



FLIGHT MANUAL

EA-7 EDGLEY OPTICA



REMASTER



Flightsim.to



Jonx Got Gravel 270° Inc MyKrode

Version: 1.0.3. (Flightsim.to, Official MSFS Marketplace)

NOTICE

This is not the EA-7 Edgley Optica (Freeware) by Jonx Simulations. Although Jonx is a developer of the Got Friends Group, he has chosen to NOT support the freeware version following the release of this payware remaster. Got Friends thanks you for your support!

Introduction

The EA-7 Edgley Optica started out as Jonx's second Microsoft Flight Simulator development effort. Originally released as an individual project in early 2021, the EA-7 Edgley Optica was the first Edgley Optica to become available for Microsoft Flight Simulator. It was released as freeware and gained a grand total of over 48,000 downloads during its short lifetime. After the release of the Gee Bee R3 Special (Got Friends' first payware aircraft) the team decided to combine their skills and give the Optica a rebirth. The now EA-7 Edgley Optica (Got Friends Remaster) was built from the ground up. Fully remodeled, re-textured, re-coded and re-imagined for a more modern simulation than other competitors provide. We started development in December 2021 by stripping down the original Optica. We are working hard to make this the most enjoyable sightseeing experience in the simulator. After hundreds of hours spent in development, the EA-7 Edgley Optica has been finely tuned to be the best Edgley Optica in any simulator to date. We are excited to see the community reception and we have also submitted this aircraft to Asobo for the in-game marketplace on both PC and Xbox.

History

Combining the visibility of a helicopter with outstanding slow-flying capabilities, the original concept for the Edgley EA7 Optica was as a three-seat touring aircraft. Designer John Edgley, at that time began the final aerodynamic design in 1974. The first flight was made on 14 December 1979. The engine drives a five-bladed fixed-pitch ducted fan, and the Optica is thought to be the world's quietest powered aircraft. Mounting the whole cockpit assembly ahead of the fan and engine gives the pilot and passengers 270° panoramic vision, plus almost vertical downward vision; the cockpit canopy design allows photography through the panels. Its internal cabin permits three-abreast seating, while baggage space and positions for mounting specialized observation equipment are provided behind the seats and in the unrestricted floor area in front of the two passenger seats. Roles for the Optica are virtually unlimited, from the obvious aerial photography and surveillance patrols to traffic reporting, powerline inspection etc. and it has the ability to perform much of a helicopter's work with fixed-wing economy and range.



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Specifications:

Max Permitted All-Up Weight	2,899 lb / 1,315 kg
Empty Weight	2,090 lb / 948 kg
Pax	1 Pilot, 1 Co-Pilot, 1 Passenger (or Pets)
Wingspan	39.33 feet / 12 meter
Wing area	170.5 sq ft / 15.84 sqm
Length	26.77 feet / 8.15 meter
Trim Available	Elevator (Pitch), Aileron (Roll)

Performance:

Max Permitted Speed	115 knots / 213 kph
Service Ceiling	14,026 feet / 4,275 meter
Max Range	656 miles / 1,056 km

Speeds & Climb:

Never Exceed Speed	140 knots / 259 kph
Stall Speed	58 knots / 108 kph
Cruise Speed	70 knots / 130 kph
Rate of Climb	810 ft/min / 4.1 m/s



Main Console:

The main console is equipped with a Airspeed Indicator, Attitude Gauge, Altimeter, Turn Coordinator, Directional Heading Indicator, Vertical Speed Indicator, Tachometer, Manifold Pressure Gauge, Course Deviation Indicator, GNS 530 Navigation, GTX 330 Transponder, KAP140 Autopilot System, and a **GTN750 (Not Pictured)(Separate Downloads Required)**.



Upper Main Console:

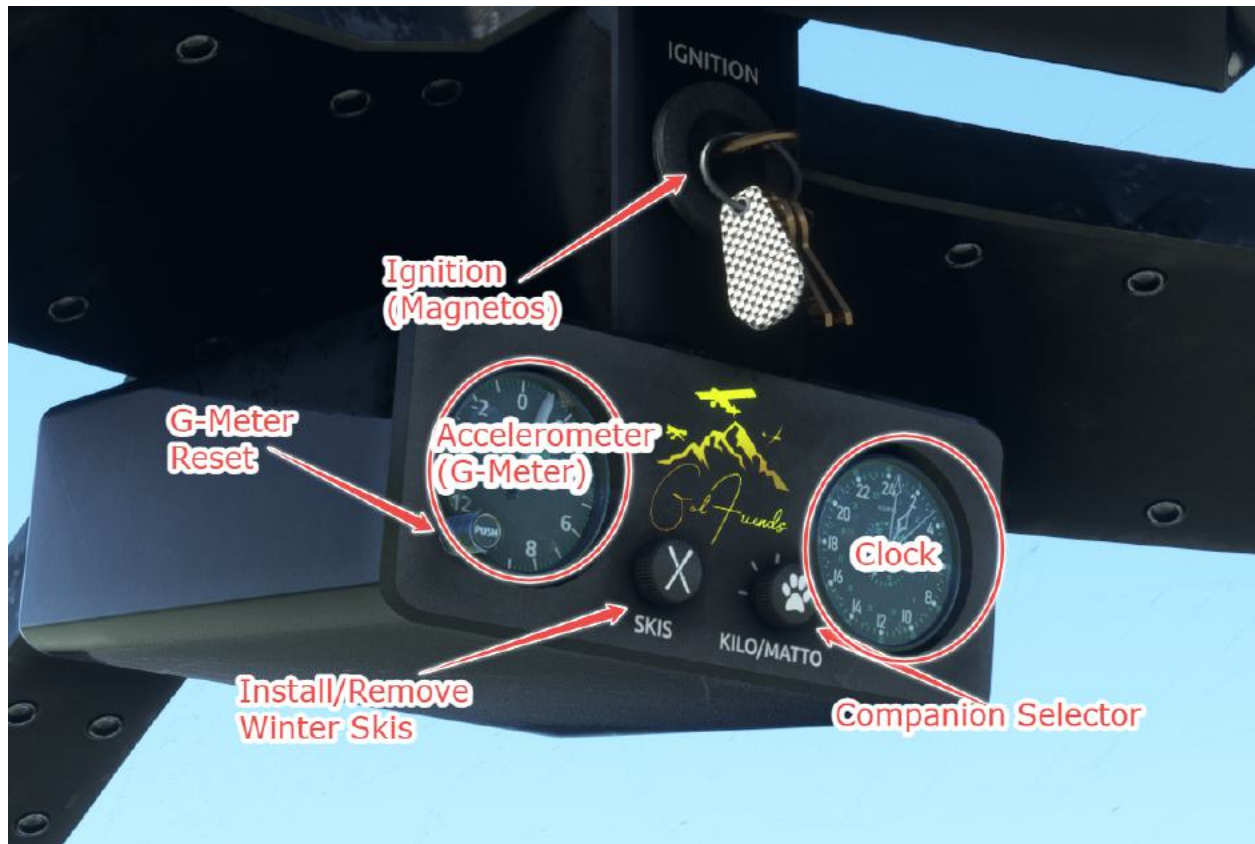




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Upper Console:

The Upper Console contains all the “Custom” features included in this Edgley Optica rendition. This includes the Winter Kit Switch allows you to install or remove the landing gear skis for winter take-offs and landings. Finally, the Companion Switch allows you to select Kilo (Dog), Matto (Cat), Both or None for your accompanying companion. Also located on the Upper Console is an Accelerometer and Analog Clock.



