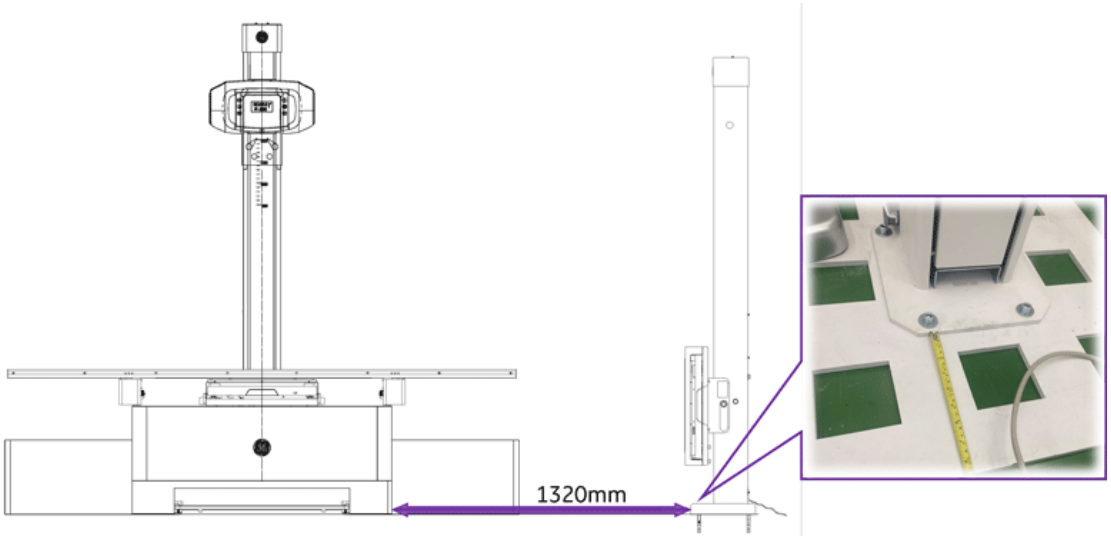
    At this time, the room length reaches the minimum value: 4172 mm

- **SID1000 at a low position**
  In this situation, tube could move down lower than the table. This is a convenient position to check knee of standing patient. To lower the tube, table should move to the limit away from wall stand, and tube stand should move to the limit close to wall stand.

  When **b** is 192 mm, **a** is 1867 mm.

  At this time, the room length is 4264 mm.

  The distance from the bottom edge of the table base to the bottom plate edge of the wall stand is 1320 mm. This distance will help field engineers locate the wall stand quickly.



2.3.5.3 Minimum Room Layout without tube arm 180 degree rotation

Room Size Dimensions

Table 2-12 Minimum Room Size Dimension without tube arm 180 degree rotation

Catalog	Length		Width		Ceiling		Supported Function	
	Recommended	Min.	Recommended	Min.	Recommended	Min.		
Minimum room layout • without tube arm 180 degree rotation • with control room	5.0 m	4.172 m	5.0 m	3.487 m	3.0 m	2.6 m	×	180° tubestand rotation
							×	Pull the whole table out (for maintenance)
							N/A	SID1000 at a low position
							✓	Control Room
Minimum room layout • without tube arm 180 degree rotation	5.0 m	4.172 m	4.0 m	2.487 m	3.0 m	2.6 m	×	180° tubestand rotation
							×	Pull the whole table out (for maintenance)
							N/A	SID1000 at a low position

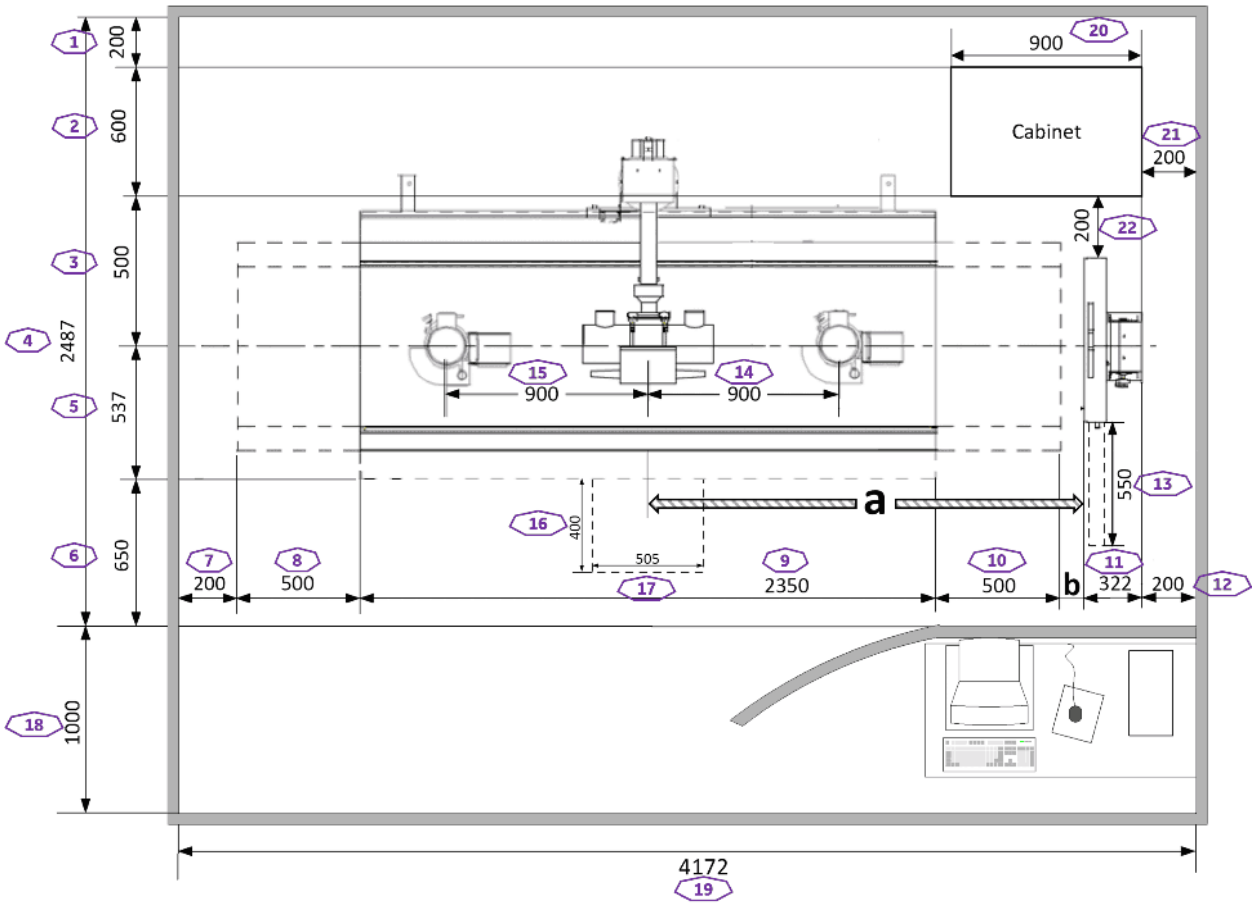
Table 2-12 Minimum Room Size Dimension without tube arm 180 degree rotation (Table continued)

Catalog	Length		Width		Ceiling		Supported Function	
	Recom-mended	Min.	Recom-mended	Min.	Recom-mended	Min.		
• without control room							×	Control Room

NOTE
If and only if the parameter **a** is equal to 1867 mm, the **SID1000 at a low position** function is available. For further information of how to calculate **a** and room dimensions, please see following sections **Room Layout Drawing** and **Calculate the Room Dimensions**

Room Layout Drawing

Figure 2-23 Minimum Room layout without tube arm 180 degree rotation



No.	Dimension (mm)	Description	No.	Dimension (mm)	Description
1	200	Service Access Clearance	12	200	Service Access Clearance

No.	Dimension (mm)	Description	No.	Dimension (mm)	Description
2	600	Width of cabinet	13	550	The length for draw out right side insertion Wall Stand housing.
3	500	Cabinet to the center of Wall-stand	14	900	Tube movement range towards right side
4	2487	Width of room (With out control room)	15	900	Tube movement range towards left side
5	537	Half width of tabletop plus half of tabletop floating range	16	400	The length for draw out table housing
6	650	Service Access Clearance	17	505	The width of table housing
7	200	Service Access Clearance	18	1000	Width of control room
8	500	Tabletop floating range towards left side	19	4172	Length of room
9	2350	Length of tabletop	20	900	Length of cabinet
10	500	Tabletop floating range towards right side	21	200	Service Access Clearance
11	322	Distance from the housing surface to the back surface of column	22	200	Service Access Clearance **NOTE** In this scene, wall stand and cabinet are relatively close. If the wall stand tray is a left-hand insert configuration, the tray cannot be fully pulled out at a lower position. To fully extract the wall stand tray out, move the housing to a higher position than the cabinet.
a	1775 - 2667	The distance between housing surface of wall stand and mid-point of table. When a is 1867 mm, **SID1000 at a low position** function is available.	b	100 - 992	The distance between housing surface of wallstand and tabletop floating right limit

Calculate the Room Dimensions

- In minimum room layout, table top could not be removed from table by being pulled out completely from the left. Table top could still be removed directly from the table.
- In this situation, tube stand can not rotate to 180 degrees.
- The total width of room is at least 2487 mm for Definium Pace Select system, and 1000 mm for control room.

- Wall stand OID is 33 mm.
- **a** is the distance between housing surface of wall stand and midpoint of table.
  This distance could be measured using the tape measure on collimator.
- Calculate Room Length.

  Length of room is **a** plus 2397 mm.

  Length of Room = a + 2397 mm

  - **Both SID1000 and SID1800**
    If SID needs to be adjusted between 1800 mm and 1000 mm, value of **a** should be:

    1775 mm ≤ **a** ≤ 1867 mm
  - **Only SID1800**
    If only SID 1800 mm is needed, and SID 1000 mm will not be used, value of **a** should be:

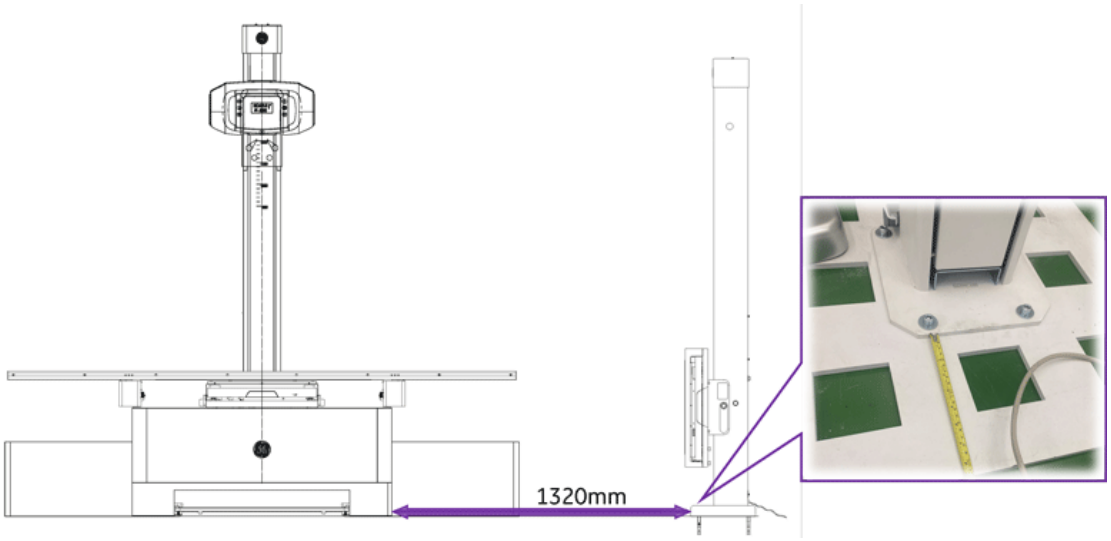
    1867 mm ＜ **a** ≤ 2667 mm
  - **Minimum**
    When **b** is 100 mm, **a** is 1775 mm.

    At this time, the room length reaches the minimum value: 4172 mm
  - **SID1000 at a low position**
    In this situation, tube could move down lower than the table. This is a convenient position to check knee of standing patient. To lower the tube, table should move to the limit away from wall stand, and tube stand should move to the limit close to wall stand.

    When **b** is 192 mm, **a** is 1867 mm.

    At this time, the room length is 4264 mm.

    The distance from the bottom edge of the table base to the bottom plate edge of the wall stand is 1320 mm. This distance will help field engineers locate the wall stand quickly.



