



PET-CT Imaging Room

Room Code	PET-CT
Briefed Area	50.00 m ²
Ceiling Height	3.0 m
Occupancy	1 patient; up to 3 staff assisting
Hours of Operation	8am to 8pm, daily (dependent on unit operating hours)

Description | The PET-CT Imaging Room provides the area and facilities for Positron Emission Tomography-Computed Tomography (PET/CT) scanning procedures with a Control Room and Equipment Room (as required) located nearby.

Electrical | PROTECTION: body protected ☒
PROTECTION: cardiac protected ☐

Lighting | LIGHTING: general ☒
LIGHTING: colour corrected ☒
LIGHTING: dimmable ☒
LIGHTING: indirect ☐

Nurse Call and Duress | NURSE CALL SYSTEM: buttons / handset ☒

HVAC | AIRCONDITIONING: general ☒
AIRCONDITIONING: HEPA filtered ☐
AIRCONDITIONING: positive pressure ☐
AIRCONDITIONING: negative pressure ☐
VENTILATION: exhaust ☐
VENTILATION: natural ☐

Additional Considerations

- It is not essential that the control is directly adjacent to the Imaging Room where patients are monitored via observation cameras, however ready access is required to attend to patient needs. If the Control Room is adjacent an observation window may be provided and shielding requirements will need to be confirmed.
- Cable pathways for services between the Control Room, Equipment Room and Imaging Room must be established and coordinated prior to construction and developed based on vendor requirements.
- Equipment is to be installed to manufacturer's specifications with sufficient clearances for maintenance access and support structure as required.
- The PET-CT Imaging Room must be adequately shielded to ensure that radiation doses to surrounding areas do not exceed radiation dose limits and satisfy design/dose constraints. Radiation shielding is to be as advised by a qualified Radiation Consultant to suit the practice, workload and equipment procured, and all shielding on the Standard Component is indicative only.
- Configuration of medical gases is to be confirmed to meet clinical requirements such as the provision of anaesthetic services.
- Dimmable lights are recommended and are to be placed to avoid glare to patients.
- Back lit ceiling artwork may be installed for patient comfort.
- 'X-ray in Use' lights are required outside each entry door.
- Laser marker system for procedure planning may be required subject to model of care and equipment selected.
- Structural assessment is required to ensure the floor will be rigid with no vibration and will accommodate the weight of the PET-CT unit.
- Room temperature and humidity control is required. Temperature requirements for equipment are to be confirmed by the vendor, including requirement for circulated cooling water.
- The need for and extent of emergency power and UPS must be reviewed to suit site specific requirements. UPS power is required to the PET-CT scanning and control equipment. Other emergency power and UPS requirements to be confirmed based on risk assessment considering the impact of a power outage on patient care/safety.
- An optional laser system for patient positioning and procedure planning has been indicated and may be provided subject to service requirements. A mix of respiratory gating, surface guidance, motion management and/or patient position technologies may be considered depending on clinical/service requirements (e.g. for radiation therapy planning). The provision of these technologies is to be confirmed by the project and may have additional requirements including additional power/data, water cooling, heat load, possible increased set down, increased number of trenches/conduits, space requirements for computer cabinets in control room and additional penetrations through the suspended ceiling. Requirements to be confirmed with vendors.
- Consideration needs to be given to the clearances of equipment and replacement part delivery routes.



Doors and Windows

CODE	DESCRIPTION	COMMENT
DOHI-003.02	DOOR: hinged, 1 leaf, 900 clear opening, solid, shielded	[DWSC-005] automated
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	[DWPR-005] to corridor side, extent dependent on movement of beds and mobile equipment in adjacent area; to be coordinated with corridor wall protection
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	[DWPR-005] to room side
AFDPR-056.03	DOOR FRAME PROTECTION: full wrap, to 1200H	[DWPR-010] optional, provision and extent dependent on frame material/finish and movement of beds and mobile equipment in adjacent area
DOHI-204.02	DOOR: hinged, 2 leaves, 1800 clear opening, solid, shielded	[DWSC-034] automated
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	[DWPR-005] to corridor side, extent dependent on movement of beds and mobile equipment in adjacent area; to be coordinated with corridor wall protection
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	[DWPR-005] to room side
AFDPR-056.03	DOOR FRAME PROTECTION: full wrap, to 1200H	[DWPR-010] optional, provision and extent dependent on frame material/finish and movement of beds and mobile equipment in adjacent area