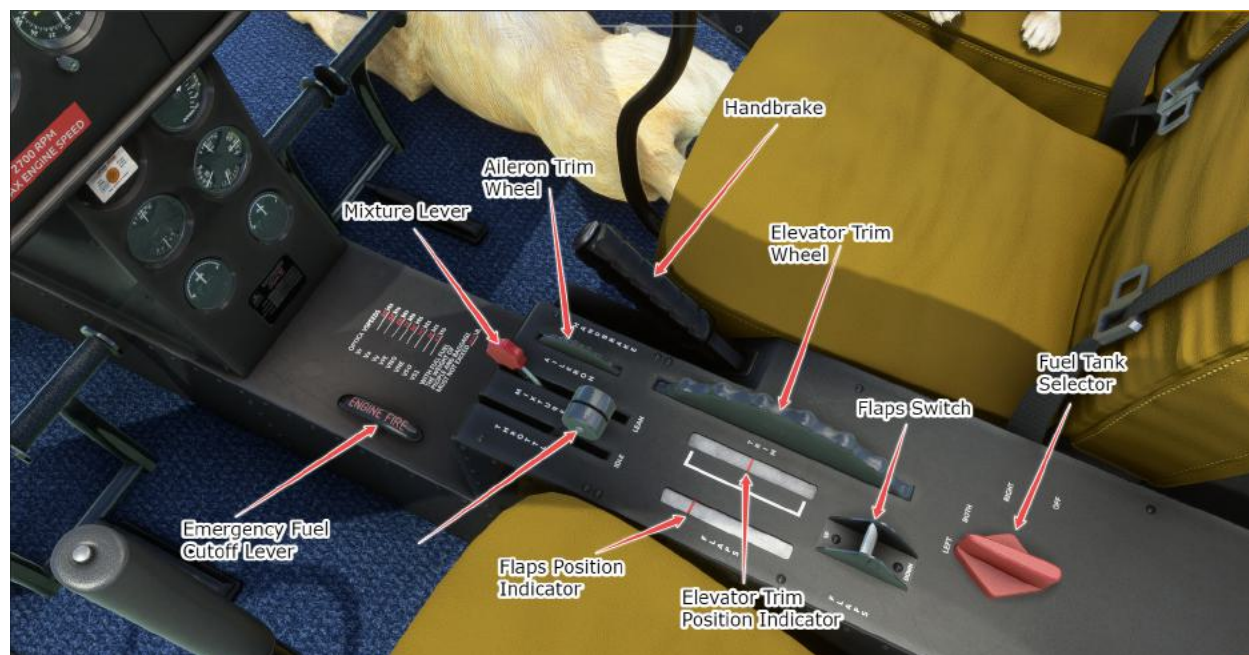
WARNING

The Winter Skis have been designed to simulate low braking conditions. If you plan on landing with Snow Skis Installed, please take extreme caution on the length of your designated runway!



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Lower Console:



Additional Clickables:





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Circuit Breakers:



Checklist:

NOTE

Checklists are available in-game under the "Checklist Toolbar" option. Each item on the checklist can be "Observed" using the "Eye" icon next to the item. The camera will slew to the indicated checklist item and highlight the component blue.





KAP140 (Auto-Pilot):



Basic Use:

- On the Ground, **HOLD** the Baro Button and ensure the proper Barometer is Set.
- Turn On Auto-Pilot after you've at least reached **1,000 ft.**
- When you turn on auto-pilot, it will capture your **CURRENT** vertical speed. Take extreme caution so you aren't placed in a high climb/descent.
- Setting and Reaching a Target Altitude:
 - Use your **BIG** and/or **SMALL** Knobs to Set Altitude.
 - Ensure ALT (Altitude Hold Mode) is **OFF**.
 - Set Vertical Speed **UP** or **DOWN**.
 - You will begin your Altitude Change.
 - Once Targeted Altitude is Reached, Vertical Speed will drop to **ZERO**.
 - Once Zero Vertical Speed and your Target Altitude is reached, auto-pilot **AUTOMATICALLY ENABLES ALT** (Altitude Hold Mode).
 - To make another Altitude Change, ensure you once again **TURN OFF ALT** (Altitude Hold Mode) after you select Target Altitude. Then Set Vertical Speed.
- Remember, the Heading Knob on the Directional Indicator does not only need to be **SCROLLED** on the mouse to work, you may also **CLICK AND HOLD** to set HDG faster.

NOTE:

The KAP140 Auto-Pilot system built into MSFS may not represent real world functionality. As we wait for Asobo to fix their KAP140 Templates, please stay patient as you may experience some bugs in-flight. If they ever get too unstable for the Edgley Optica, we will consider writing our own auto-pilot scripts. Thank you for understanding.

The KAP140 also has a great instructional video for beginners at: [Autopilot Overview for IFR | KAP 140 Autopilot | IFR Training - YouTube](#) by FlightInsight!



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Support, Community, & Downloads:

- GTN750 & WTT Replacement Package: Available at <https://flightsim.to>
- GTN750 Official Download: Available at <https://pms50.com/msfs/>
- Additional Community Liveries: Available at <https://flightsim.to>
- Official Paint Kit: Available at <https://flightsim.to>
- Official Flight Manual: Available at <https://got-friends.com/documentation>

A Big Thanks

Finally and most importantly, a big thanks from **Got Gravel, Jonx, 270 Inc, and Mykrode** for your support and for purchasing this remastered package of the EA-7 Edgley Optica.

This project would also not have been accomplished without the help of these individuals:

Maple: *Teaser Trailer Footage*

Youtube Channel Link: (<https://www.youtube.com/channel/UC4Oph2fyDARQW1aveg3z5MQ>)

Rotornut44: *Critical Livestream Testing*

PMS50: *GTN750 Integration Support*

Asobo: *General Assets & SDK*

Got Gravel Beta Testers: *Extensive Testing*

Flight Simulator Freelance Society: *Various Support*

"Without the support of the community and other 3rd Party Developers, Got Friends would still be in a twist today. Thank you for helping us unwind our creativity!"

