**General characteristics**

* **Crew:** 11[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1)
* **Length:** 116 ft 10 in (35.6 m[[76]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-Lockheed_Specs-76))
* [**Wingspan**](https://en.wikipedia.org/wiki/Wingspan)**:** 99 ft 8 in[[76]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-Lockheed_Specs-76) (30.4 m)
* **Height:** 38 ft 8 in[[76]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-Lockheed_Specs-76) (11.8 m)
* **Wing area:** 1300 ft² (120.8 m²)
* [**Airfoil**](https://en.wikipedia.org/wiki/Airfoil)**:** NACA 0014-1.10 (Root) – NACA 0012-1.10 (Tip)
* [**Empty weight**](https://en.wikipedia.org/wiki/Manufacturer%27s_empty_weight)**:** 77,200 lb (35,000 kg[[76]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-Lockheed_Specs-76))
* **Loaded weight:** 135,000 lb (61,400 kg)
* **Useful load:** 57,800 lb (26,400 kg)
* [**Max. takeoff weight**](https://en.wikipedia.org/wiki/Maximum_takeoff_weight)**:** 142,000 lb (64,400 kg[[76]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-Lockheed_Specs-76))
* [**Powerplant**](https://en.wikipedia.org/wiki/Aircraft_engine)**:** 4[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) × [Allison T56](https://en.wikipedia.org/wiki/Allison_T56)-A-14[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) [turboprop](https://en.wikipedia.org/wiki/Turboprop)[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1), 4,600 shp[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) (3,700 kW) each
* **Propellers:** Four-bladed [Hamilton Standard](https://en.wikipedia.org/wiki/Hamilton_Standard) propeller[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1), 1 per engine
  + **Propeller diameter:** 13 ft 6 in (4.11 m)

**Performance**

* [**Maximum speed**](https://en.wikipedia.org/wiki/V_speeds#Regulatory_V-speeds)**:** 411 kn[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) (750 km/h)
* [**Cruise speed**](https://en.wikipedia.org/wiki/V_speeds#Vc)**:** 328 kn[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) (610 km/h)
* [**Range**](https://en.wikipedia.org/wiki/Range_(aeronautics))**:** 2,380 nmi radius[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) (4,400 km)
* [**Combat radius**](https://en.wikipedia.org/wiki/Combat_radius)**:** 1,346 nmi[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) (2,490 km) three hours on-station at 1,500 feet
* [**Ferry range**](https://en.wikipedia.org/wiki/Range_(aeronautics))**:** 4,830 nmi[[76]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-Lockheed_Specs-76) (8,944 km)
* [**Endurance**](https://en.wikipedia.org/wiki/Endurance_(aeronautics))**:** 16 hours[[76]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-Lockheed_Specs-76)
* [**Service ceiling**](https://en.wikipedia.org/wiki/Ceiling_(aeronautics))**:** 28,300 ft[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) (8,625 m)
* [**Rate of climb**](https://en.wikipedia.org/wiki/Rate_of_climb)**:** 3,140 ft/min (16 m/s)
* [**Wing loading**](https://en.wikipedia.org/wiki/Wing_loading)**:** 107 lb/ft² (530 kg/m²)
* [**Power/mass**](https://en.wikipedia.org/wiki/Power-to-weight_ratio)**:** 0.136 hp/lb at max gross (0.23 kW/kg)