3 Special Construction

3.1 Radiation Protection

Because X-ray equipment produces radiation, special precautions may need to be taken or special site modifications may be required. The General Electric Company does not make recommendations regarding radiation protection. It is the purchaser's responsibility to consult a radiation physicist for advice on radiation protection in X-ray rooms.

4 HVAC-Environmental Requirements

This section provides information for the environmental requirements for the storage of the system.

NOTICE

Storage values only refer to equipment that is still in shipping containers.

The operating environment is the environmental requirements for the normal use of the device during the expected service life. It does not apply to the short-term manufacturing testing and the like.

4.1 Relative Humidit and Temperature

Product or Component	Relative Humidity (Non-Condensing)		Temperature	
	IN-USE		IN-USE	
	Min	Max	Min	Max
Detector	30%	75%	15° C (59° F)	32° C (89.6° F)
Wall Stand	30%	75%	15° C (59° F)	32° C (89.6° F)
Table (TBL)	30%	75%	15° C (59° F)	32° C (89.6° F)
Tube Stand	30%	75%	15° C (59° F)	32° C (89.6° F)
System Cabinet	30%	75%	15° C (59° F)	32° C (89.6° F)
X-ray Tube	30%	75%	15° C (59° F)	32° C (89.6° F)
Tube-head Console	30%	75%	15° C (59° F)	32° C (89.6° F)
PC	30%	75%	15° C (59° F)	32° C (89.6° F)
Monitor	30%	75%	15° C (59° F)	32° C (89.6° F)

4.2 Altitude and Atmospheric Pressure

Table 4-1 Environmental Requirements - (Altitude & Atmospheric Pressure)

Product or Component	Altitude				Atmospheric Pressure			
	In-Use		Storage		In-Use		Storage	
	Min	Max	Min	Max	Min	Max	Min	Max
Total System Limits	-30 m (-98.43 ft)	3000 m (9843 ft)	-30 m (-98.43 ft)	3000 m (9843 ft)	70 kPa	106 kPa	70 kPa	106 kPa

4.3 Non-operating Environmental

4.3.1 Temperature

The non-operating ambient temperature range of the packaged system (except detector) shall be -20 degrees centigrade to +60 degrees centigrade.

The transportation non-operating ambient temperature range of the packaged detector shall be -20 to 55 degrees centigrade and for exceptions the shipping containers should be labeled.

4.3.2 Humidity

The non-operating ambient humidity range of the packaged system shall be 20% to 85% relative humidity, non-condensing.

4.3.3 Atmospheric Pressure

The non-operating ambient atmospheric pressure range of the packaged system shall be 106 kPa down to 70kPa.

4.3.4 Altitude

The non-operating altitude range of the packaged system shall be -30 meters up to 3000 meters to support transport at high altitude and for exceptions the shipping containers should be labeled.

4.4 Heat Output

The standby and in-use heat output of each system component are provided below.

Table 4-2 Heat Outputs

System Power Consumption	Heat Output	
	Standby	In-Use
Wall Stand	43.7 W (149.017 BTU/hr)	57.5 W (196.075 BTU/hr)
Table		135.7 W (462.737 BTU/hr)
Tube Stand		66.7 W (227.447 BTU/hr)
PC & Monitor	67.2 W (229.152 BTU/hr)	136.8 W (466.488 BTU/hr)
AP	16.8 W (57.288 BTU/hr)	16.8 W (57.288 BTU/hr)
Cabinet	723.7 W (2467.817 BTU/hr)	723.7 W (2467.817 BTU/hr)
Detector charger	N/A	72.6 W (247.566 BTU/hr)
Total System Output	1.0 kW (3412 BTU/hr)	2.2 kW (7507 BTU/hr)

4.5 EMC Requirement

Refer to 5649147-8EN Service Manual Electromagnetic Compatibility chapter.

5 Electrical

5.1 System Facility Power and Grounds

5.1.1 Introduction

The purpose of this section is to ensure that the product is properly powered and grounded, thus ensuring the proper operation of the product installed. The information in this section should be adhered to, unless there are written deviations approved by GE Healthcare.

This section gives the sizes and procedures on how to power and ground your system. If these power and grounding instructions are not adhered to, proper operation cannot be guaranteed. Any cost associated and found to be a result of non-conformity, as stated in this section, may result in additional cost charged back to the institution and/or their contractor.

NOTICE

All system and sub-system power connections shall be made only to power outlets that are connected to the system.

5.1.2 Power Quality

The electrical power, from its origination to the system, must adhere to the wire size and transformer sizes as prescribed in the installation drawings. The feeder voltage-drops, as well as the supplying power, must be within the given parameters. Sizing for feeder is usually calculated for a maximum of 2% voltage drop at the minimum voltage range. The actual feeder sizing may vary from the installation drawing for a facilities voltage.

Calculate feeder losses before you begin. Total feeder losses must be calculated to ensure that the losses are less than those specified in the installation drawings. Calculating the recommended minimum transformer sizing for feeding a system ensures the transformer losses are less than half of the maximum regulation for the system.

Regulation is the calculated voltage losses for the entire power distribution system (No-Load Voltage minus Full-Load Voltage) divided by the no-load voltage minus the system losses (Full- Load Voltage):

$$\text{Regulation} = \frac{\text{NoLoadVoltage - FullLoadVoltage}}{\text{FullLoadVoltage}} \times 100\%$$

In the X-ray room, there must be a lockable facility power disconnect. It must be installed electrically before the equipment, for the purpose of locking out the power. This must be done before service to the high voltage system is performed.

5.1.3 Electrical Grounds

5.1.3.1 System and Facility Grounds

The ground for this system must originate at the system's power source and be continuous (i.e., transformer or first access point of power into a facility, and be continuous to the system power disconnect in the room). Ground connection at the power source must be at the grounding point of the "Neutral/Ground" if a "Wye" transformer is used, or typical grounding points of a separately derived system. In the case of an external facility, it must be bonded to the facility ground point at the electrical service entrance.

The "system" ground can be spliced using "High Compression Fittings" but must be properly terminated at each distribution panel it passes through. When it is terminated, it must be connected into an approved grounding block. Incoming and outgoing grounds must terminate at this same grounding block. Grounds must only be terminated to approved grounding blocks. Grounds must never connect directly to the panels, frames or other materials in a cabinet or distribution panel.

5.1.3.2 Recommended Ground Wire Sizes

The ground wire impedance from the system disconnect (including the ground rod) measured to earth, must not exceed 2 ohms (as measured by one of the applicable techniques described in Section 4 of ANSI/IEEE Standard 142 - 1982).

NOTE
For general system grounding requirements and information on establishing an equipotential grounding system, refer to Defenium Pace Select Service Manual, Section Grounding Resistance Tests and Leakage Current Measurements.

5.2 Electrical Requirements

5.2.1 Generator Electrical Requirements

All system components obtain their power from the Power Distribution Unit (PDU) in the System Cabinet. **Providing power and ground wires to the PDU are the responsibility of the customer.** As an aid, wire sizes for various lengths of the power supply cable are shown in the following tables.

NOTE
The length of stripped wires should be longer than 25 mm (1in), and tinned.

NOTE
Shunt trip circuit breaker required. The main circuit breaker supplied by the customer must be sized in accordance with local regulations. The Customer's Mains Distribution Panel/Power Distribution Box must supply the LOTO capability.

Table 5-1 JEDI Generator Power Specifications

Input	380/400/415/440/460/480 VAC Wye 3-Phase and ground without neutral
Daily Voltage variations	+/- 10% (VAC) In this range, the generator will operate without any de-rating in accuracy
Nominal line frequency (Hz)	50 Hz / 60 Hz
Daily frequency variation (Hz)	+/- 3 Hz

Table 5-1 JEDI Generator Power Specifications (Table continued)

<table>
<tr><td>Line Impedance</td><td>The apparent line impedance guaranteed by the customer should be equal or less than the values indicated below, according to the voltage value and the commercial power of the system.
<table>
<tr><th>Voltage Range (V)</th><th colspan="2">Line Impedance (ohms)</th></tr>
<tr><th>3 phase</th><th>50 kW</th><th>65 kW</th></tr>
<tr><td>380</td><td>0.15</td><td>0.118</td></tr>
<tr><td>400</td><td>0.16</td><td>0.131</td></tr>
<tr><td>415</td><td>0.18</td><td>0.138</td></tr>
<tr><td>440</td><td>0.20</td><td>0.154</td></tr>
<tr><td>480</td><td>0.24</td><td>0.185</td></tr>
</table>
NOTE
400-480 VAC impedance values are based on IEC 601-2-7 standard. Values are interpolated from values in standard.</td></tr>
<tr><td>Inrush current</td><td>1000 Amps. Genetrator needs a 165Amps and the fuse is a part of PDU. 1000Amps is rating at 3 phase at system I/P, for generator 1000Amps current may not be required. The max current raquired for generator is during start-up ((capacitor changing) and during peak power exposure for long durationns.</td></tr>
<tr><td>HV cable type</td><td>USA: 22mm DSI (<= 165 pF/m)
HV cable connector = Federal standard</td></tr>
<tr><td>Ground Wire</td><td>Same as power cable</td></tr>
</table>

5.2.2 System Wire Sizes & kVA Load Characteristics

- Calculations based upon nominal voltage, wire size in AWG. To convert to mm^2, refer to Table 5-2 AWG Wire Size Conversion to mm^2 on page 70.
- Recommended feeder sizes from distribution transformer to the power cabinet.
- Neutral must be terminated inside the main disconnect panel and not at any GE cabinet.
- The grounding conductor will be of same size as the feeder wires. This ground will run from equipment back to the facility power source / main grounding point and always travel in the same conduit with the feeders and neutral if have.

Table 5-2 AWG Wire Size Conversion to mm^2

American Wire Gauge (AWG)	Diameter (Inches)	Diameter (mm)	Cross Sectional Area (mm^2)
6	0.1620	4.11	13.30
5	0.1819	4.62	16.77
4	0.2043	5.19	21.15
3	0.2294	5.83	26.65
2	0.2576	6.54	33.61
1	0.2893	7.35	42.39
1/0	0.3249	8.25	53.46

Table 5-2 AWG Wire Size Conversion to mm^2 (Table continued)

American Wire Gauge (AWG)	Diameter (Inches)	Diameter (mm)	Cross Sectional Area (mm^2)
2/0	0.3648	9.27	67.40
3/0	0.4096	10.40	84.97
4/0	0.46	11.68	107.16
250M	0.575	14.6	126.68
300M	0.630	16.0	152.0
350M	0.681	17.3	177.35
400M	0.728	18.49	202.68

5.2.2.1 JEDI Generator 3-Phase 50 kW System - Minimum Wire Size

Wire Run Length	Input Voltage (VAC)					
	380	400	420	440	460	480
	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
15 m (50 ft.)	*6	*6	*6	*6	*6	*6
30 m (100 ft.)	5	5	*6	*6	*6	*6
46 m (150 ft.)	4	4	4	4	4	4
61 m (200 ft.)	3	4	4	4	4	4
77 m (250 ft.)	2	2	2	3	3	4
92 m (300 ft.)	1/0	1	1	2	2	2
107 m (350 ft.)	2/0	2/0	1/0	1	1	1
122 m (400 ft.)	3/0	2/0	2/0	1/0	1/0	1/0
138 m (450 ft.)	4/0	3/0	3/0	2/0	2/0	1/0
* Minimum wire size for circuit breaker, based on recommended overcurrent protection.						

5.2.2.2 kVA Load Characteristics 50KW

Phase	Three Phase					
Nominal Line Voltage (Vac)	380	400	420	440	460	480
Voltage Range (Vac)	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Momentary Line Current (Amp)	110	105	100	95	92	88
Continuous Line Current (Amp)	7	6.7	6.2	6	5.7	5.5
Power Demand (kVA)	70	70	70	70	70	70
Frequency	47/53Hz and 57/63Hz					

5.2.2.3 JEDI Generator 3-Phase 65kW System - Minimum Wire Size

Wire Run Length	Input Voltage (VAC)					
	380	400	420	440	460	480
	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
15 m (50 ft.)	*4	*4	*4	*4	*4	*4
30 m (100 ft.)	3	*4	*4	*4	*4	*4
46 m (150 ft.)	2	2	2	3	3	*4
61 m (200 ft.)	1/0	1	1	2	2	2
77 m (250 ft.)	2/0	2/0	1/0	1	1	1
92 m (300 ft.)	3/0	2/0	2/0	1/0	1/0	1/0
107 m (350 ft.)	4/0	3/0	3/0	2/0	2/0	1/0
122 m (400 ft.)	250M	4/0	4/0	3/0	3/0	2/0
138 m (450 ft.)	300M	250M	4/0	4/0	3/0	3/0
* minimum wire size for circuit breaker, based on recommended overcurrent protection.						

