

MV SOUTHERN CROSS



44.5m LOA SURVEY & RESEARCH VESSEL

PRINCIPAL PARTICULARS

| | |
|----------------------|--|
| Classification | Special Purpose: Research |
| Year Built | 1995 |
| Call Sign | E5U3784 / IMO 9135418 |
| Length O.A | 44.5 m |
| Beam | 7.40 m |
| Maximum Loaded Draft | 4.11 m |
| Gross Tonnage | 319 tonnes |
| Speed | 12 Knots maximum 9.5 Knots economical |

MACHINERY AND EQUIPMENT

| | |
|-------------------|---|
| Main Engine | Niigata 6MG25HX 1103KW @ 750 RPM Kamome Controllable Pitch Prop |
| Bow Thruster | Kamome TCA-30 3 Tonne |
| Generators | 2 x Niigata 6NSF-G 185kW @1200RPM |
| Harbour Generator | HINO H07D-C 72kW |
| Aft Deck Crane | Haoyo Marine Crane 1.5t@10m, 4t@4m |
| Boat Deck Crane | Hiab 081-3 0.7t@9.6m, 1.72t@4.3m |
| Rescue Boat | VIKING NORSAFE Matrix – 450MK1 |

FUEL CONSUMPTION AND CAPACITY

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|---------------------|--|
| Consumption | 2200 litres / day at 9.5 knots (700 RPM and 15 deg pitch) |
| Fuel Capacity (MGO) | 74,250 litres |

ACCOMMODATION AND WATER

| | | |
|--------------|-----------------|-------------------|
| Total Berths | 17 | |
| Cabins | 5 Single | 6 Double |
| Other | Galley (1) | Showers (8) |
| | Lounge/Mess (1) | Heads (9) |
| Fresh Water | Capacity | Production |
| | 22,000 litres | 10,000 litres/day |

NAVIGATION

| | |
|-----------------------|--|
| Plotter | Furuno Navnet TZE TZT19F |
| AIS | Furuno F-170 & Jotron AIS SART |
| GPS | Furuno Denki GP500 mk 2 |
| Sounder | Furuno FC-1500L |
| Autopilot | Tokyo Keiki PR-2604-SS Furuno Navpilot 711C |
| Gyro/Magnetic Compass | Tokyo Keiki TG-6000, Tokimec SH |
| Navtex | NCR-300A |
| MF/HF SSB / VHF | Samyung SRG-3150DN, 2 x JHS-32A |
| LRIT/Inmarsat | C Cobham Sailor 3027 Mini-C |

ADDITIONAL SURVEY EQUIPMENT

Kongsberg EM 124 1°x 2° Deep Water System

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|---|
| Full Ocean Depth Multibeam (up to 11000m) |
| High-resolution bathymetry & backscatter |
| Swath coverage up to ~5.5x water depth |
| Dual swath capability for increased data density |
| Sub-bottom profiling capability (software-enabled via EM SBP) |

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