**Armament**

* **Guns:** None
* [**Hardpoints**](https://en.wikipedia.org/wiki/Hardpoint)**:** 10 wing stations in total (3x on each wing and 2x on each wing root) and eight internal bomb bay stations with a capacity of 20,000 lb (9,100 kg)[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) and provisions to carry combinations of:
  + **Rockets:** None
  + **Missiles:**
    - [Air-to-surface missile](https://en.wikipedia.org/wiki/Air-to-surface_missile): [AGM-65 Maverick](https://en.wikipedia.org/wiki/AGM-65_Maverick), [AGM-84 Harpoon](https://en.wikipedia.org/wiki/AGM-84_Harpoon), [AGM-84 Standoff Land Attack Missile](https://en.wikipedia.org/wiki/Standoff_Land_Attack_Missile) (SLAM-ER)[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1)
  + **Bombs:**
    - [Depth charges](https://en.wikipedia.org/wiki/Depth_charge), [Mk 101 Lulu](https://en.wikipedia.org/wiki/Mk_101_Lulu) [nuclear depth bomb](https://en.wikipedia.org/wiki/Nuclear_depth_bomb), [MK20 Rockeye](https://en.wikipedia.org/wiki/CBU-100_Cluster_Bomb), [MK80 Series](https://en.wikipedia.org/wiki/Mark_80) (MK82, MK83, MK84) general purpose bombs, [B57 nuclear bomb](https://en.wikipedia.org/wiki/B57_nuclear_bomb) (US service only, retired 1993)
  + **Other:**
    - [Mk 44](https://en.wikipedia.org/wiki/Mark_44_torpedo) (mostly retired from service), [Mk 46](https://en.wikipedia.org/wiki/Mark_46_torpedo),[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) [Mk 50](https://en.wikipedia.org/wiki/Mark_50_torpedo), [Mk 54](https://en.wikipedia.org/wiki/Mark_54_MAKO_Lightweight_Torpedo) or [MU90 Impact](https://en.wikipedia.org/wiki/MU90_Impact) [torpedoes](https://en.wikipedia.org/wiki/Torpedo)
    - Mk 25, Mk 39, Mk 55, Mk 56, [Mk 60 CAPTOR](https://en.wikipedia.org/wiki/CAPTOR_mine) or Mk 65 Quickstrike [naval mines](https://en.wikipedia.org/wiki/Naval_mine)[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
    - [Stonefish naval mine](https://en.wikipedia.org/wiki/Stonefish_(mine)) (in Australian service)
    - Active and passive [Sonobuoys](https://en.wikipedia.org/wiki/Sonobuoy)

**Avionics**

* RADAR: [Raytheon](https://en.wikipedia.org/wiki/Raytheon) AN/APS-115 Maritime Surveillance Radar, AN/APS-137D(V)5 Inverse Synthetic Aperture Search Radar[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* IFF: APX-72, APX-76, APX-118/123 Interrogation Friend or Foe (IFF)[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* EO/IR: ASX-4 Advanced Imaging Multispectral Sensor (AIMS), ASX-6 Multi-Mode Imaging System (MMIS)
* ESM: ALR-66 Radar Warning Receiver, ALR-95(V)2 Specific Emitter Identification/Threat Warning
* [Hazeltine Corporation](https://en.wikipedia.org/wiki/Hazeltine_Corporation) AN/ARR-78(V) sonobuoy receiving system[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* Fighting Electronics Inc AN/ARR-72 sonobuoy receiver[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* IBM Proteus UYS-1 acoustic processor
* AQA-7 directional acoustic frequency analysis and recording sonobuoy indicators[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* AQH-4 (V) sonar tape recorder[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* ASQ-81 [magnetic anomaly detector](https://en.wikipedia.org/wiki/Magnetic_anomaly_detector) (MAD)[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* ASA-65 magnetic compensator[[77]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)
* [Lockheed Martin](https://en.wikipedia.org/wiki/Lockheed_Martin) AN/ALQ-78(V) [electronic surveillance receiver](https://en.wikipedia.org/wiki/Electronic_warfare_support_measures)[[77](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-NTC-77)

### Crew complement[[edit](https://en.wikipedia.org/w/index.php?title=Lockheed_P-3_Orion&action=edit&section=5)]

The crew complement varies depending on the role being flown, the variant being operated, and the country that is operating the type. In U.S. Navy service, the normal crew complement was 12 until it was reduced to its current complement of 11 in the early 2000s when the in-flight ordnanceman (ORD) position was eliminated as a cost-savings measure and the ORD duties assumed by the in-flight technician (IFT).[[1]](https://en.wikipedia.org/wiki/Lockheed_P-3_Orion#cite_note-USNavyFactFile-1) Data for U.S. Navy P-3C only.

Officers:

* three [Naval Aviators](https://en.wikipedia.org/wiki/Naval_Aviator)
  + Patrol Plane Commander (PPC)
  + Patrol Plane 2nd Pilot (PP2P)
  + Patrol Plane 3rd Pilot (PP3P)
* two [Naval Flight Officers](https://en.wikipedia.org/wiki/Naval_Flight_Officer)
  + Patrol Plane Tactical Coordinator (PPTC or [TACCO](https://en.wikipedia.org/wiki/TACCO))
  + Patrol Plane Navigator/Communicator (PPNC or NAVCOM)

NOTE: NAVCOM on P-3C only; USN P-3A and P-3B series had an NFO Navigator (NAV) and an enlisted Airborne Radio Operator (RO)

Enlisted Aircrew:

* two enlisted Aircrew Flight Engineers (FE1 and FE2)
* three enlisted Sensor Operators
  + Radar/MAD/EWO (SS-3)
  + two Acoustic (SS-1 and SS-2)
* one enlisted In-Flight Technician (IFT)
* one enlisted Aviation Ordnanceman (ORD position no longer used on USN crews; duties assumed by IFT.)

