

WHSE BLDG 7 B30005
V.A. Medical Center
VA MEDICAL CENTER
1898 FORT ROAD
SHERIDAN, WY 82801

PO# 666-B30005

Qty	Item Description
1	Ysio 2 detectors fully synch 3m Universal digital radiographic workplace for skeletal radiography of the recumbent, standing or seated patient. Two high-resolution flat detectors as a basis for a fully digital imaging chain with a digital imaging system, an image and control station with application and evaluation programs and DICOM network connection. Tube assembly support fully motorized in all projection-relevant axes with up to 220 cm transverse travel. OPTITOP 150/40/80 X-ray tube assembly and multileaf collimator with full field and laser line light localizer.
1	Software Version VC10
1	wi-D (wireless detector 3543PR) Mobile, wireless flat detector, with loading and receiving unit for the wireless detector.
1	Clip-on grid for detector Optional clip-on grid: Grid with clips for attaching to the portable detector.
1	Ysio table for wireless detector Bucky table in compact design, for X-ray exposures of the entire body.
1	Manual Control Ysio Table Wired handheld remote to control system functions.
1	Foot Kick Switch Front For height adjustment of the patient positioning table and switching of the floating tabletop.
1	Generator R80 High-frequency 80 kW X-ray generator for diagnostic procedures at workplaces with automatic exposure control.
1	Caremax plus HS Integrated CAREmax measuring chamber for acquisition of the dose-area product.
1	19" Color Flatscreen Display 19" LCD color flatscreen display with high luminance and extended field of view.
1	Bucky Wall Stand #RAD Floor-mounted Bucky wall stand with height-adjustable and tiltable detector Bucky with flat detector for digital acquisitions. With IONTOMAT three-field chamber and Bucky frame. Detector Bucky operated from the right side. Vertical height adjustment and detector tilt possible from both sides.

Qty	Item Description
1	Pix/Pax FL-C Interface Interface to adapt the FLUOROSPOT Compact to a Ysio system with PIXIUM and PAXSCAN detectors.
1	Manual Control Bucky Wall Unit Wired handheld remote to control system functions.
1	VA Kit Ysio Second set of documentation for Veterans' Affairs Administration Hospitals in the U.S.
1	Transparent grid 15/80, F115 Highly selective anti-scatter grid for scattered radiation reduction: Pb 15/80 (slot ratio 15:1, 80 lines/cm). Grid focussing for SID 45 inches/115 cm.
1	Transparent grid 15/80, F180 Highly selective anti-scatter grid for scattered radiation reduction: Pb 15/80 (slot ratio 15:1, 80 lines/cm). Grid focussing for SID 71 inches/180 cm.
1	Laser light localizer Additional laser light localizer - shifted 90° compared to the standard laser light localizer included in the delivery volume - for targeting setting of the acquisition projection and patient positioning without radiation, e.g., setting at a trauma patient table in longitudinal direction.
1	DICOM WORKLIST & MPPS Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Worklist) as well as feedback on the examination status with DICOM MPPS (Modality Performed Procedure Step).
1	Standard keyboard English, US Standard keyboard.
1	Lateral detector holder Movable detector holder for direct overtable exposures with lateral projection and horizontal patient tabletop.
1	Customer documentation, English
1	Initial onsite training 32 hrs
1	Portable DR Panel Protector
1	Standard Rigging DigRad
1	Offset Initial Training 32 hrs One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.
1	TWO SETS OF SERVICE AND OPERATORS MANUALS

ALTERNATE PRODUCTS:

Qty	Item Description
1	Detector Holder, Mobile Trolley with detector holder for lateral acquisitions, independent of the patient positioning table.
1	Generator R65 High-frequency 65 kW X-ray generator for diagnostic procedures at workplaces with automatic exposure control. <i>This item has been quoted as a substitute for Part No. 14409329 - "Generator R80" that has been included in the quotation.</i>

