

CT Imaging Control Room

Room Code	CTIR-CTRL
Briefed Area	16.00 m ²
Ceiling Height	2.7 m
Occupancy	up to 4 staff
Hours of Operation	Up to 24 hours

Description | The CT Control Room provides the space and equipment for remote control of CT imaging equipment, and amenities for review of images and reporting. Direct visibility of the patient through an observation window and direct access to the imaging room is required.

Electrical	PROTECTION: body protected	<input type="checkbox"/>	HVAC	AIRCONDITIONING: general	<input checked="" type="checkbox"/>
	PROTECTION: cardiac protected	<input type="checkbox"/>		AIRCONDITIONING: HEPA filtered	<input type="checkbox"/>
Lighting	LIGHTING: general	<input checked="" type="checkbox"/>		AIRCONDITIONING: positive pressure	<input type="checkbox"/>
	LIGHTING: colour corrected	<input type="checkbox"/>		AIRCONDITIONING: negative pressure	<input type="checkbox"/>
	LIGHTING: dimmable	<input checked="" type="checkbox"/>		VENTILATION: exhaust	<input type="checkbox"/>
	LIGHTING: indirect	<input type="checkbox"/>		VENTILATION: supply	<input type="checkbox"/>
Nurse Call and Duress	NURSE CALL SYSTEM: buttons / handset	<input checked="" type="checkbox"/>	Medical Gas	VENTILATION: natural	<input type="checkbox"/>
	NURSE CALL SYSTEM: annunciator	<input type="checkbox"/>		MEDICAL GAS: general anaesthesia	<input type="checkbox"/>
	DURESS: fixed	<input checked="" type="checkbox"/>		MEDICAL GAS: special care	<input type="checkbox"/>
	DURESS: wireless coverage	<input checked="" type="checkbox"/>		MEDICAL GAS: special care, neonatal ventilation	<input type="checkbox"/>
Security	ACCESS CONTROL: to door	<input type="checkbox"/>	Hydraulic	MEDICAL GAS: birthing	<input type="checkbox"/>
	ACCESS CONTROL: to item / joinery	<input type="checkbox"/>		WATER: drinking	<input type="checkbox"/>
	INTERCOM: service communications	<input checked="" type="checkbox"/>		WATER: specialty	<input type="checkbox"/>
	INTERCOM: security and access control	<input type="checkbox"/>		DRAINAGE: sanitary	<input type="checkbox"/>
	CCTV: camera coverage within room	<input type="checkbox"/>	Fire	DRAINAGE: specialty	<input type="checkbox"/>
	INTRUSION DETECTION: door monitoring	<input type="checkbox"/>		DETECTION: smoke	<input checked="" type="checkbox"/>
ICT and Audio Visual	INTRUSION DETECTION: spatial monitoring	<input type="checkbox"/>	Shielding	DETECTION: heat	<input type="checkbox"/>
	AUDIO VISUAL: patient entertainment system	<input type="checkbox"/>		SHIELDING: ionising radiation	<input checked="" type="checkbox"/>
	AUDIO VISUAL: visitor experience system	<input type="checkbox"/>	Acoustics	SHIELDING: magnetic and radio frequency	<input type="checkbox"/>
	AUDIO VISUAL: virtual collaboration system	<input type="checkbox"/>		SPEECH PRIVACY:	
	AUDIO VISUAL: clinical support system	<input type="checkbox"/>		not private moderate private confidential	
Accessibility	AUDIO VISUAL: digital operating room system	<input type="checkbox"/>		NOISE SENSITIVITY:	
	AUDIO: hearing augmentation	<input type="checkbox"/>		not sensitive medium sensitive sensitive	
	VISUAL: luminance contrast	<input checked="" type="checkbox"/>		NOISE GENERATION:	
	SIGNAGE: accessible, statutory	<input type="checkbox"/>		low moderate high very high	

Additional Considerations

- Cable ducts for services between the imaging unit, the equipment room (if provided) and the control room will be required and must be coordinated with the MME vendor. Additional building services connections and outlets are to be coordinated to suit equipment requirements.
- Radiation shielding requirements are to be assessed and advised by a qualified Radiation Consultant to suit the practice, workload and equipment procured, and all shielding on the Standard Component is indicative.
- An 'X-ray in Use' light system is required with signs that are illuminated when the imaging device is on and turned off when it stops. Signs are to be at all doors entering the room.
- The size, quantity and configuration of computer display screens is to be finalised based on the specific image display and processing task requirements (e.g. number of application windows to be viewed concurrently) and ergonomic considerations.

Providing flexibility of monitor positioning is vital to ensure adjustments are possible to meet the ergonomic requirements of different users.

- Depending on service requirements and staffing profile, workflow control and advanced processing workstations may be combined into the CT control room to support staffing and efficient patient flow.
- Additional RIS/PACs/EMR workstations may be required in larger services depending on service requirements and staffing models.
- Physiological monitoring on a display screen in the CT Control Room may be provided and would need to be supported with a connection provided within the CT Imaging Room. Provision will depend on service requirements and ICT policies.
- Acoustic treatment to be considered to manage noise from the CT machine and the adjacent equipment room.
- Provision of height adjustable workstations or fixed joinery is to be in line with service requirements and local WHS policies.
- Hours of operation depend on the service in which this room is located. Ambulatory medical imaging services may only operate during business hours or extended business hours, some small hospital services may have an on-call, after-hours service. Large units are likely to provide a 24-hour service, especially where a satellite service is provided with an emergency department.
- Requirement for fixed and/or mobile duress to be confirmed to suit service requirements.
- An operational model for responding to calls from staff/patients will be needed to support the inclusion of a nurse call system and is to be determined based on service requirements.
- Provision of an intercom for staff communication within the department is dependent on service requirements. This function may be provided as part of the telephone system.
- The need for and extent of emergency power and UPS must be reviewed to suit site specific requirements and confirmed based on risk assessment considering the impact of a power outage on patient care/safety.



Doors and Windows

CODE	DESCRIPTION	COMMENT
DOHI-013.07	DOOR: hinged, 1 leaf, 900 clear opening, solid, shielded, standard vision panel, lead glass, with cover	to imaging room
AFDPR-001.01	DOOR PROTECTION: kickplate, to 300H	to control room side
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	to imaging room side
DOHI-013.01	DOOR: hinged, 1 leaf, 900 clear opening, solid, standard vision panel	optional - staff entry from corridor
AFDPR-001.01	DOOR PROTECTION: kickplate, to 300H	to control room side
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	to corridor side, extent dependent on movement of beds and mobile equipment
WIFX-008.03	WINDOW: fixed, internal, single glazed, sill at 1050H, shielded, lead glass	for observation from control room
AHWCV-001	WINDOW COVERING: blind, roller, single	



Finishes

CODE	DESCRIPTION	COMMENT
FLVY-101	FLOOR FINISH: vinyl, seamless, standard slip resistance	
FLSK-021	SKIRTING: vinyl, integral with floor vinyl, coved	
WLFI-002	WALL FINISH: paint, clinical areas	
CLTI-021	CEILING: drop-in tiles, prefinished	
CLCN-041	CORNICE: wall trim fixing, prefinished	



Joinery

CODE	DESCRIPTION	GROUP	QTY	COMMENT
JOBE-071	BENCH: 800D, laminate	1	1	bench height to be confirmed; adjustable height desks may be considered depending on WHS policies and coordination with services and observation window

CODE	DESCRIPTION	GROUP	QTY	COMMENT
JOBE-211	BENCH SUPPORT: bracket	①	3	leg support is also acceptable
JOBE-251	CAP: cable access	①	4	
JOGE-001	BULKHEAD: joinery	①	1	
JOSH-101	SHELF UNIT: wall mounted, adjustable shelves	①	1	



Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIBM-019	WHITEBOARD: fixed, magnetic	②	1	
FIDI-241	DISPENSER: alcohol-based hand rub, wall mounted	②	1	
FIHR-126	RACK: lead apron, multi, wall mounted	②	1	with in wall structural support to product specifications
FIHR-201	BRACKET: central processing unit (CPU), under bench/desk	②	2	1 to CT control CPU, 1 to PACS CPU
FIHR-221	BRACKET: computer display screen, dual, articulated, bench/desk mounted	②	1	to display/processing workstation
FIHR-341	BRACKET: television/AV system display screen, single, articulated, wall mounted	②	1	optional - to display screen for physiological monitoring if provided
FIHR-408	BRACKET: patient monitor, articulated, wall mounted	②	1	to slave patient monitor
FQBS-172	CHAIR: office, ergonomic, high	③	3	
FQWS-051	BIN: general waste, 20L	③	1	
ITCL-381	DISPLAY SCREEN: patient observation	①	1	optional - for physiological monitoring
ITNE-071	TELEPHONE: handset, desktop	③	1	
ITNE-102	COMPUTER: dual display screens, central processing unit (CPU), keyboard and mouse, desktop	③	1	
ITNE-153	COMPUTER: central processing unit (CPU), PACS	③	1	
ITNE-172	DISPLAY SCREEN: computer, PACS	③	2	display/processing workstation, on dual arm bracket
ITNE-201	INPUT DEVICE: keyboard and mouse	③	1	
ITNE-311	PRINTER: desktop	③	1	
ITNE-341	SCANNER: desktop, document, flatbed, desktop	③	1	
MIGE-041	WARMER: contrast, benchtop	③	1	
MIGE-046	CONTROL CONSOLE: contrast injector, touch screen	③	1	
MMPM-051	MONITOR: patient, slave	③	1	



Major Medical Equipment (MME)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
MICT-011	CONTROL CONSOLE: computerised tomography (CT), dual display screens, keyboard and mouse, control unit, microphone and speaker, desktop	②	1	
MICT-016	COMPUTER: computerised tomography (CT), central processing unit (CPU)	②	1	



CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-105	GPO: single, wall mounted, cleaner	①	1	
ELGP-161	GPO: single, UPS, wall mounted	①	1	optional - to display screen for physiological monitoring if provided
ELGP-161	GPO: single, UPS, wall mounted	①	1	to slave patient monitor
ELGP-201	GPO: double, wall mounted	①	4	
ELGP-231	GPO: double, emergency power, wall mounted	①	7	
ELGP-261	GPO: double, UPS, wall mounted	①	2	to control console, extent of UPS to be confirmed to suit service and equipment requirements
ELPR-031	PANEL: UPS status indicator, wall mounted	①	1	
ELPR-071	RCD: residual current device, wall mounted	①	1	
ELSW-021	SWITCH: light, dimmer	①	2	to general room lighting, 1 to each door
ELSW-121	BUTTON: emergency stop, wall mounted	①	1	main power emergency stop, refer to equipment manufacturer for safety and compatibility with equipment
ITCL-181	BUTTON: staff assist, with cancel, wall mounted	①	1	
ITCL-181	BUTTON: staff assist, with cancel, wall mounted	①	1	optional - for anaesthetic assist
ITCL-191	BUTTON: emergency, with cancel, wall mounted	①	1	
ITIN-016	OUTLET: data, single RJ45, wall mounted	①	1	to slave patient monitor
ITIN-016	OUTLET: data, single RJ45, wall mounted	①	1	optional - to display screen for physiological monitoring if provided
ITIN-026	OUTLET: data, double RJ45, wall mounted	①	1	
ITIN-036	OUTLET: data, triple RJ45, wall mounted	①	4	
ITSE-061	BUTTON: security, duress, fixed, wall mounted	①	1	
ITSE-166	INTERCOM: audio, slave, wall mounted	①	1	optional - inclusion dependent on service requirements and ICT policies, may be integral function of telephone, to control workstation area
LIFX-213	LIGHT: illuminated sign, x-ray in use	①	1	to imaging room entry, to automatically turn on when modality is in use