Finishes

CODE	DESCRIPTION	COMMENT
FLVY-101	FLOOR FINISH: vinyl, seamless, standard slip resistance	[FLVY-007] floor finish must be minimum slip rating R10 / Pendulum P3 or agreed equivalent to extend under basin or inset section of non-slip vinyl required
FLSK-021	SKIRTING: vinyl, integral with floor vinyl, coved	[FLSK-010]
WLFI-001	WALL FINISH: paint	[WLWA-004]
WLFI-011.03	WALL FINISH: vinyl, to 1200 AFFL	[WLWA-025]
WLFI-011.04	WALL FINISH: vinyl, to 1500 AFFL	[WLWA-020]
WLFI-101	SPLASHBACK: vinyl	[WLWA-007]
CLFS-011	CEILING: flush set, suspended	[CLFS-006]
CLFI-002	CEILING FINISH: paint, clinical areas	[CLFS-006]
CLCN-031	CORNICE: square set	[CLCN-008]



Joinery

CODE	DESCRIPTION	GROUP	QTY	COMMENT
JOBE-031	BENCH: 600D, laminate	1	1	[FIJO-059]
JOCU-021	CUPBOARD: tall, double door	1	1	[FIJO-218] reinforced shelving
JOCU-201	CUPBOARD: under bench, single door	1	1	[FIJO-141]
JOCU-221	CUPBOARD: under bench, double door	1	3	[FIJO-136]
JOGE-001	BULKHEAD: joinery	1	1	[FIJO-212]



Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIDI-106	DISPENSER: PPE, disposable gloves, wall mounted	②	1	[FIDI-014] near door
FIDI-231	DISPENSER: paper towel, wall mounted	②	1	[FIDI-025] to basin
FIDI-241	DISPENSER: alcohol-based hand rub, wall mounted	②	1	[FIDI-001]
FIDI-256	DISPENSER: soap, wall mounted	②	1	[FIDI-030] to basin
FIDI-261	DISPENSER: soap, antimicrobial, wall mounted	②	1	[FIDI-031] to basin
FIHR-030	HOOK: equipment, patient slide, wall mounted	①	1	[FIHR-030]
FIHR-091	HOOK: anchor point, for attaching patient self-assist positioning aid, wall mounted	①	1	[FIHR-092]
FIHR-101	BRACKET: suction bottle, wall mounted	②	2	[FIHR-019]
FQBS-101	CHAIR: visitor, clinical areas	③	1	[FQBS-030]
FQCL-211	LINEN CARRIER: dirty, single skip	③	1	[MMGE-048]
FQWS-003	BIN: sharps, clinical, medium	③	1	[MMGE-142]
FQWS-031	CART: sharps bin, clinical	③	1	[MMGE-142]
FQWS-051	BIN: general waste, 20L	③	1	[FQCW-016] to basin
FQWS-231	BIN: clinical waste, 20L	③	1	[FQCW-005]
HYBA-121	BASIN: type B, handwashing	①	1	[HYBA-010]
HYTP-067	TAPWARE: basin, tap set, wall mounted, lever handles	①	1	[HYTP-037]
ITBU-441	CLOCK: analogue display, electric, wall mounted	①	1	[ITCL-014]
ITCL-431	CAMERA: patient observation, ceiling mounted	①	2	[ITCL-012 + FIHR-077]
ITCL-432	CAMERA: patient observation, wall mounted	①	1	[ITCL-012 + FIHR-078]
ITNE-076	TELEPHONE: handset, wall mounted	②	1	[ITNE-053]
MGFP-061	ADAPTER: suction	③	2	[MMGE-002] on services panel
MIGE-041	WARMER: contrast, benchtop	③	1	[MMMI-377] optional
MIPT-041	PHANTOM: PET-CT	③	1	[MMMI-209] stored within shielded custom joinery
MMBE-031	TRANSFER AID: patient slide board, staff assisted patient transfer	③	1	[MMBE-042]
MMGE-045	POLE: IV, mobile	③	1	[MMGE-045] may be ceiling mounted
MMGE-191	CANNISTER: suction bottle	③	2	[MMGE-100]
MMGE-251	DEVICE: sphygmomanometer, portable	③	1	[MMGE-091]



