AUSTRALIAN SUBMARINE RESCUE VEHICLE (ASRV) REMORA

FACT SHEET

**Depth:** >500m  
**Angle:** up to 60°  
**Internal Pressure:** Up to 5 Bar  
**Max current:** 3 knots (constant current from surface to 500m+)  
**Power:** Unlimited (supplied through electro-fibre optic umbilical)  
**Cameras:** 6 including internal skirt, internal bell, 2 forward, 1 aft, 1 upper  
**Sonar:** 1 commercial sonar (300 MHz)  
**Navigation:** Own GPS, Acoustic tracking system (transponders placed on DISSUB and built into Remora)  
**Skirt dewatering capability:** To max operating depth independent of submarine  
**Skirt Compatibility:** NATO dimensions. Adaptor can be fitted to flanged arrangement at bottom of skirt.  
**Capacity:** 6 survivors + 1 attendant  

**Operators:**  
**Surface (civilian):** Remora  
**Operations:** SERS Manager, Pilot, Navigator, Ops Supervisor, Winch Operator, LARS operator, deck hands (umbilical float placement/removal) – 2 shifts permitting 24 hour operation.  
**Surface (Service):** Command & Control: Coordinator Rescue Forces – 2 x LCDR/CMDR, 2 x Communications numbers.  
**Medical:** Several Underwater medicine-qualified doctors and medics, Clearance Divers (Chamber operators, general hands).  
**In Bell:** Bell Operator (civilian)  
**Hyperbaric Treatment Capability:** 36 survivors in two 9m Decompression Chambers joined to 6m Transfer Under Pressure (TUP) chamber  
**Injured personnel capability:** Yes. Lift via harness and mountain rescue hoist.  

**Lower same arrangement into TUP Chamber**  
**Rescue Cycle time:** 3 hours  
**Portability:** Aircraft: An-124, C-5, 2 x C-141, 10 x C-130. System makes extensive use of ISO shipping container. No single component is too big for a C-130. Road: standard truck for ISO container  
**Mother Ship Requirements:** 300 m² clear deck space, preferably at least 8m wide  
**Surface Sea State Limitations:** Sea State 5 (significant wave height 4m)  
**Launch and Recovery System (LARS):** A Frame as part of system  
**A Frame:** Mounted to Deck Support Assembly (“H” Frame) which spreads load across several of the ship’s frames and permits rapid mobilisation once welded to deck  
**Electrical Power:** 440V 60Hz 3 phase 495 kW. One Genset incorporated in suite but could hire at embarkation port (2 sources of power required for redundancy)  

**Fig:** Artist’s Impression of Remora mated to DISSUB