

## Igla-S

By IASToppers | 2023-11-18 16:10:00



## Igla-S

Russia recently stated that it will supply **Igla-S** to the **Indian armed forces** through licenced production by an Indian private company.



[ref-sputnik India]

### **About the Igla-S:**

- The Igla-S is a **MANPADS** (man-portable air defense missile system missile system) that can be fired by an **individual** or a crew to bring down incoming **hostile aircraft**.
- It is based on "**fire-and-forget**" principle, has **high survivability** and stealth of combat operation.
- It is designed to engage all types of **visible fixed-** and **rotary-winged aircraft** as well as **small-sized air targets** like cruise missiles around the clock under thermal and background noise.
- It is an improved variant of the older versions of Igla missile systems, with a longer interception range of up to **6-km**.

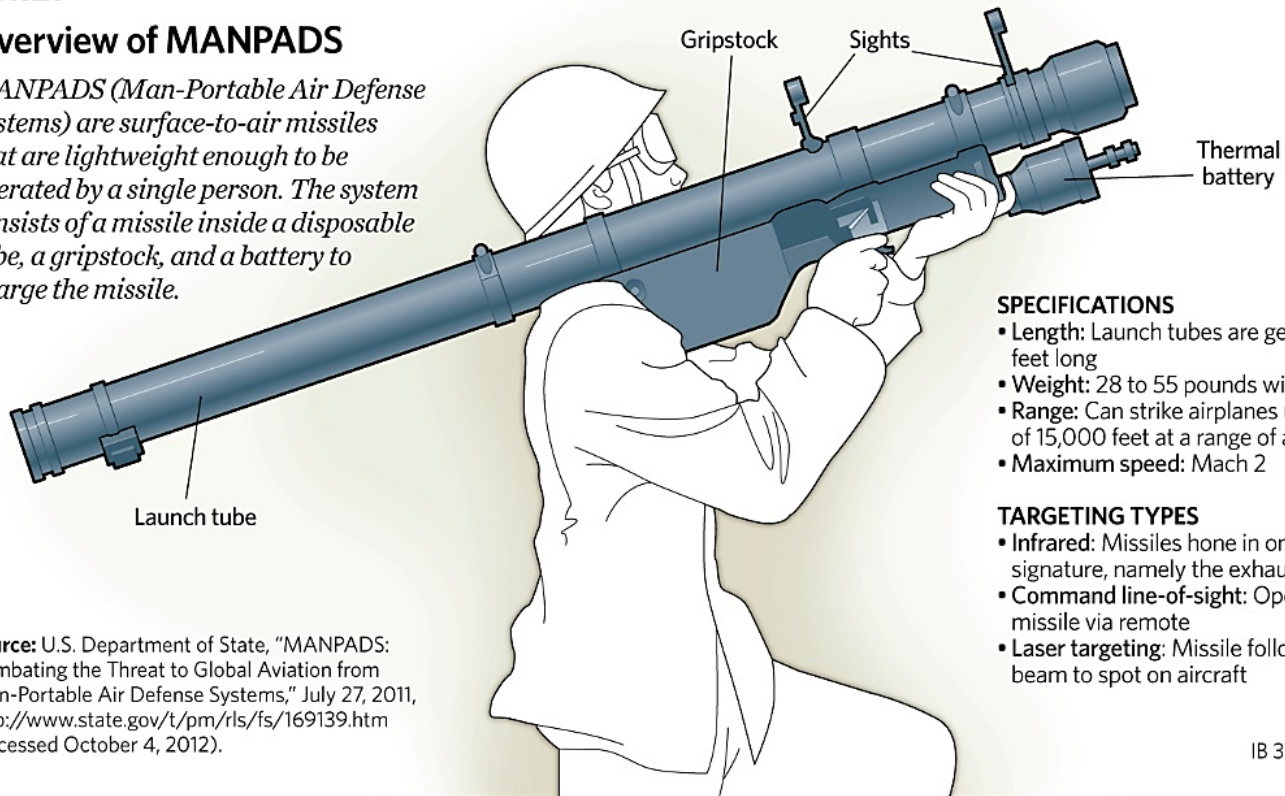
### **About the Man-portable air defense missile system (MANPADS):**

- The MANPADS are **portable** anti-aircraft missile systems designed to be carried and operated by an individual or a small team.
- It can be **shoulder-fired**, and hence easy to carry and operate.
- It is **low cost, light, compact** and **mobile**.
- It is effective against a range of aerial threats and can target **low-flying aircraft**, including helicopters and fixed-wing aircraft.
- It consists of a **launcher** and a **missile**.
- It is effective only over ranges **less** than about **7 kilometres**, and are used against aircraft that are within the view of the operator.
- It was first developed in the late 1950s.

FIGURE 1

## Overview of MANPADS

*MANPADS (Man-Portable Air Defense Systems) are surface-to-air missiles that are lightweight enough to be operated by a single person. The system consists of a missile inside a disposable tube, a gripstock, and a battery to charge the missile.*



**Source:** U.S. Department of State, "MANPADS: Combating the Threat to Global Aviation from Man-Portable Air Defense Systems," July 27, 2011, <http://www.state.gov/t/pm/rls/fs/169139.htm> (accessed October 4, 2012).

### SPECIFICATIONS

- **Length:** Launch tubes are generally four to 6.5 feet long
- **Weight:** 28 to 55 pounds with launcher
- **Range:** Can strike airplanes up to an altitude of 15,000 feet at a range of about 3.2 miles
- **Maximum speed:** Mach 2

### TARGETING TYPES

- **Infrared:** Missiles hone in on an aircraft's heat signature, namely the exhaust
- **Command line-of-sight:** Operator controls missile via remote
- **Laser targeting:** Missile follows aimed laser beam to spot on aircraft

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[ref-4G war]