SIEMENS

YSIO SYSTEM

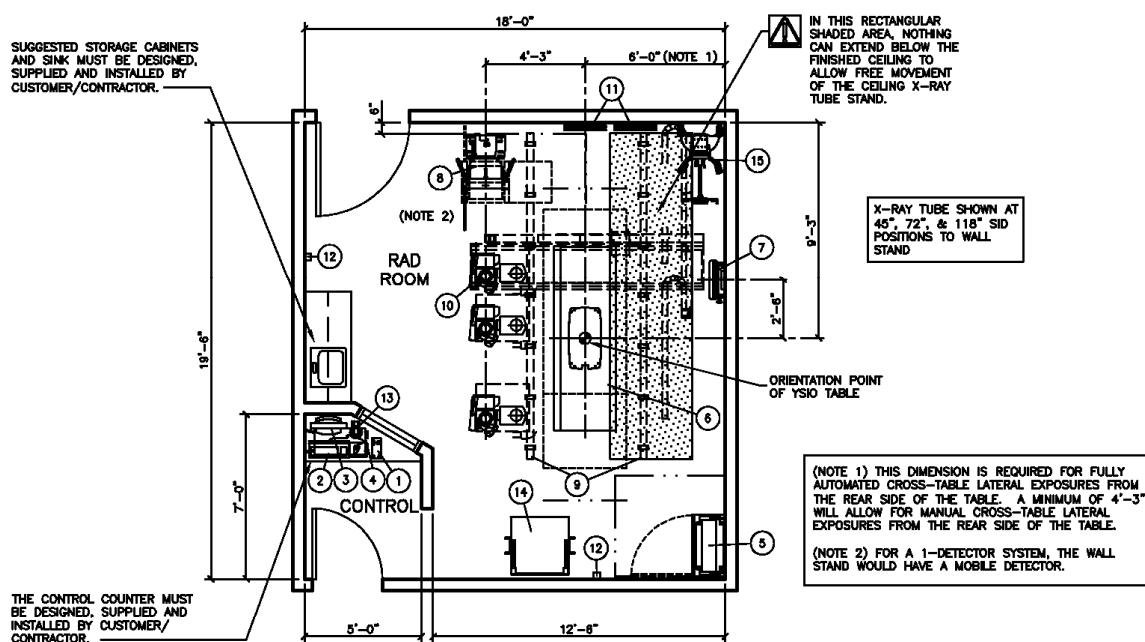
TYPICAL ROOM PLAN



The intended use for this Cut Sheet is to communicate the spatial requirements as well as the basic architectural, electrical, structural, and mechanical requirements for this piece of imaging equipment. The information provided in this document is for reference only, during the pre-planning stage, and therefore does not contain any site specific detailed requirements. This information is subject to change without notice. Federal, state and/or local requirements may impact the final placement of the components. It is the customer's responsibility to ensure that the final layout and placement of the equipment complies with all applicable requirements.

YSIO SYSTEM

TYPICAL ROOM PLAN



TYPICAL PLAN

SCALE: 1/8" = 1'-0"

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
①	CONTROL ROOM MODULE	Ⓢ	2	—	4 3/4	10 1/16	3 3/16	ON CUSTOMER'S COUNTER
②	IMAGING SYSTEM — KEYBOARD AND MOUSE	Ⓢ	—	—	—	—	—	ON CUSTOMER'S COUNTER
③	FLAT SCREEN CONTROL ROOM DISPLAY	Ⓢ	—	—	—	—	—	ON CUSTOMER'S COUNTER
④	IMAGING SYSTEM CONTAINER (UNDER COUNTER)	Ⓢ	110	1,468	17 3/8*	32 1/2*	27*	*INCLUDES REQUIRED CLEARANCES.
⑤	POLYDOROS R80 (80 KW) GENERATOR CABINET	Ⓢ	944	2,048**	31 1/2	17 1/8	86 3/4	** 1,195 IN STANDBY MODE
⑥	YSIO TABLE WITH MOBILE DETECTOR	Ⓢ	970	2,560	94 13/16	31 1/2	***	***20 1/4" TO 37 9/16"
⑦	DOCKING STATION (WALL MOUNTED)	Ⓢ	40	256	20 3/8	7 13/16	16 1/4	WITHIN 13 FT. OF TABLE INSERT
⑧	YSIO WALL STAND WITH FIXED DETECTOR (RIGHT LOADING GRID)	Ⓢ	551	751	30	36*A	83	*A — MAX. IN HORIZONTAL POSITION
⑨	YSIO CEILING RAILS FOR X-RAY TUBE SUSPENSION	Ⓢ	59	—	167 3/8	3	3 1/2	SIZE AND WEIGHT PER RAIL
⑩	3M FULLY AUTOMATED BRIDGE & X-RAY TUBE STAND	Ⓢ	803	3,072*B	119 1/4	39	4	*B 171 IN STANDBY MODE
⑪	GRID HOLDER (WALL MOUNTED)	Ⓢ	22	—	21 11/16	4	16 9/16	SUGGESTED LOCATION
⑫	EMERGENCY MECHANICAL STOP SWITCH (TWO PROVIDED)	Ⓢ	—	—	3 3/8	3 3/8	4 1/4	ONLY WITH FULLY AUTOMATED SYSTEM
⑬	REMOTE CONTROL CHARGING STATION	Ⓢ	—	—	4 1/8	7 1/4	4	ONLY WITH FULLY AUTOMATED SYSTEM
⑭	ORTHO SUPPORT (FOR ORTHO OPTION)	Ⓢ	177	—	34 13/16	29 1/2	79 1/4	FOR ORTHO OPTION
⑮	MOBILE DETECTOR HOLDER ON WHEELS (OPTION)	Ⓢ	121	—	24 1/2	40 3/16	70 1/2	ROLL AROUND LATERAL HOLDER