5.2.2.4 kVA Load Characteristics 65KW

Phase	Three Phase					
Nominal Line Voltage (Vac)	380	400	420	440	460	480
VoltageRange (Vac)	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Momentary Line Current (Amp)	147	140	133	127	122	117
Continuous Line Current (Amp)	7	6.7	6.2	6	5.7	5.5
Power Demand (kVA)	97	97	97	97	97	97
Frequency	47/53Hzand 57/63Hz					

5.2.3 Recommended Wall "Circuit-Breaker" Ratings

Table 5-3 Wall Breaker Parameter (Theoretical Current Values)

Power / Voltage	50 kW	65 kW
380 V	55A / 600 V	74A / 600 V
400 V	52A / 600 V	70A / 600 V
415 V	50A/ 600 V	67A / 600 V
440 V	47A / 600 V	64A / 600 V
460 V	45A/ 600 V	61A / 600 V
480 V	43A / 600 V	59A/ 600 V

5.2.4 Wiring Electrical Power and Disconnects

Thissection provides additional data regarding power circuits the customer must provide, and internal electrical circuits necessary to supply the correct power to the system. Figure 5-1 Room Power Supply (refer to Table 5-4 for Legend) on page 73 shows the room power supply installed.

5.2.4.1 Room Power Supply

Figure 5-1 Room Power Supply (refer to Table 5-4 for Legend)

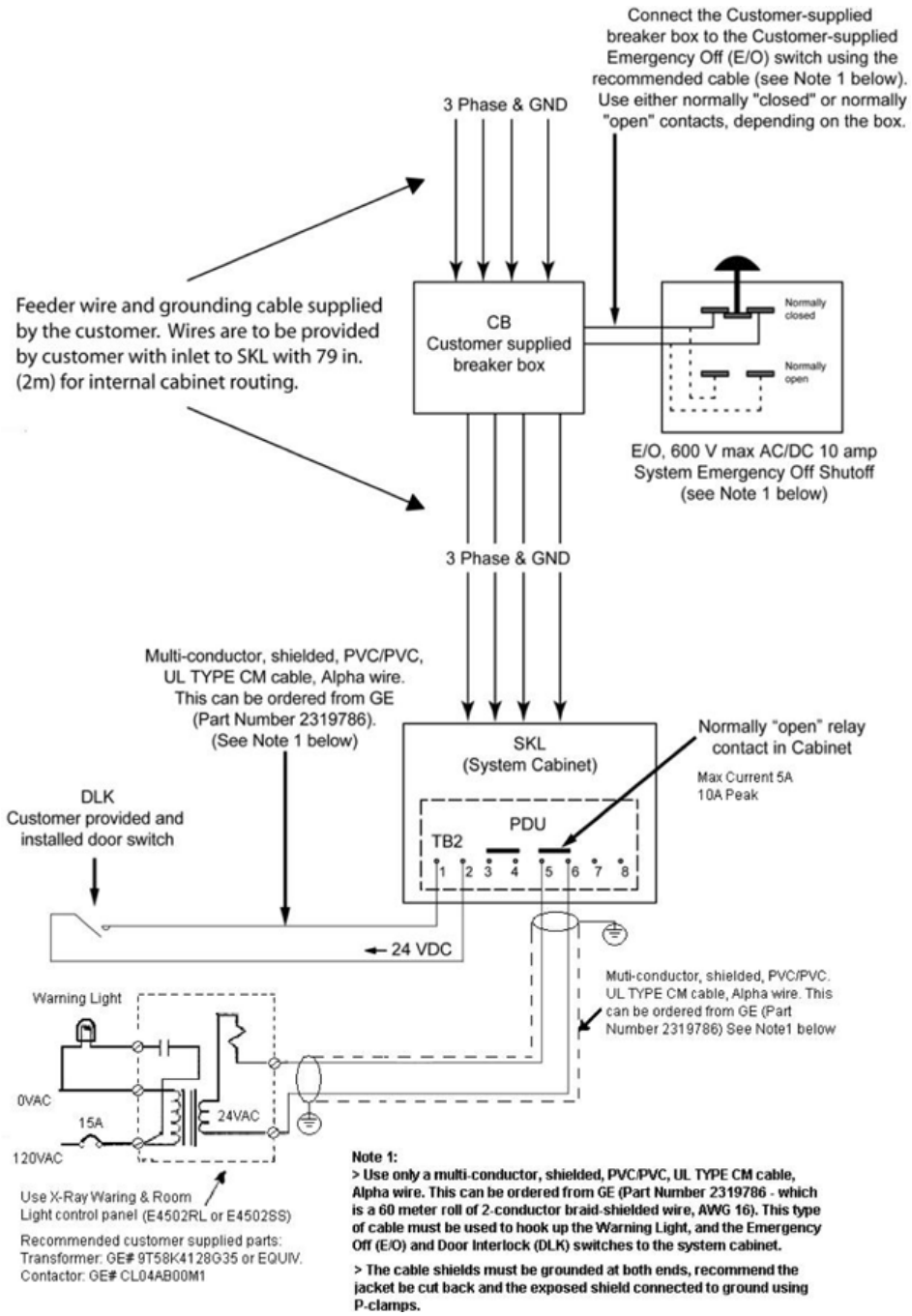


Table 5-4 Legend for Illustration above

United States Key	Description
Feeder Wires and Grounding Cable	Feeder wire and grounding cable supplied by the customer. Wires are to be provided by customer with inlet to SKL with 2 meters for internal cabinet routing).
E/O(see Note below)	Emergency Off switch located near room access door. The switch is supplied by the Hospital. Therecommended distance above the floor is 1.5 meters. Useonly a multi-conductor, shielded cable to connect to System Cabinet.
XRL	Yellow X-ray emission indicator lamp above the room access door. 220 V in Eu- rope/120 V in USA with 25 W max. bulb (per local regulations). Wires and light fixtures supplied by customer.
DLK (see Note below)	Open-door detector (per local regulations). SKL provides 24 VDC.
CB	Circuit breaker with remote trip (shunt) capabilities supplied by customer.

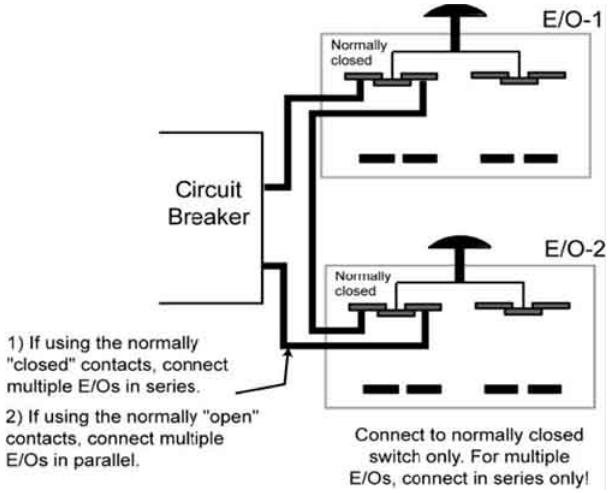
NOTE

Use only a multi-conductor, shielded, PVC/PVC, UL TYPE CM cable, Alpha wire. The cable shield must be grounded at both ends, with the system cabinet grounding, avoid make wireless transmission unintelligible by causing interference.

5.2.4.2 Multiple Emergency "OFF" Switches

The facility designer determines the quantity and locations of the Emergency OFF (E/O) switches. GE recommends placing at least one Emergency OFF switch near the doorway of every room in the system scan suite.

Figure 5-2 Wiring Multiple "Emergency OFF" (E/O) Switches



5.3 Routing Cables

5.3.1 General

These wires must be kept separated from each other:

- High voltage and power cables must be separated from other cables

- Separate conduits must be used for power and signal wires
  Use a separate trough in the duct system, or use a separate conduit.

  Minimize cable length between the line disconnect and the System Cabinet power unit to reduce voltage regulation problems and wiring costs.

5.3.1.1 Electrical Ducts (Recommended)

It is important that electrical ducts have separate compartments for power and signal wires. These wires must be kept separated from each other for proper system operation.

Electrical ducts have advantages, when used with a single room or two adjacent rooms. Electrical ducts combine cabling in a neat and functional appearance, with accessibility and room for expansion.

5.3.1.2 Conduit

If conduit is used make sure the conduit is large enough to pull the cable and connector through with all the other cables all ready in the conduit.

The use of conduit is recommended for cables running overhead between rooms, especially when a diagonal run provides the shortest cable path.

5.3.2 Power Distribution

The system power distribution consists of two major components that must either be customer supplied or GE Healthcare supplied. These are:

- Feeder power from Hospital distribution center to the System Cabinet load power unit (SKL).
- Feeder power must be provided via a WYE transformer only with dedicated ground. Neutral is not used.
- Power distribution from the System Cabinet load power unit (SKL) to all the components in the system room.

Usually the feeder power from the Hospital distribution center is customer supplied and the power distribution within the system is supplied by GE Healthcare.

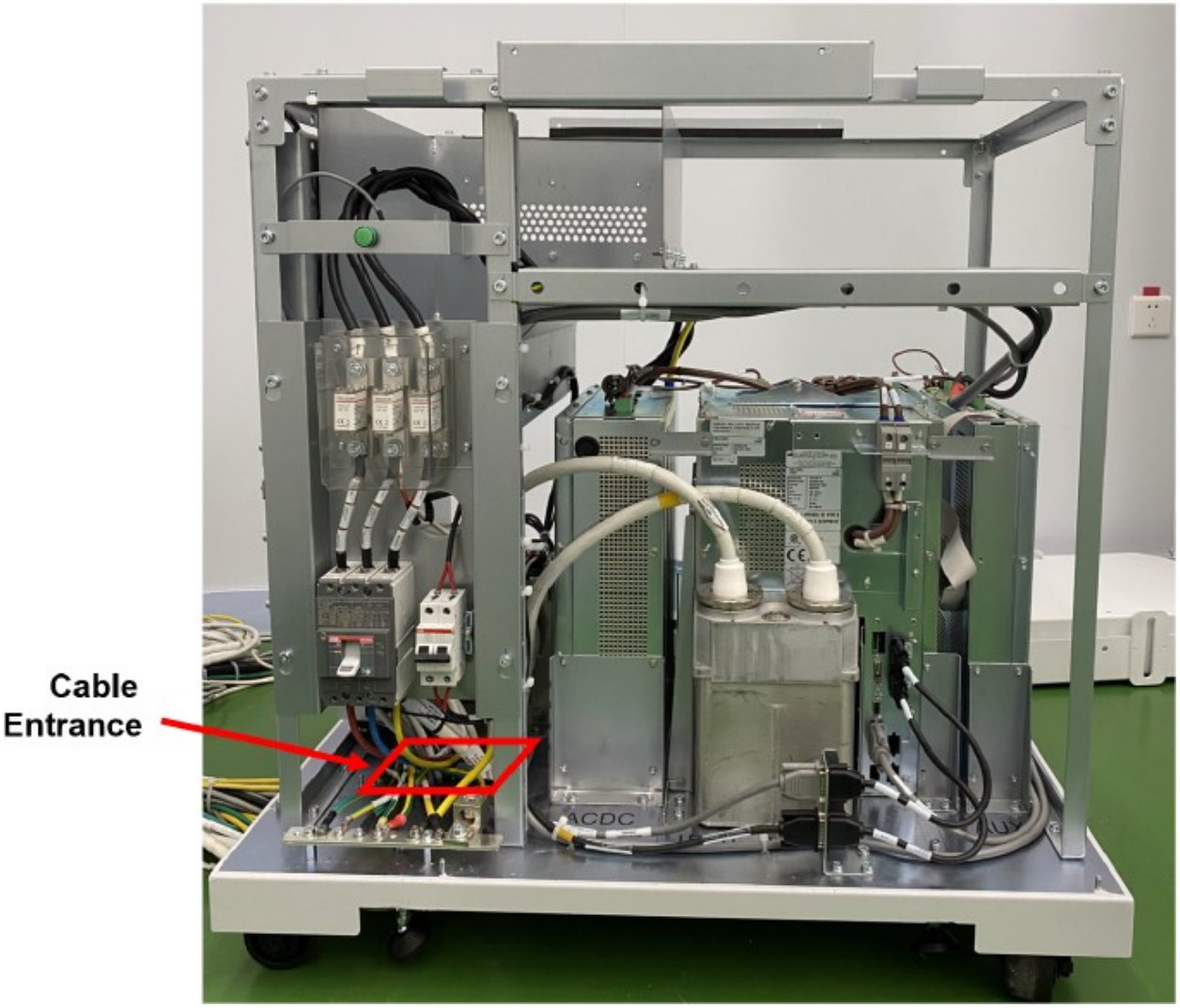
5.4 Light Specification

The monitor screen is adjusted for an optimum ambient light level of 50 lux.

