

Norden Bombsight Manual Pd



autopilot. Norden has two main parts. The bombsight base (also called stabilizer) and the bombsight head which is mounted on top of the base. The head can be rotated left & right with the new "sight turn left" and "sight turn right" keys. Head movement is directly linked to the bomber's C-1 autopilot. When C-1 autopilot is turned on (old level stabilizer key), the plane will fly straight and level when the head is centered. If head is rotated to right, plane will keep turning right until the head is centered again.

New "toggle Norden bombsight clutch" key is used to clutch (lock) the head to the horizontal gyro at the base. When clutch is on, the bombsight head tries to maintain it's current heading. When clutch is off, head can be rotated freely.

### Norden operation:

- Increase the sight elevation with "increase sight distance" key and use "sight turn left" and "sight turn right" keys as bombardier to find the target.
- 2. Put crosshair over the target and engage bombsight clutch. Now target remains stationary under crosshair when plane turns.
- