

Specifications

GENERAL

The PV85 (2 off) is designed to conduct maritime surveillance, in conjunction with maritime air patrol assets to the limit of New Zealand's EEZ, in the South Pacific and in the Southern Ocean for a total of about 420 days annually. Tasks in the southern half of the EEZ are mostly offshore, but activity in the south almost doubles during winter, coinciding with the worst sea states. PV85 the Tenix Offshore Patrol Vessels are based on a design already in service with the Irish Navy. They will be built in Melbourne with modules made in Whangarei, where modules were also built for the 10-ship Anzac frigate project

PRINCIPAL DIMENSIONS

Length overall	85.0 m	278'-10"
Length waterline	77.6 m	254'-7"
Breadth molded	14.0 m	45'-11"
Depth main deck	6.8 m	22'-4"
Design draft	3.6 m	11'-10"

CLASSIFICATION

LRS 100A1 SSC PATROL MONO G5 - ICE CLASS 1C, LMC UMS

PERFORMANCE

Installed power	10.8 MW	14,480 hp
Maximum speed	23.0 kn	
Range	6,000 N-m at 15kn	
Endurance	21 days	

CAPACITIES

Fuel Oil	360 m ³	95,040 USG
Lube Oil	12 m ³	4,100 USG
Fresh Water	46 m ³	15,730 USG
Aviation Fuel	21 m ³	5,540 USG

COMPLEMENT

80

PROPULSION MACHINERY

Two (2) MAN 12RK280 diesel eng.	2 x 5,400 kw	2 x 7,240 hp
Two (2) Gearboxes		ZF W63000 NRH
Two (2) shafts with CPP		Propellers - 2.8 m diameter

AUXILIARY MACHINERY

Two (2) MAN D 2842 LE301 SSDG	2 x 530 kw	2 x 710 hp
One (1) MAN D 0842 LE201 EDG	1 x 103 kw	1 x 138 hp
One (1) Bow Thruster	1 x 450 kw	1 x 600 hp

ELECTRICAL

3 diesel driven alternators, 440V, 3 ph, 60 Hz, 1800 RPM, 0.8 pf
1 emergency diesel alternator, 440V, 3 ph, 60 Hz, 1800 rpm, 0.8pf

AUTOMATION

UMS

DECK MACHINERY

One (1) Anchor Windlass	14 kw - 36mm chain
Cargo crane for container handling	16t @ 9m
Two (2) boat davits p & s	3,600kg / 50 kw

LIFESAVING EQUIPMENT

Two 7.4 m rigid inflatable boats (RIB) with diesel inboard engines
Six (6) 45 man inflatable liferafts
All other equipment as required by Flag State

WEAPONS

One (1) MSI 25 mm DS25M AUTSIG Naval Gun System
Two (2) M2HB QCB 50 calibre Browning machine guns

HELICOPTER FACILITIES

Kaman SH-2G Super Seasprite at 6,115 kg max take-off weight
Helicopter landing deck, hangar, refueling and traversing systems



PV 85

Offshore Patrol Vessel

PV 85

PRINCIPAL PARTICULARS

Length overall: 85.0 m
Length waterline: 77.6 m
Breadth molded at deck: 14.0 m
Depth main deck: 6.8 m
Design draft amidships: 3.5 m

- Water Ballast
- Fuel Oil
- Lube Oil
- Fresh Water
- Dirty Oil
- Sewage