5.5 Dimensioned Figures and Drawings

5.5.1 System Equipment Cable Entrance

Figure 5-3 System Cabinet Cable Entrances



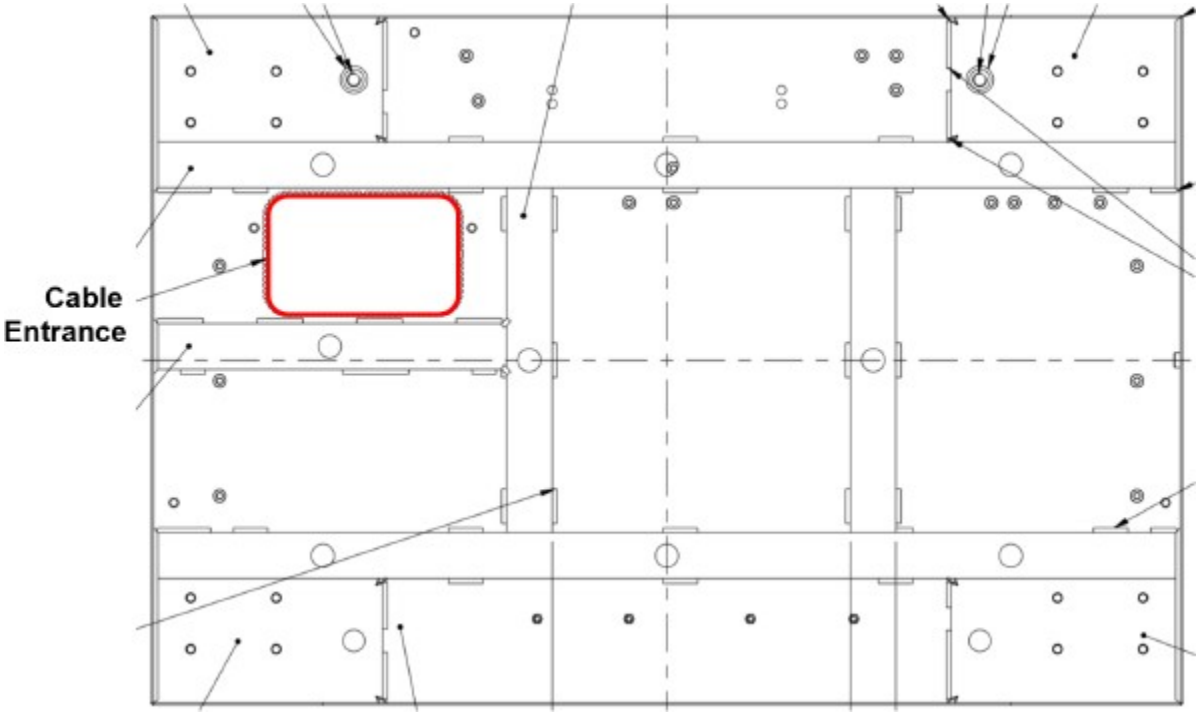


Figure 5-4 Cable Entrance Behind the Wall Stand Housing

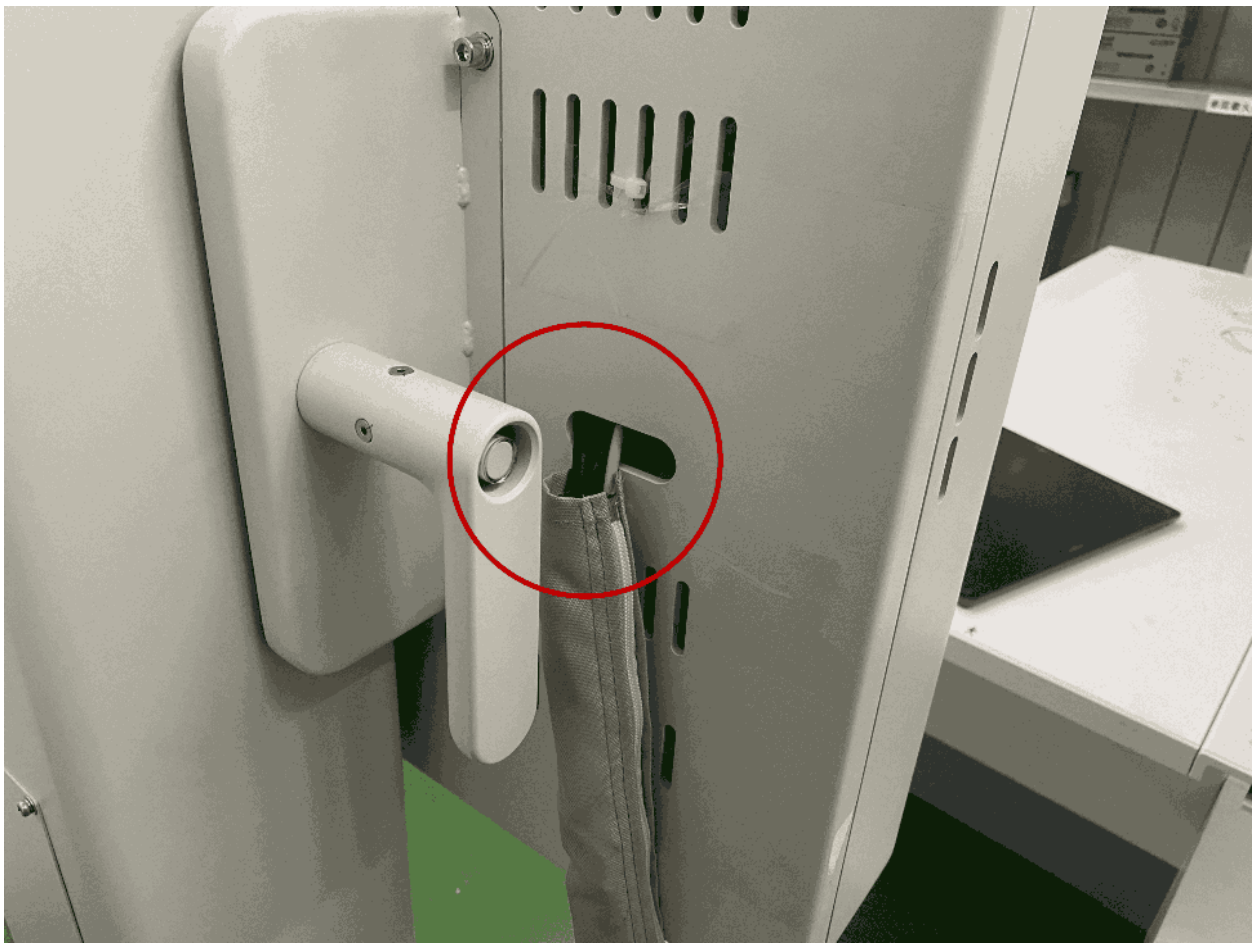
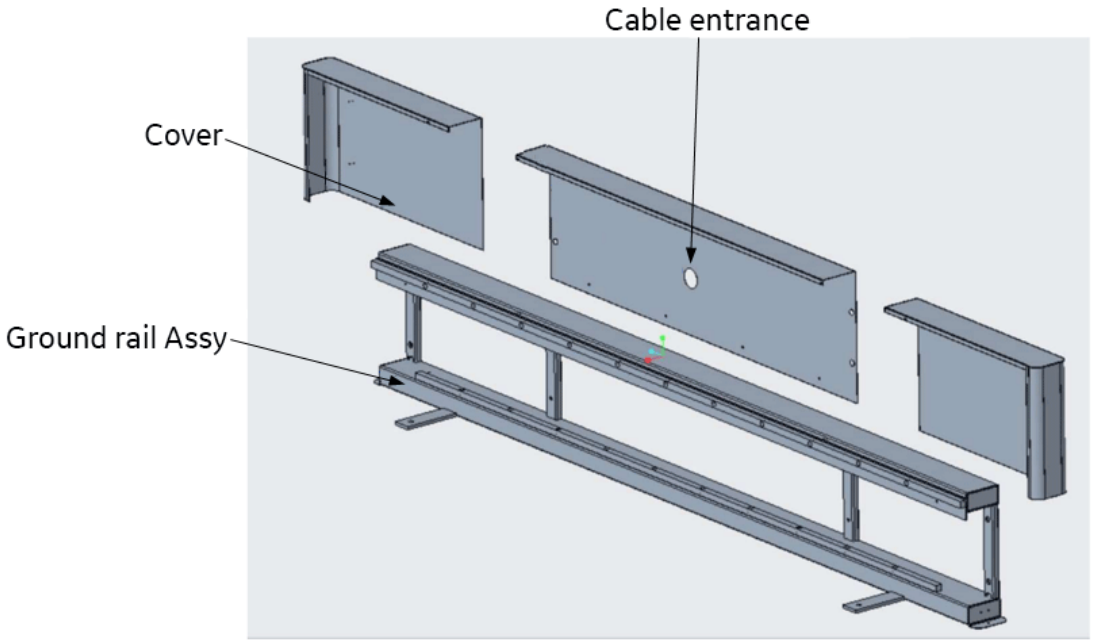


Figure 5-5 Cable Entrance Behind the Table



The cables from the cable hole on the tracking rail can be fixed on Head side or Foot side of the tracking rail, route to the side of the tracking rail with the bundle of cable from tube side and then put into the cable entrance.

Figure 5-6 Cable Entrance (Foot Side)

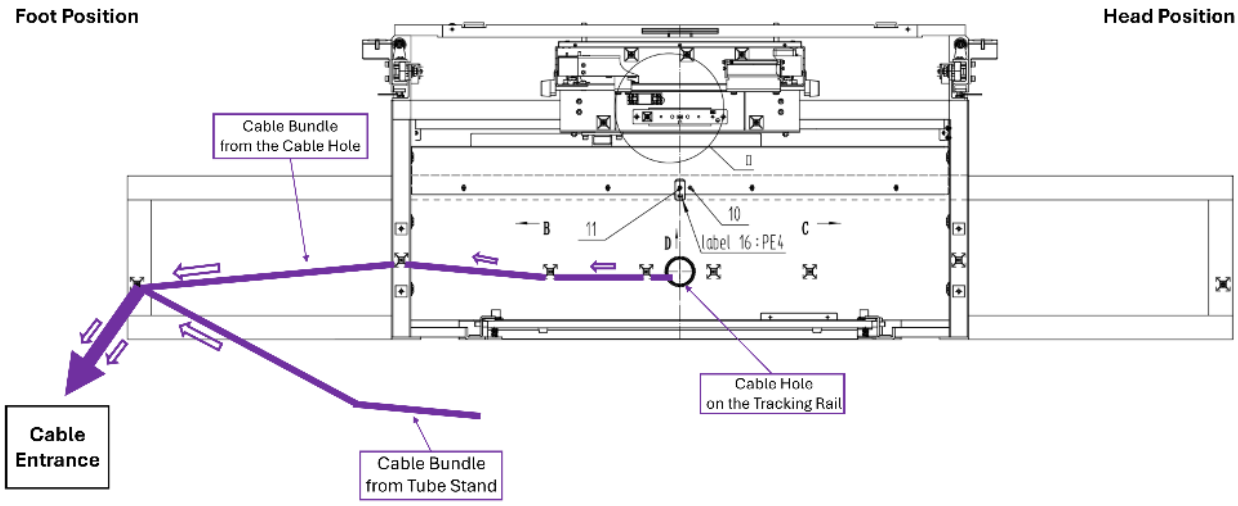


Figure 5-7 Cable Entrance (Head Side)