YSIO SYSTEM SPECIFICATIONS

POLYDOROS R80

X-RAY GENERATOR POWER REQUIREMENTS

INCOMING POWER:	480 VOLTS, 3 PHASE, 60Hz
CIRCUIT BREAKER:	80 AMPS.
GENERATOR OUTPUT:	80 KW
ALLOWABLE IMPEDANCE:	0.16 OHMS.
MAXIMUM MOMENTARY LOAD:	135 KVA
LINE VOLTAGE VARIATION:	± 10% MAX.
PHASE BALANCE:	2% MAX BETWEEN ANY 2 PHASES
FREQUENCY VARIATION:	± 1 Hz
VOLTAGE SURGES:	10% MAX. ABOVE LINE VOLTAGE
INSTANTANEOUS VARIATION:	20 msec. MAX. DURATION
VOLTAGE SAGS:	10% MAX. BELOW LINE VOLTAGE 20 msec. MAX. DURATION
LINE TRANSIENTS (SPIKES):	50% MAX. ABOVE LINE VOLTAGE 5 msec. MAX. DURATION
GROUND IMPEDANCE:	0.25 OHMS MAX.

NOTE:

ALL INCOMING POWER SUPPLIES, FOR THE SIEMENS EQUIPMENT, ARE TO BE DEDICATED (BACK TO SOURCE) ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT, SUCH AS, ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.

A NEUTRAL CONDUCTOR, IF PRESENT, IS NOT USED FOR THE LINE VOLTAGE CONNECTION TO THE SIEMENS EQUIPMENT. IF THE NEUTRAL CONDUCTOR IS PROVIDED, IT SHOULD NOT BE ELECTRICALLY CONNECTED AT ANY POINT IN THE POWER DISTRIBUTION TO THE SIEMENS EQUIPMENT UNLESS SPECIFICALLY REQUIRED. UNINTENTIONAL NEUTRAL TO GROUND BONDS MAY VIOLATE LOCAL AND NATIONAL ELECTRICAL CODES, AS WELL AS CREATE GROUNDING PROBLEMS.

ATTENTION:

SIEMENS MEDICAL SYSTEMS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS, AND OVERVOLTAGES.

ROOM HEIGHT REQUIREMENTS

		USABLE TABLE HEIGHT AT 45° SID
MINIMUM ROOM HEIGHT	8'-9 1/8"	2'-5 1/2" (3)
MINIMUM ROOM HEIGHT FOR 60° SID TO TABLE	9'-3"	2'-11 1/8"
MAXIMUM ROOM HEIGHT WITHOUT THE TUBE STAND TELESCOPE EXTENSION	9'-5 5/8" (1)	3'-1 1/2" (4)
	9'-10 7/8" (2)	
MAXIMUM ROOM HEIGHT WITH THE TUBE STAND TELESCOPE EXTENSION	10'-1 1/2" (1)	3'-1 1/2" (4)
	10'-7" (2)	
1) UPRIGHT (0°) EXPOSURES ARE POSSIBLE AT LOWEST POSITION OF WALL STAND.		
2) UPRIGHT (0°) EXPOSURES ARE NOT POSSIBLE AT LOWEST POSITION OF WALL STAND.		
3) RESTRICTED TABLE HEIGHT AT 45° SID.		
4) USABLE TABLE HEIGHT UNRESTRICTED.		