Major Medical Equipment (MME)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
MIGE-053	INJECTOR: contrast, ceiling mounted	②	1	[MMMI-107] also may be mobile or wall mounted
MIGE-071	INJECTOR: radioisotope, automatic, mobile	②	1	[MMMI-218]
MIPT-001	IMAGING DEVICE: PET-CT	②	1	[MMMI-207]
MIPT-006	TABLE: patient, PET-CT	②	1	[MMMI-217]



Engineering Services

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-101	GPO: single, wall mounted	①	1	[ELGP-109] 1 to clock
ELGP-105	GPO: single, wall mounted, cleaner	①	1	[ELGP-110]
ELGP-106	GPO: single, ceiling mounted	①	3	[ELGP-101] 1 to laser positioning light
ELGP-131	GPO: single, emergency power, wall mounted	①	1	[ELGP-123.1]
ELGP-201	GPO: double, wall mounted	①	1	[ELGP-208]
ELGP-226	GPO: double, in floor box	①	4	[ELGP-203]
ELGP-231	GPO: double, emergency power, wall mounted	①	2	[ELGP-223] to walls
ELPR-031	PANEL: UPS status indicator, wall mounted	①	1	[ELPR-007] on service panel
ELPR-071	RCD: residual current device, wall mounted	①	1	[ELPR-006] on services panel
ELSW-021	SWITCH: light, dimmer	①	1	[ELBO-012] number determined by number of doors
ITCL-181	BUTTON: nurse call, staff assist, with cancel, wall mounted	①	1	[ITCL-008] on services panel + indicator button & light
ITCL-191	BUTTON: nurse call, emergency, with cancel, wall mounted	①	1	[ITCL-004] on services panel + indicator button & light
ITIN-011	OUTLET: data, single RJ45, ceiling mounted	①	2	[ITIN-011]
ITIN-016	OUTLET: data, single RJ45, wall mounted	①	3	[ITIN-016]
ITIN-026	OUTLET: data, double RJ45, wall mounted	①	2	[ITIN-026] on wall near PET-CT unit
ITIN-162	FLOOR BOX: power and data outlets, flush floor mounted	①	2	[ITIN-143]
ITSE-166	INTERCOM: audio, slave, wall mounted	①	1	[ITSE-029] handsfree to control room
ITSE-297	BUTTON: door release, remote activation, wall mounted	①	1	[ITSE-025]
LIFX-192	LIGHT: feature, backlit panels, ceiling mounted	①	2	[LIFX-038]
LIFX-213	LIGHT: illuminated sign, x-ray in use	①	2	[LIFX-002] to outside of all doors to room, auto on when modality is in use, vendor to provide signal wiring to light
MEGE-001	CONTROL PANEL: HVAC	①	1	[MEGE-007] alarm for temperature range



Medical Services Panels and Pendants

CODE	DESCRIPTION	GROUP	QTY	COMMENT
Panel 1				
MMSP-051	MEDICAL SERVICES PANEL: wall mounted	①	1	[MMSP-026] patient services
ELGP-146	GPO: single, emergency power, on services panel	①	4	[ELGP-122] on service panel
ITIN-025	OUTLET: data, double RJ45, on services panel	①	1	[ITIN-025]
MGAS-022	OUTLET: medical air, on services panel	①	1	[MGAS-022] on services panel
MGAS-032	OUTLET: nitrous oxide (N2O), on services panel	①	1	[MGAS-032] optional, on services panel
MGAS-042	OUTLET: oxygen (O2), on services panel	①	2	[MGAS-042] on services panel
MGAS-052	OUTLET: scavenge, on services panel	①	1	[MGAS-053] optional, on services panel
MGAS-062	OUTLET: suction, on services panel	①	2	[MGAS-062] on services panel
MGFP-021	FLOWMETER: medical air	③	1	[MGFP-002] on services panel
MGFP-041	FLOWMETER: oxygen	③	2	[MGFP-004] on services panel

For guidance on how to use the Room Data Sheet, please visit the [AusHFG website](#).