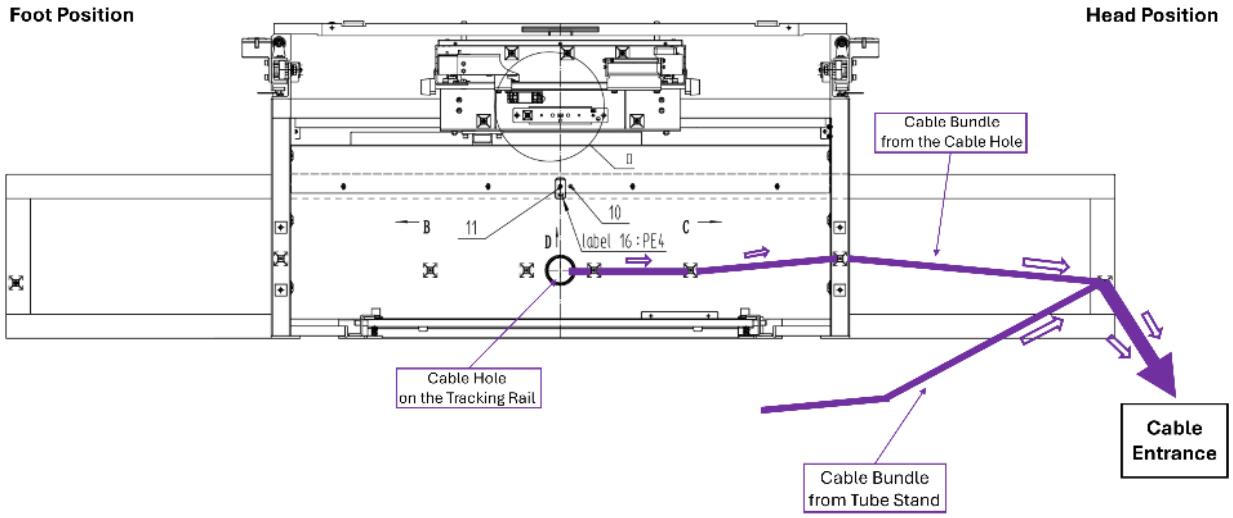


Figure 5-8 Available Cable Lengths Between Each Subsystem

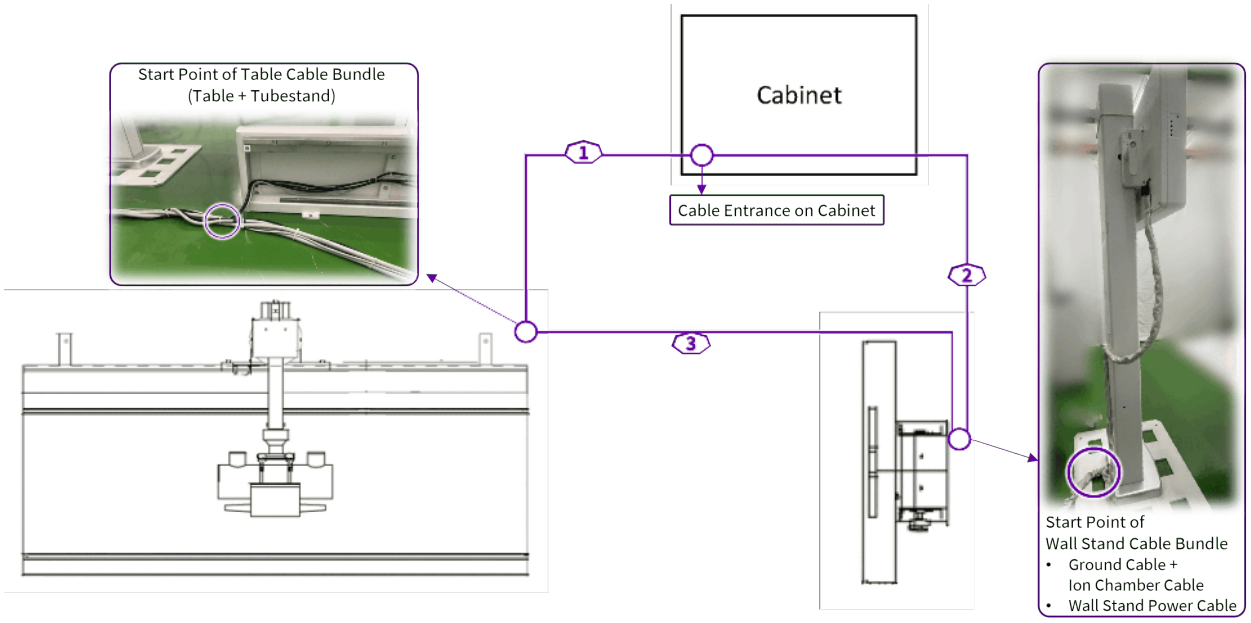


Table 5-5 Available Cable Lengths

Item	From To		Available Length	Description
1	Table	Cabinet	4.7 m	After route the cables from the tubestand and table ground rail, all the cables will be routed from one side of the ground rail to cabinet. The available length of the cable bundle is 4.7 m.
2	Wall Stand	Cabinet	9.5 m	After route the cables from the wall stand, the ground cable and the ion chamber cable will be routed to cabinet. The available length of the cable bundle is 9.5 m.

Table 5-5 Available Cable Lengths (Table continued)

Item	From To		Available Length	Description
3	Table	Wall Stand	8.8 m	After route the cables from the wall stand, the wall stand power cable will be routed to table, the available length of the cable is 8.8 m.

6 Communications/Networking

6.1 Hospital Network

6.1.1 Broadband Network Connection

The system is equipped with Broadband fast Ethernet hardware for Service diagnostics. Systems equipped with Digital Imaging are capable of placing electronic images on the Hospital image Ethernet Network. It is the purchaser's responsibility to provide the Ethernet connection (rated at 100Mb/sec transfer rate for optimal performance) within 3 feet (0.91 meters) of the Operator Console.

The network connection is made at the Operator Console.

- 100BaseT network connection is preferred
- 10BaseT network connection is acceptable

NOTE
If using GE PACS LITE BOX software, the GE PACS LITE BOX software revision must be 6.1d02 or greater. Older versions will not work with the system.

NOTE

1. Connection of the product to a network that includes other equipment could result in previously unidentified risks to patients, operators or third parties;
2. The responsible organization should identify, analyze, evaluate and control these risks;
3. Subsequent changes to the network could introduce new risk and require additional analysis; and changes to the network include:
    - Changes in network configuration;
    - Connection of additional items to the network;
    - Disconnecting items from the network;
    - Update of equipment connected to the network;
    - Upgrade of equipment connected to the network.

NOTE
The means required to present the images for diagnostic purpose shall comply with the requirements of DICOM standards.

6.1.2 Phone Line(s) - Voice

It is recommended that phone line(s) be installed within 3 feet (0.91 meters) of the Operator Console and be operational prior to installation.

6.1.3 Remote Services Broadband Pre-Installation Requirements for Europe

1. To enable an easier installation and to benefit from remote support (service and engineering teams), equipment should be Insite connected at installation.
2. Thus the connectivity solution to implement should be decided during pre installation and all related data should be available before installation starts.
3. For all installations make sure that you have at least one RJ45 dedicated to connect the new equipment on the LAN. In case of Broadband, this connection will also be used for the remote service of the equipment.
4. GE Healthcare offers a wide range of connectivity solutions: From full GE package (GE supplies Router and customer buys the line) to customized solutions (GE adapts to customer infrastructure).
5. Network devices (like CISCO Routers for instance) can be shipped with the equipment only if the Sales Representative has added the connectivity item in the order.
6. For complete descriptions of these connectivity solutions, please refer to the Broadband Solutions catalogue available through your local GEHC sales and service representative.
7. Connectivity Process and pre-installations checklists are available in the Broadband Connectivity Pre-Installation Manual (PIM) available through your local GE Healthcare sales and service representative.
8. For each solution selected by the customer the pre-installation checklist must be fulfilled by site IT manager in order to get connectivity information (site IT manager contacts, IP address...) available at installation.

NOTE

Connection of the product to a network that includes other equipment could result in previously unidentified risks to patients, operators or third parties;

- The responsible organization should identify, analyze, evaluate and control these risks;
- Subsequent changes to the network could introduce new risk and require additional analysis; and
  - Changes to the network include;
  - Changes in network configuration;
  - Connection of additional items to the network;
  - Disconnecting items from the network;
  - Update of equipment connected to the network;
  - Upgrade of equipment connected to the network.

6.2 Networkflow Audit

Understanding how your facility leverages its network investment through our Networkflow process will help us better integrate the Definium Pace Select system into your operations. The following is intended to identify the various ways the system can fit into your workflow and the ramifications of

selecting one path or another. We would like to start at the beginning, with the patient arriving at your facility, going through registration/admittance/patient scheduling and proceed all the way to the read images being archived.

6.2.1 What is the Networkf Audit

This audit was designed to collect information on your network, your DICOM equipment, your workflow and your dataflow. Once this information is collected, it will be used to determine the best way the system can fit into your facility. The information will also be used to ease and speed the integration of the system into your facility .This audit is intended to be performed before the system is quoted to you. With all facts uncovered, GE can prepare a more accurate quote and minimize "surprises" at the time of install.

You should fill this out with the GE Healthcare representative. They will be able to answer any questions you may have.

6.2.2 Facility Information

Name of Facility:		Room #:	
Workflow Contact:		Phone:	
Network Infrastructure Contact:		Phone:	
DICOM Device Contact:		Phone:	
Other Contact:		Phone:	
GEHC Sales Representative:			
GE Healthcare Auditor:			

6.2.3 Workflow Analysis

When the patient arrives in the system room for the exam, how is the patient data entered into the system?					
☐	Manually typed	☐	Entered via barcode reader Barcode for-mat:_____	☐	Downloaded from HIS/RIS
If the patient information was downloaded from a HIS/RIS system, how would the query be structured? (Pick all that apply)					
☐	By date	☐	By modality	☐	By patient information
☐	Other method - Please explain:				
In retrieving patient schedule information, do you query					
☐	Once at the start of the shift	☐	Several times during a shift	☐	Before each patient
What percent of images acquired are reviewed via softcopy? _____% What percent of images acquired are printed? _____%					
Once the digital diagnostic images are acquired, what is your facility's default workflow? (Pick one)					
☐	Manually send	☐	Automatically push		
(Pick all that apply)					

☐	Review station(s)	☐	Archive system(s)	☐	Printer(s)
When images are configured for automatic push, what would you like to be sent to PACS/archive/ review stations?					
☐	Raw	☐	Processed	☐	Raw and Processed
When images are printed, on what device is the print command originated? (Pick all that apply)					
☐	The system	☐	A review workstation	☐	A PACS system
How soon after the images are acquired is the first image quality check done?					
☐	Before the next image is shot	☐	Before the patient leaves	☐	After patient leaves
When it comes to image quality, would you prefer to;					
☐ Consider all images good unless marked bad ☐ Consider all images bad unless marked good					

6.2.4 The Physical Network

Physical infrastructures vary widely from institution to institution. GE Healthcare tried to pick the most popular networking connection to ease integration into your facility's network.

In the system room, this facility;					
☐	Has 100baseT installed	☐	Has 10baseT installed	☐	Has a different network installed
☐	Will have 100baseT installed	☐	Will have 10baseT installed	☐	We don't have a network installed
Do you segment your network using subnets?					
☐	Yes	☐	No		
Our equipment's IP addresses are:					
☐	Static	☐	Acquired via DHCP	☐	A combination of both methods

6.2.5 System Parameters

The Definium Pace Select system default uses the following IP Addresses internally:

- 192.168.1.1 eth0
- 192.168.2.1 eth1
- 192.168.3.1 br0 (eth2/3)
- 192.168.1.30 detector IP before detector boot
- 192.168.3.50 detector IP after boot in Tether/wireless

NOTICE

If the hospital network uses 192.168.x.x, there will be a conflict. If this conflict occurs, you must contact your GE service representative to change the internal IP addresses used by the system.

Definium Pace Select System Host Name:

Network (IP) Address: _ _ _ . _ _ _ . _ _ _ . _ _ _	
Subnet Mask: _ _ _ . _ _ _ . _ _ _ . _ _ _	
Router IP: _ _ _ . _ _ _ . _ _ _ . _ _ _	
Scheduled Station AE Title:	
The Host Name is the network's name for the Definium Pace Select system. IP addresses uniquely identify a device on a network. IP addresses are constructed of 32 bits, usually displayed as four numbers separated by a period. Please indicate the Network (IP) Address that will be assigned to the system.	Subnets are a method of logically dividing a network into smaller blocks. This is usually done based upon locality, functionality or security requirements. If your facility will place the system on a subnet, please list the Subnet Mask and Router IP. The Scheduled Station AE (Application Entity) Title is the name your HIS/RIS system will use to send worklist information to the Definium Pace Select system.

