

## F 333 Bartolomeu Diaz [Karel Doorman] - 2008 2x, Joao Belo replacement

### Portugal

Type: FFG - Guided Missile Frigate

Max Speed: 30 kt

Commissioned: 2008

Length: 122.3 m

Beam: 14.4 m

Draft: 4.3 m

Crew: 154

Displacement: 2800 t

Displacement Full: 3320 t

Propulsion: 2x Stork-Wärtsilä 12 SWD 280

V-12 Cruise Diesels, 2x Rolls-Royce Spey

RM-1A Gas Turbines, CODOG



### Sensors / EW:

- Telegon 4 - (AK 1200) ESM, HF/DF, Max range: 926 km
- IRSCAN - (Goalkeeper Target Indicator) Infrared, Infrared, Target Indicator Camera, Max range: 0 km
- SMART-S - (Goalkeeper Target Indicator) Radar, Radar, Air & Surface Search, 3D Medium-Range, Max range: 148.2 km
- AR-700A(V)1 APECS II - (ASP-2000) ECM, OECM & DECM, Offensive & Defensive ECM, Max range: 0 km
- LW.08 - (RAWL-2, LAR-2, Type 1022, SPQ-502) Radar, Radar, Air Search, 2D Long-Range, Max range: 333.4 km
- PHS-36 - (RAWL-2, LAR-2, Type 1022, SPQ-502) Hull Sonar, Active/Passive, Hull Sonar, Active/Passive Search & Track, Max range: 7.4 km
- AR-700A(V)1 - (ASP-2000, Assoc w APECS II) ESM, ELINT, Max range: 926 km
- Scout Mk.2 - (ASP-2000, Assoc w APECS II) Radar, Radar, Surface Search & Navigation, Max range: 44.4 km
- DSBV 62C - (Anaconda) TASS, Passive-Only Towed Array Sonar System, TASS, Passive-Only Towed Array Sonar System, Max range: 74.1 km
- STIR 180 [Radar] - (Sea Sparrow) Radar, Radar, FCR, Surface-to-Air & Surface-to-Surface, Short-Range, Max range: 59.3 km
- STIR 180 [IR Camera] - (Sea Sparrow) Infrared, Infrared, Target Tracking and Identification Camera, Max range: 185.2 km
- STIR 180 [TV Camera] - (Sea Sparrow) Visual, Visual, Target Tracking and Identification TV Camera, Max range: 185.2 km
- KH 1007 [Type 1007] - (Portugal) Radar, Radar, Surface Search & Navigation, Max range: 177.8 km

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### Weapons / Loadouts:

- 30mm Goalkeeper Burst [240 rnds] - Gun. Air Max: 1.9 km. Surface Max: 2.8 km.
- 12.7mm/50 MG Burst [10 rnds] - (Facility/Ship, No Anti-Air Capability) Gun. Surface Max: 1.9 km. Land Max: 1.9 km.
- Mk186 TORCH Flare [Seduction] - (1979) Decoy (Expendable). Surface Max: 1.9 km.

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- Mk182 SRBOC Chaff [Seduction] - (1979) Decoy (Expendable). Surface Max: 1.9 km.
- MU-90 Impact - (2003, Ex-Murene, Ex-A.290) Torpedo. Subsurface Max: 7.4 km.
- RGM-84D Harpoon IC - (1986) Guided Weapon. Surface Max: 138.9 km.
- RIM-7M Sea Sparrow - (1985) Guided Weapon. Air Max: 25.9 km. Surface Max: 25.9 km.
- AN/SLQ-25 Nixie - Decoy (Towed). Surface Max: 1.9 km.
- 76mm/62 Mk100 HE Burst [4 rnds] - Gun. Air Max: 2.8 km. Surface Max: 11.1 km. Land Max: 11.1 km.