YSIO SYSTEM TECHNICAL DATA

TRANSPORTING INFORMATION

CEILING TRANSVERSE BRIDGE (3M)	SIZE: 126"L x 32"W x 10"H WEIGHT: 419 LBS.
CEILING TRANSVERSE BRIDGE (4M)	SIZE: 174"L x 32"W x 10"H WEIGHT: 512 LBS.
X-RAY TUBE SUPPORT FULLY AUTOMATED (WITHOUT CARRIAGE)	SIZE: 67"L x 41"W x 52"H WEIGHT: 847 LBS.
X-RAY TUBE SUPPORT FULLY SYNCHRONIZED (WITHOUT CARRIAGE)	SIZE: 67"L x 41"W x 52"H WEIGHT: 827 LBS.
TABLE	SIZE: 63"L x 35"W x 33"H WEIGHT: 1,039 LBS.
FIXED DETECTOR WALL STAND (WITH PACKING AND CRATE TOP)	SIZE: 92"L x 35"W x 42"H WEIGHT: 865 LBS.
MOBILE DETECTOR WALL STAND (WITH PACKING AND CRATE TOP)	SIZE: 92"L x 35"W x 42"H WEIGHT: 898 LBS.
MINIMUM DOOR OPENING:	37"
MINIMUM CORRIDOR WIDTH:	6'-11"

ENVIRONMENTAL CONDITIONS

	IN OPERATION	TRANSPORT
PERMISSIBLE AMBIENT TEMPERATURE	65°F TO 82°F	-4°F TO 131°F
PERMISSIBLE RELATIVE HUMIDITY	20 TO 75%	10 TO 95%

WIRELESS DETECTOR CONNECTION

OPERATION OF THE WIRELESS DETECTOR CAN BE AFFECTED BY OTHER WLAN DEVICES IN THE VICINITY OF THIS INSTALLATION. TO AVOID ANY CONFLICTS, THE CUSTOMER MUST PROVIDE A LIST OF EXISTING WLAN CHANNELS (FREQUENCIES) OR THE SPECIFIC CHANNEL (FREQUENCY) THEY DESIRE TO BE USED FOR THE WIRELESS DETECTOR.

THE WIRELESS CONNECTION IS ENCRYPTED (WPA2) AND IS BASED ON TWO WLAN STANDARDS, WITHIN WHICH SEVERAL CHANNELS (FREQUENCIES) ARE AVAILABLE:

- 1) 11G STANDARD - OPERATES AT 2.5 GHZ
- 2) 11A STANDARD - OPERATES AT 5 AND 6 GHZ

THE STANDARD (11G OR 11A) CAN BE SET BY SIEMENS SERVICE VIA THE SERVICE SOFTWARE INSTALLED ON THE IMAGING SYSTEM.

THE WIRELESS CONNECTION IS ONLY USED TO TRANSFER DATA BETWEEN SIEMENS EQUIPMENT AND IS NOT USED TO SEND DATA TO THE CUSTOMER'S NETWORK.

YSIO SYSTEM

SPECIFICATIONS

MAXIMUM CABLE DISTANCES BETWEEN COMPONENTS

	CONTROL ROOM MODULE	IMAGING SYSTEM	GENERATOR	TABLE	DOCKING STATION	WALL STAND	CEILING TUBE STAND	MECHANICAL STOP SWITCHES
GENERATOR	59'-0"	59'-0"	-	36'-0"	36'-0"	36'-0"	32'-0"	60'-0"

THE DISTANCES LISTED ABOVE ARE CALCULATED AS THE MAXIMUM CABLE LENGTH BETWEEN CABLE ENTRY POINTS. DEPENDING ON THE COMPONENT, THE CABLE ENTRY POINT MAY BE IN FLOOR, WALL OR CEILING. VARIOUS ARRANGEMENTS OF COMPONENTS ARE POSSIBLE AS LONG AS THE DISTANCES SHOWN ARE MAINTAINED AND THE SYSTEM FUNCTIONALITY IS NOT ADVERSELY AFFECTED.

REMOTE SYSTEM DIAGNOSTICS

SIEMENS REMOTE SERVICES (SRS) REQUIRES A CONNECTION BETWEEN THE SRS REMOTE SERVER AND SIEMENS SYSTEMS VIA REMOTE LOCAL AREA NETWORK ACCESS, TO ENSURE THE UPTIME OF YOUR SYSTEM.

THIS SERVICE REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

1. (PREFERRED) VPN - WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE.
2. (OPTIONAL) *SRS ROUTER* - CONNECTED TO ANALOG PHONE LINE VIA *ANALOG MODEM*, ETHERNET CONNECTION TO CUSTOMER'S LAN, AND A POWER OUTLET.

NOTE: = *SUPPLIED BY SIEMENS*

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
YSIO SYSTEM	AXB7-020.891.01.10.02	07.11

FOR MORE INFORMATION

FOR MORE DETAILED PLANNING REQUIREMENTS FOR THIS SYSTEM, SEE THE TYPICAL FINAL DRAWING SET NUMBER: 08010