Table 6-1 Remote Host Data

Remote Hosts	**Include a DICOM Compliance Statement for each device**		
This remote Host is a:	☐ Review Work Sta- tion ☐ Archival Device ☐ PACS System ☐ MPPS Server	☐ Review Work Sta- tion ☐ Archival Device ☐ PACS System ☐ MPPS Server	☐ Review Work Sta- tion ☐ Archival Device ☐ PACS System ☐ MPPS Server
Manufacturer/Model:			
Software/Firmware version:			
Network(IP) Ad- dress:	_ _ _.- _ _ _.- _ _ _.- _ _ _	_ _ _.- _ _ _.- _ _ _.- _ _ _	_ _ _.- _ _ _.- _ _ _.- _ _ _
DICOM Compliance Level:	☐ 1.0 ☐ 2.0 ☐ 3.0 ☐ Not DICOM Compliant	☐ 1.0 ☐ 2.0 ☐ 3.0 ☐ Not DICOM Compliant	☐ 1.0 ☐ 2.0 ☐ 3.0 ☐ Not DICOM Compliant
Image Types Supported:	☐ DX ☐ CR	☐ DX ☐ CR	☐ DX ☐ CR
Supports Multiframing:	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Host Name:			
Do you plan to use this device as a:			
Remote Host Server	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____

Table 6-1 Remote Host Data (Table continued)

Remote Hosts	Include a DICOM Compliance Statement for each device		
Query/Retrieve?	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Query/Retrieve by ☐ Study ☐ Patient	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Query/Retrieve by ☐ Study ☐ Patient	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Query/Retrieve by ☐ Study ☐ Patient
Storage Commitment	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Network (IP) Address: _ _ _._ _ _._ _ _._ _ _	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Network (IP) Address: _ _ _._ _ _._ _ _._ _ _	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Network (IP) Address: _ _ _._ _ _._ _ _._ _ _
MPPS Server	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Network (IP) Address: _ _ _._ _ _._ _ _._ _ _	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Network (IP) Address: _ _ _._ _ _._ _ _._ _ _	☐ Yes ☐ No If "Yes", provide: • AE Title: _____ • Port Number: _____ • Network (IP) Address: _ _ _._ _ _._ _ _._ _ _

NOTE

Information on Definium Pace Select:

- The system allows you to configure only 1 HIS/RIS server.
- The system allows you to configure only 1 MPPS server.
- The system allows configuration of multiple printers and multiple PACS/ archive/ review stations.
- The Host Name of all the nodes configured on the system should be unique within the system.

6.2.6 Devices & Services Audit

Use the following narrative to complete the form on the previous page.

REMOTE HOSTS: Remote hosts are DICOM devices to which the Definium Pace Select system can push an image. Remote hosts can be review workstations, archival devices, or PACS systems.Please indicate the type of remote host. Now indicate the manufacturer and model name or number.

Compatibility can vary with software versions, please indicate the version of device firmware/software the device will be running.

List the device's **IP address**.

The answers to the next several items can be found in the device's DCS (DICOM Conformance Statement).

Please indicate the highest level of **DICOM conformance** for this device. If the device is not DICOM compliant, please indicate so and move on to the next device.

If the device does have some level of DICOM conformance, please return a copy of the DICOM Conformance Statement with this completed form.

DICOM supports a number of **image types**. Please indicate if this device supports the DX and/or the CR image types.

The **host name** is the name that will appear on the screen and users will use to indicate this device. Please list the host name.

The next four sections address the four services that remote host devices may offer. Each of the services will have its own AE (application entity) title and port number. The AE title is the name given to a service or application provided by a DICOM device. The port number is a logical designation within the device.

These pieces of information are available in the device's DCS.

Being a **remote host server** allows the Definium Pace Select system to push images to other devices. If you want the device to accept this service, check yes and provide the AE title and port number.

Being a **query/retrieve** service class provider allows the Definium Pace Select system to query this device and retrieve images stored there. If you want this device to provide these services to the Definium Pace Select system check yes and fill in the requested items. The query/retrieve by study or patient controls how much the user is able to retrieve at one time.

- For study, the user may retrieve studies, series, images.
- For patient, the user may retrieve all of the study attributes plus a patient's entire image collection.

A **storage commitment** provider confirms that images sent by the Definium Pace Select system to an archival system were received and stored. This option is only available when the Definium Pace Select system is sending DX type images. If your device supports both DX image types and storage commitment, check yes and provide the AE title, the port number and the network (IP) address.

The **MPPS server** receives the messages sent by the Definium Pace Select system. These messages consist of information such as when the exam started and closed, how many images were acquired, dose information, etc. This information is then updated on the Hospital Scheduling system. If the site has an MPPS server, provide the AE Title, IP address and port number.

Printers	**Include a DICOM Compliance Statement for each printer**	
Manufacturer/Model:		
Software/Firmware Version:		
Prints via Spooler:	☐ Yes ☐ No	☐ Yes ☐ No
Network (IP) Address:	_ _ _._ _ _._ _ _._ _ _	_ _ _._ _ _._ _ _._ _ _
DICOM Compliance Level:	☐ 1.0 ☐ 2.0 ☐ 3.0 ☐ Not DICOM Compliant	☐ 1.0 ☐ 2.0 ☐ 3.0 ☐ Not DICOM Compliant
Host Name:		

Printers	Include a DICOM Compliance Statement for each printer	
Printer AE Title:		
Port Number:		

- Printer:
  As with the remote hosts, please list the manufacturer and the model name/number. The software/firmware version should also be entered. Next, supply the IP address of the printer.
- DICOM Compliance Level
  Indicate the DICOM compliance level of the printer. If it is not DICOM compatible, please indicate so.

  DICOM compatibility does not guarantee all functions will work properly. Include every unique printer's DICOM Compliance Statement.
- Host Name
  Supply the Host name for the printer.
- Printer AE Title & Port Number
  Look in the DCS for the printer's AE title and port number.

RIS Systems	Include a DICOM Compliance Statement for each device	
Manufacturer/Model:		
Software/Firmware Version:		
Network (IP) Address:	_ _ _._ _ _._ _ _._ _ _	_ _ _._ _ _._ _ _._ _ _
DICOM Compliance Level:	☐ 1.0 ☐ 2.0 ☐ 3.0 ☐ Not DICOM Compliant	☐ 1.0 ☐ 2.0 ☐ 3.0 ☐ Not DICOM Compliant
Host Name:		
HIS/RIS AE Title:		
Port Number:		
Modality used for Scheduling:	☐ DX ☐ CR	☐ DX ☐ CR

- RIS Systems
  As with the remote hosts please list the manufacturer and the model name/number. The software/firmware version should also be entered.
- Network (IP) Address
  Indicate the IP address the device is using.
- DICOM Compliance Level
  Indicate the DICOM compliance level the device is using. Please include the DCS for the RIS with this completed form.
- HIS/RIS AE Title & Port Number
  Look in the DCS for the AE title and port number.
- Modality used for Scheduling
  Please indicate if this device supports the DX and/or the CR image types. This information should also be in the device's DCS.

6.2.7 Data Flow Analysis

Now that we have outlined the way your facility works and the devices you work with, we would like to define how the images flow through your network. The Definium Pace Select system is an acquisition-only device. Because of that fact you will need to move acquired images off the system and into your work/data flow. Please use the chart below to describe your data flow. As an example, if your

facility reviewed images as the first step after acquisition, the review box would be checked in the first column of the Task row (shaded) and the review workstation would be checked in the first column of the Device row. You should use each of the functions once.

1st step after acquisition	2nd step after acquisition	3rd step after acquisition
☐ Archive	☐ Archive	☐ Archive
☐ Print	☐ Print	☐ Print
☐ Review	☐ Review	☐ Review
☐ Archivedevice	☐ Archivedevice	☐ Archivedevice
☐ PACS	☐ PACS	☐ PACS
☐ Printer	☐ Printer	☐ Printer
☐ ReviewWorkstation	☐ ReviewWorkstation	☐ ReviewWorkstation
☐ Spooler =>Printer(s)	☐ Spooler =>Printer(s)	☐ Spooler =>Printer(s)
☐ Spooler =>Review Workstation(s)	☐ Spooler =>Review Workstation(s)	☐ Spooler =>Review Workstation(s)

Printing: It is important to us to understand the path your images follow before they are printed. We are now looking to answer the question of what road an image most typically travels on its way to be printed regardless if that is the first step in your process or not. Please try to find in the list below the path that best describes the path the image takes from acquisition to printing.

☐ XR System =>Printer

☐ XR System =>Spooler =>Printer(s)

☐ XR System =>Archive Device =>Printer

☐ XR System =>Archive Device =>Spooler =>Printer (s)

☐ XR System =>Archive Device =>Review Workstation =>Printer

☐ XR System =>Archive Device =>Review Workstation =>Spooler =>Printer

☐ XR System =>PACS =>Printer

☐ XR System =>PACS =>Spooler =>Printer

☐ XR System =>Review Workstation =>Printer

☐ XR System =>Review Workstation =>Spooler =>Printer

☐ XR System =>Other: _____ =>Printer(s)

Image Review: Now let's trace the path from acquisition to image review. Again, pick the item below that best describes how the image flows from the Definium Pace Select system to the radiologist.

☐ XR System =>Printer =>Printed Film =>Radiologist

☐ XR System =>Review Workstation =>Radiologist

☐ XR System =>Archive Device =>Review Workstation =>Radiologist

☐ XR System =>PACS =>Radiologist

☐ XR System =>PACS =>Review Workstation =>Radiologist

☐ XR System =>Other: _____=>Radiologist

Archive: The final part of this triad is archiving images. Pick the item below that best describes the flow of images to be archived.

☐ XR System =>Archive Device

☐ XR System =>PACS

☐ XR System =>Printer =>Printed Film =>Filing System

☐ XR System =>Review Workstation =>Archive Device

☐ XR System =>Review Workstation =>PACS

☐ XR System =>Other: _____ =>Archive Device

6.2.8 What Will Happen Next

Next, your completed audit sheet will be analyzed by your GE Healthcare representative and any issues identified.

6.3 InSite Configuration

Contact Security Administrator for information on outbound traffic allowance and to start connectivity workflows. The Definium Pace Select (Definium Pace Select Software) can connect to GE Back Office / Online Center, this allows for remote health monitoring, diagnostics, and can help facilitate troubleshooting customer problems. Site information is required for configuration, see below. A site may require the System ID and System IP Address to begin workflow. The following URLs will need to be accepted by the site for outbound traffic to GE:

- https://insite.gehealthcare.com:443
- https://as1-insite.gehealthcare.com:443
- https://as2-insite.gehealthcare.com:443
- https://download.flexnetoperations.com:443
- https://gehealthcare-ns.flexnetoperations.com:443

For EU Sites:

- https://insite-eu.gehealthcare.com:443
- https://as1-insite-eu.gehealthcare.com:443
- https://download.flexnetoperations.com:443
- https://gehealthcare-ns.flexnetoperations.com:443

For China Sites:

- https://insite.gehealthcare.cn:443
- https://as1-insite-cn.health.ge.com:443
- https://as2-insite-cn.health.ge.com:443
- https://download.flexnetoperations.com:443
- https://gehealthcare-ns.flexnetoperations.com:443

The Definium Pace Select (Definium Pace Select Software) can connect to GE Back office / OLC. This allows for remote diagnostic and help to facilitate troubleshooting customer problems. Site information is required for configuration, see

Can the device communicate on port 443/SSL?	• Yes • No

Is a proxy needed for outbound traffic	• Yes (Proceed with the following) • No (stop)
Proxy IP Address (XXX.XXX.XXX.XXX):	
Proxy Port Number:	
Does proxy require authentication?	• Yes (Proceed with the following) • No (stop)
Proxy Username:	
Proxy Password:	

NOTE

The vpn tunnel can be used for sites that were previously configured for insite 1 vpn connections. Enter the IP port for the server in the proxy details in the SUIF (**Configuration** > **InSite** > **Proxy**)

Proxy Server Address: 150.2.1.251

Proxy Server Port: 8002

Open a case with RSVP team to map the new system in the back office to RSVP: http://supportcentral.ge.com/ProcessMaps/form_new_request.asp?prod_id=24026&form_id=249959&node_id=463500&map_id=&reference_id=&reference_type=

7 System Cable Information

7.1 Introduction

The following information is provided as an aid to make the physical installation of system cables easy and efficient. In the tables that follow, the physical characteristics of each cable and its associated connectors is provided. Thus making it easier to plan cable paths and clearances in advance. Physical characteristics are given for each available cable length. Review cable lengths carefully and choose lengths appropriate for your installation prior to the equipment arriving, to avoid unnecessary installation delays.

