# Python-5 ™

## Full Sphere IR Air-to-Air or Surface-to-Air Missile



**Achieve a decisive advantage in air-to-air or air defense missions**

## Benefits

- Effective performance for very short range and near beyond visual range intercepts
- High probability of kill in various encounter conditions
- High resistance to countermeasures
- Adaptable to a wide range of aircraft
- Dual use missile (air-to-air and surface-to-air)

### Full Sphere IR Missile for Air-to-Air Missions

The Python-5 is the newest member of the Python family.

This fifth generation air-to-air missile provides the pilot engaging an enemy aircraft with a revolutionary full sphere launch capability. The missile can be launched from very short to beyond-visual ranges with greater kill probability, excellent resistance to countermeasures, irrespective of evasive target manoeuvers or deployment of countermeasures.

The Python-5's unique full sphere performance is achieved by a combination of Lock On-After-Launch (LOAL) and excellent acquisition and tracking capabilities. Its dual waveband Focal Plane Array (FPA) seeker and sophisticated algorithms enable acquisition of even small, low signature targets in look-down, adverse background and cloudy environments.

Successful developmental and operational testing of the Python-5 missile has already been carried out, including extensive captive carry evaluation and homing tests. Python-5 has demonstrated outstanding target detection and tracking.

### Innovative Interceptor for Air Defense Missions

The Python-5 complemented with the Derby BVR missile is used as an interceptor in the Spyder short and medium range air defense systems. Both Spyder systems are designed to engage and destroy a wide spectrum of threats, such as attack aircraft, bombers, cruise missiles, UAVs and UCAVs and stand-off weapons.

## Features

- Full sphere launch envelope from very short to beyond visual ranges

- Target Lock-On-Before and After Launch capability (LOBL & LOAL Modes)

- Acquisition of even small, low signature targets in look-down, adverse background and cloudy environments

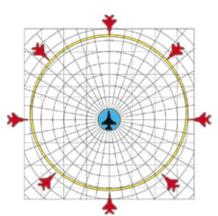- Fifth-generation imaging seeker with extremely high off-boresight capability


Python-5


Python-5  Seeker Imagery

## Technical Specifications

| Weight | 105 kg | 231.5 lb |
|---|---|---|
| Length | 310 cm | 122 in |
| Wing Span | 64 cm | 25.2 in |
| Diameter | 16 cm | 6 in |


Full Sphere Launch Envelope


Spyder ADS

### Technological Advancement

Python-5 combines advanced innovative technologies with operationally proven Python-4 components.

The missile incorporates a new dual waveband imaging seeker, advanced computer architecture, Inertial Navigation System (INS), sophisticated Infrared Counter-Counter-Measures (IRCCM) and sophisticated flight control algorithms. Python-5 maintains Python-4's unique aerodynamic airframe, INS, powerful rocket motor, warhead and proximity fuze.



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