The senior of either the PPC or TACCO will be designated as the aircraft Mission Commander (MC).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Squadron Name** | **Insignia** | **Nickname** | **Aircraft** | **Notes** |
| [VP-1](https://en.wikipedia.org/w/index.php?title=VP-1&action=edit&redlink=1) | Vp-1.jpg | Screaming Eagles | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [NAS Whidbey Island](https://en.wikipedia.org/wiki/NAS_Whidbey_Island) |
| [VP-4](https://en.wikipedia.org/wiki/VP-4) | Vp-4 logo.jpg | Skinny Dragons | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [MCAS Kaneohe Bay](https://en.wikipedia.org/wiki/Marine_Corps_Base_Hawaii) |
| [VP-5](https://en.wikipedia.org/wiki/VP-5) | Vp-5 insig.jpg | Mad Foxes | [P-8A](https://en.wikipedia.org/wiki/P-8A) | [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-8](https://en.wikipedia.org/wiki/VP-8) | Vp-8 logo.jpg | Tigers | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants)  [P-8A](https://en.wikipedia.org/wiki/P-8A) | [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-9](https://en.wikipedia.org/wiki/VP-9) | Insignia of Patrol Squadron 9 (United States Navy).jpg | Golden Eagles | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [MCAS Kaneohe Bay](https://en.wikipedia.org/wiki/Marine_Corps_Base_Hawaii) |
| [VP-10](https://en.wikipedia.org/wiki/VP-10) | VP-10 patch.jpg | Lancers | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-16](https://en.wikipedia.org/wiki/Patrol_Squadron_16) | Vp16.jpg | War Eagles | [P-8A](https://en.wikipedia.org/wiki/P-8A) | [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-26](https://en.wikipedia.org/wiki/VP-26) | Vp26 insig.jpg | Tridents | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-30](https://en.wikipedia.org/wiki/VP-30) | Vp30.jpg | Pro's Nest | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants)  [P-8A](https://en.wikipedia.org/wiki/P-8A) | [FRS](https://en.wikipedia.org/wiki/Fleet_Replacement_Squadron)  [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-40](https://en.wikipedia.org/w/index.php?title=VP-40&action=edit&redlink=1) | Vp40 insig.jpg | Fighting Marlins | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [NAS Whidbey Island](https://en.wikipedia.org/wiki/NAS_Whidbey_Island) |
| [VP-45](https://en.wikipedia.org/w/index.php?title=VP-45&action=edit&redlink=1) | Vp45.jpg | Pelicans | [P-8A](https://en.wikipedia.org/wiki/P-8A) | [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-46](https://en.wikipedia.org/wiki/VP-46) | VP-46.png | Grey Knights | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [NAS Whidbey Island](https://en.wikipedia.org/wiki/NAS_Whidbey_Island) |
| [VP-47](https://en.wikipedia.org/wiki/VP-47) | Vp47 insig.jpg | Golden Swordsmen | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [MCAS Kaneohe Bay](https://en.wikipedia.org/wiki/Marine_Corps_Base_Hawaii) |
| [VP-62](https://en.wikipedia.org/w/index.php?title=VP-62&action=edit&redlink=1) | VP-62.png | Broadarrows | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | Reserve  [NAS Jacksonville](https://en.wikipedia.org/wiki/NAS_Jacksonville) |
| [VP-69](https://en.wikipedia.org/w/index.php?title=VP-69&action=edit&redlink=1) | Vp69 insig.jpg | Totems | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | Reserve  [NAS Whidbey Island](https://en.wikipedia.org/wiki/NAS_Whidbey_Island) |
| [VPU-2](https://en.wikipedia.org/w/index.php?title=VPU-2&action=edit&redlink=1) | Patrol Unit 2 (US Navy) patch.png | Wizards | [P-3C](https://en.wikipedia.org/wiki/P-3_Orion#Variants) | [MCAS Kaneohe Bay](https://en.wikipedia.org/wiki/Marine_Corps_Base_Hawaii) |