Remember, it is up to you to make sure that all cables are routed and connected in accordance with all regulatory laws that may apply.

7.2 Cable Information

7.2.1 MIS Cable

Table 7-1 MIS Cable

Item	Part Number	Part Description	Length	Resistance Voltage	Connections	Shielded
1	5869349	Galaxy2.0 WS Power MIS Cable	13m	500V DC	Table to WS.	Non-shield
2	5903811	Galaxy2.0 ROTOR CABLE	16m	500V DC	Tube to cabinet J42	Non-shield
3	5336733-4	Galaxy2.0 WS Ion chamber cable	13m	500V DC	WS housing to cabinet	Non-shield
4	5929086	Galaxy2.0 DAP Meter power MIS cable	8m	500V DC		Non-shield
5	5924159	Galaxy2.0 Table AC power cable	16m	500V DC	Table to cabinet	Non-shield
6	5869345	Galaxy2.0 Console and Brake 24V Power cable	20cm	500V DC	Console to 24V and Brake	Non-shield
7	5869344	Galaxy2.0 collimator and Console 24VDC power cable	9m	500V DC	Table to collimator and Console	Non-shield
8	5914724	lock cable for standard table used in galaxy2.0	2.85m	500V DC	Brake to Vertical/Horizon/Rotation Brake	Non-shield
9	5393036	WanBo HV cable 12m	12m	75KV DC	Tube to cabinet	Shielded

7.2.2 Table Cable

Item	Part Number	Part Description	Length	Resistance Voltage	Connections	Shielded
1	5869346	Galaxy2.0 TBL AC Power Cable	1.94m	500V DC		Non-shield
2	5869347	Galaxy2.0 TBL DC Power Cable	65cm	500V DC		Non-shield
3	5897198	Galaxy2.0 TBL Limit Switch Parallel Cables	88cm	500V DC		Non-shield
4	5919663	galaxy2.0 table lateral brake cable	2.2m	500V DC		Non-shield
5	5919664	galaxy2.0 table longitude brake cable	3.1m	500V DC		Non-shield
6	5924158	Galaxy2.0 DAP Meter power cable	1.8m	500V DC		Non-shield
7	5920408	foot pedal switch, S1 cable	50cm	500V DC		Non-shield
8	5920409	tray brake, MC8 cable	2.05m	500V DC		Non-shield
9	5919857	S2 cable	35cm	500V DC		Non-shield
10	5920412	connect SPDT and S3	95cm	500V DC		Non-shield
11	5920410	PE3-PE4 grounding cable	88cm	500V DC		Non-shield
12	5920411	connect console 24VDC, SGT-2 table power cable	1.8m	500V DC		Non-shield
13	5307318-6	SKL A25 J81 to Table Ion chamber	16m	500V DC		Non-shield
14	5918398	galaxy2.0 WS housing ground cable	13m	500V DC	WS housing to cabinet	Non-shield

For available cable lengths, please refer to Figure 5-8 Available Cable Lengths Between Each Subsystem on page 79.

7.2.3 WS Cable

Item	Part Number	Part Description	Length	Resistance Voltage	Connections	Shielded
1	5919592	WS brake cable	3.76m	500V DC	WS brake to lock button	Non-shield
2	5919855	EM lock button assembly	44cm	500V DC		Non-shield
3	5918398	galaxy2.0 WS housing ground cable	13m	500V DC	WS housing to cabinet	Non-shield
3	5868218	WS housing ground cable	90cm	500V DC		Non-shield
4	5860705	Lock button extended cable	35cm	500V DC		Non-shield
5	5869348	Galaxy2.0 WS DC Power Cable	1.65m	500V DC		Non-shield

For available cable lengths, please refer to Figure 5-8 Available Cable Lengths Between Each Subsystem on page 79.

7.2.4 AP

Item	Part Number	Description	Length	Usable Length	Rating Voltage	Connector Size (mm) L*W*D	Connection	Shielded
1	5772927	Wireless AP Power MIS Cable	20M (65.62FT)	19.5M (63.98FT)	300V	ϕ35 x 50	Cabinet to AP power	Non-shield
2	5772928	Wireless AP Ethernet MIS Cable	25M (82.02FT)	24.5M (80.38FT)	350ACV500VDC	20 x 12 x 40	PC to AP	Shield
3	5851609	AP315 power cable	0.3M (0.98FT)	0.25M (0.82FT)	500VDC	20 x 12 x 40	AP power to AP	Non-shield

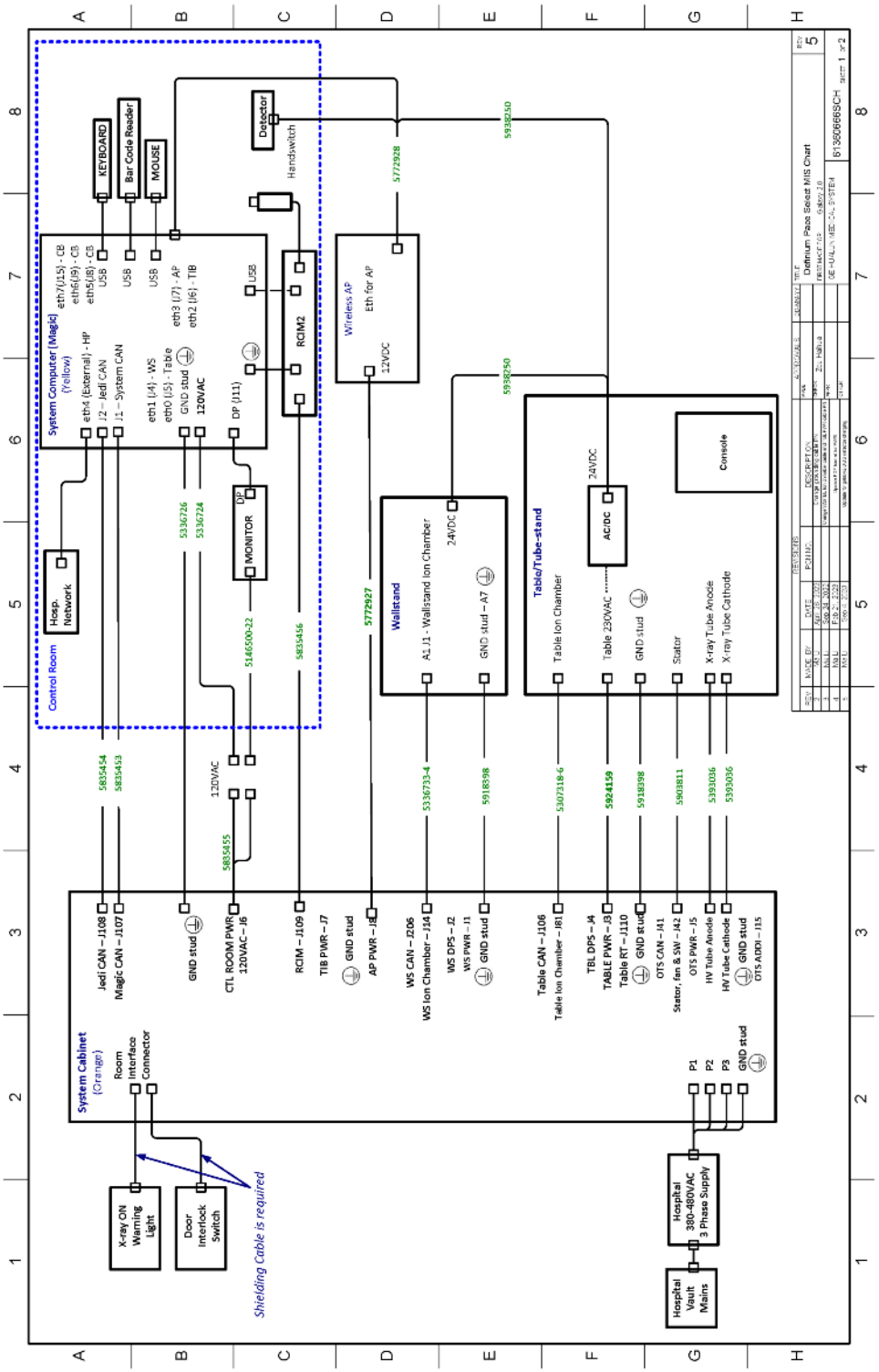
7.2.5 Control Room - Computer

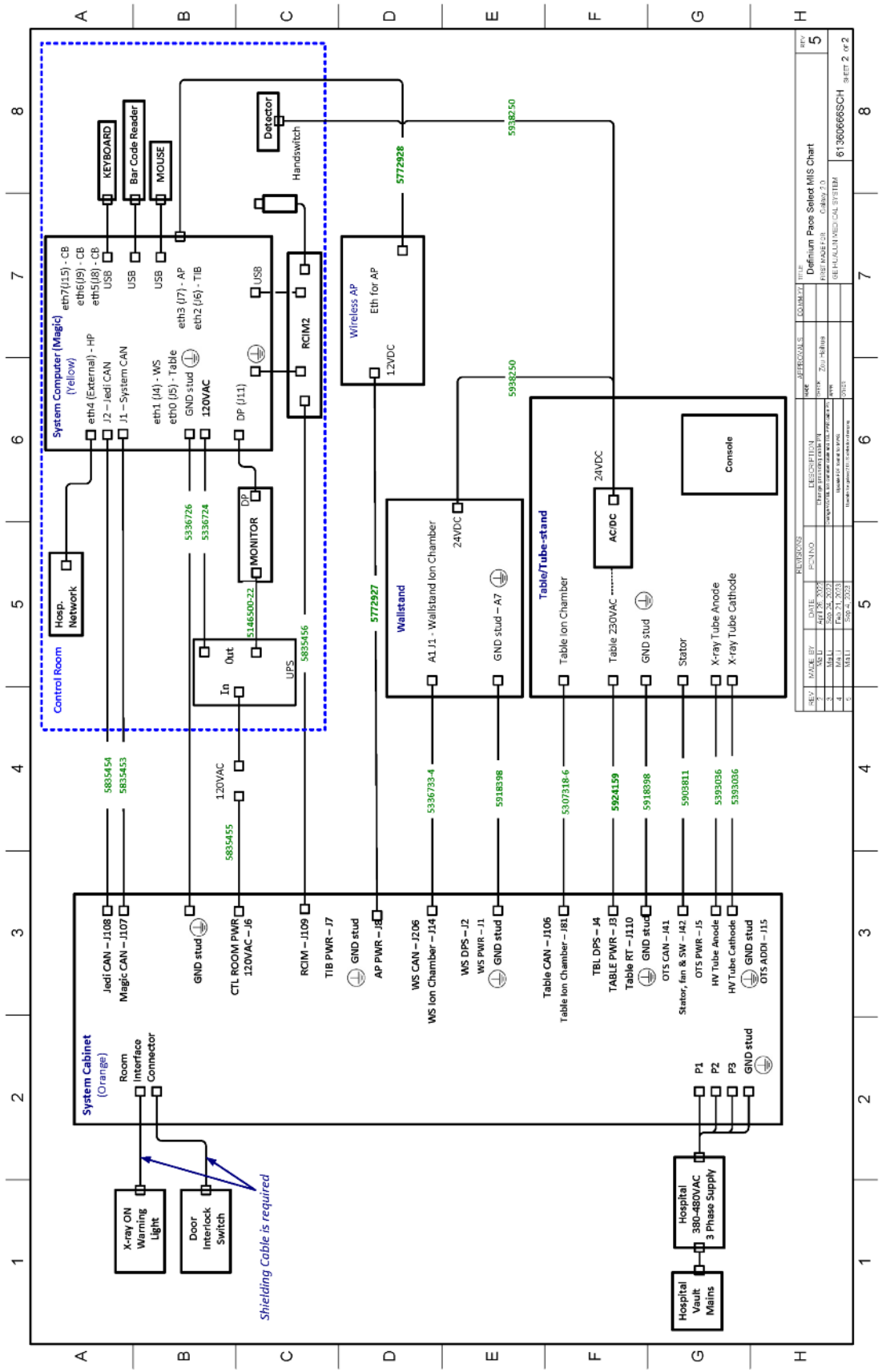
Item	Part Number	Description	Length	Usable Length	Rating Voltage	Connector Size (mm)	Connection	Shielded
1	5146500-22	FeiTianImage Monitor Cable (Viewer Moni- tor)	3M(9.84FT)	2.8M(9.19FT)	350ACV500VDC	35 x 42 x 60	Monitor to Cabinet	Non-shield
2	5835455	PC,Monitor Power Cable	20M(65.61FT)	19.5M(63.98FT)	350ACV500VDC	35 x 40 x 60	Monitor to Cabinet	Non-shield
3	5835454	Jedi CAN, PC to Cabinet	20M(65.61FT)	19.5M(63.98FT)	350ACV500VDC	35 x 20 x 45	Magic PC to Cabinet	Shield
4	5835453	SystemCAN, PC to Cabinet	20M(65.61FT)	19.5M(63.98FT)	350ACV500VDC	35 x 20 x 45	Magic PC to Cabinet	Shield
5	5336726	Substitute 5146500-24for Rohscompli- ance, FeiTian Magic PC Ground Cable	20M(65.61FT)	19.5M(63.98FT)	300V	ϕ10 X 35	Magic PC to Cabinet	Non-shield
6	5336724	Substitute 5146500-21for Rohscompli- ance, FeiTian II Magic PC Power Cable	3M(9.84FT)	2.8M(9.19FT)	350ACV500VDC	35 x 40 x 60	Magic PC to Cabinet	Non-shield

7.2.6 Control Room - RCIM II

Item	Part Number	Description	Length	Usable Length	Rating Voltage	Connector Size (mm)L*W*D	Connection	Shielded
1	5835456	RCIM,PC to Cabinet	20M(65.62FT)	19.5M(63.98FT)	350ACV500VDC	45 x 20 x 45	RCIM2 to Cabinet	Shield

7.3 System Master Interconnect Schematic (MIS Map)




Control Room
Hosp. Network
System Computer (Magic)
(Yellow)
eth4 (External) - HP
J2 – Jedi CAN
J1 – System CAN
eth1 (J4) - WS
eth0 (J5) - Table
GND stud
120VAC
DP (J11)
eth3 (J7) - AP
eth2 (J6) - TIB
USB
eth7(J15) - CB
eth6(J9) - CB
eth5(J8) - CB
KEYBOARD
Bar Code Reader
MOUSE
Detector
Handswitch
RCIM2
Wireless AP
Eth for AP
12VDC
5772928
5938250
MONITOR
DP
5336726
5336724
5146500-22
UPS
In
Out
5835456
5772927
Wallstand
A1 J1 - Wallstand Ion Chamber
24VDC
GND stud – A7
Table/Tube-stand
Table Ion Chamber
AC/DC
24VDC
Table 230VAC
GND stud
Stator
X-ray Tube Anode
X-ray Tube Cathode
Console
5835454
5835453
120VAC
5835455
5336733-4
5918398
5307318-6
5924159
5918398
5903811
5393036
5393036
System Cabinet
(Orange)
Room Interface Connector
Jedi CAN – J108
Magic CAN – J107
GND stud
CTL ROOM PWR 120VAC – J6
RCIM – J109
TIB PWR – J7
GND stud
AP PWR – J8
WS CAN – J206
WS Ion Chamber – J14
WS DPS – J2
WS PWR – J1
GND stud
Table CAN – J106
Table Ion Chamber – J81
TBL DPS – J4
TABLE PWR – J3
Table RT – J110
GND stud
OTS CAN – J41
Stator, fan & SW – J42
OTS PWR – J5
HV Tube Anode
HV Tube Cathode
GND stud
OTS ADDI – J15
P1
P2
P3
GND stud
X-ray ON Warning Light
Door Interlock Switch
Shielding Cable is required
Hospital 380-480VAC 3 Phase Supply
Hospital Vault Mains
REVISIONS
DESCRIPTION
Definium Pace Select MIS Chart
61360666SCH
Sheet 2 of 2

7.4 System Architecture

Figure 7-1 Signal System of Definium Pace Select

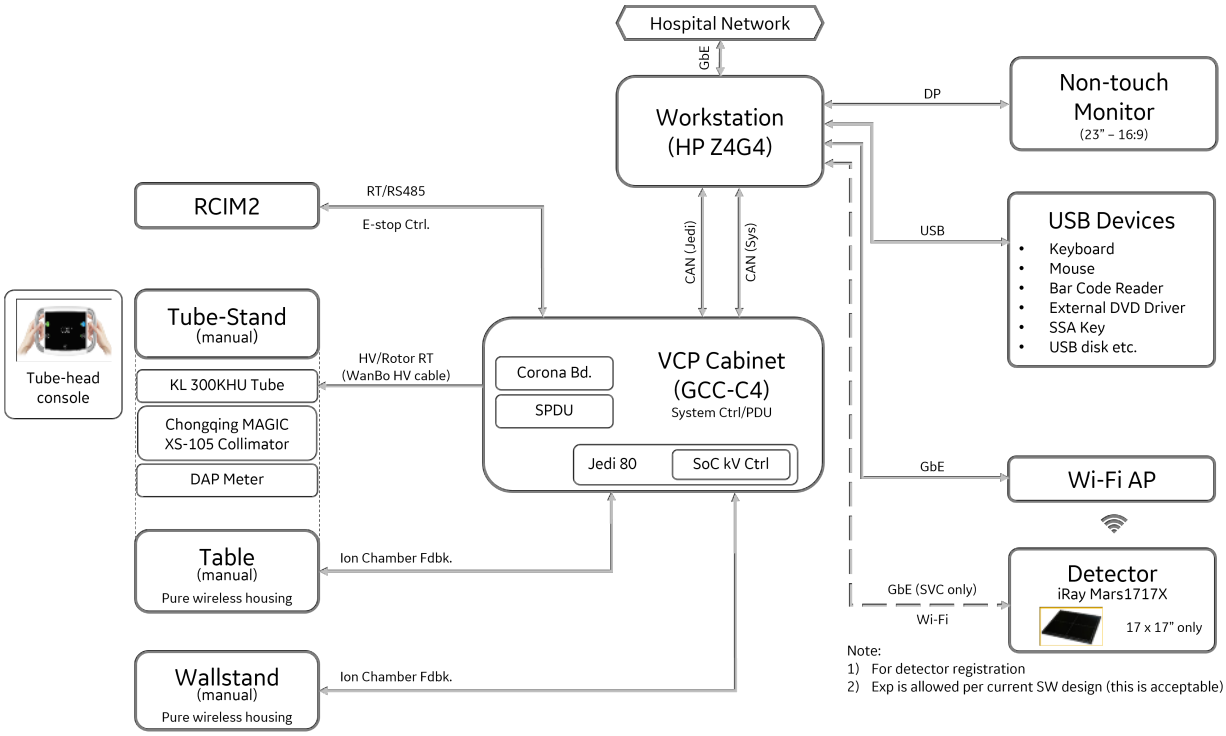


Figure 7-2 Power and Grounding of Definium Pace Select

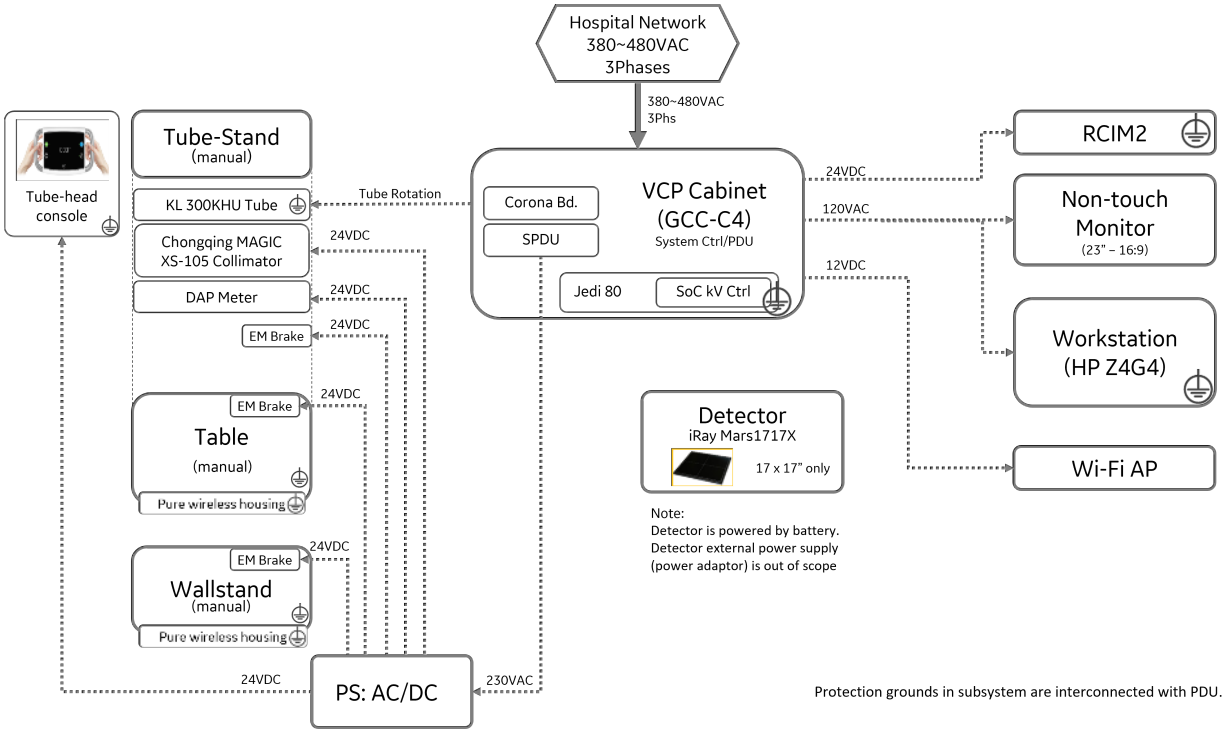
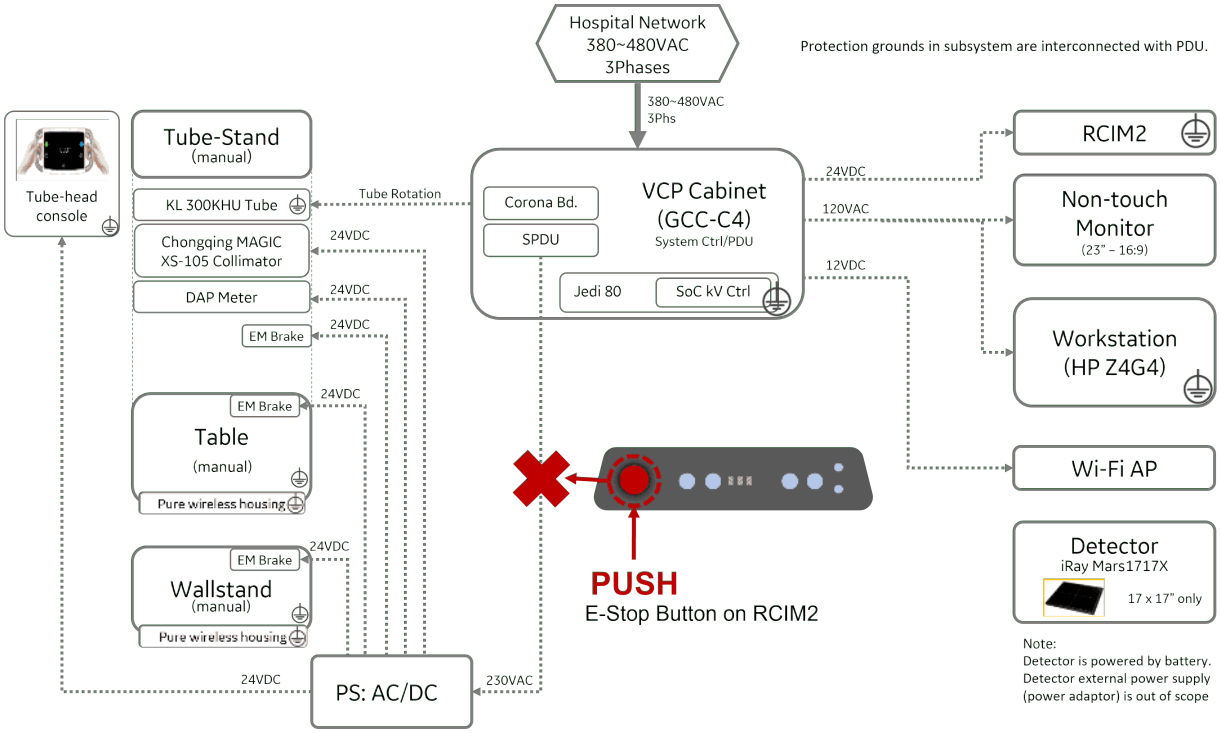


Figure 7-3 E-Stop Button on RCIM2



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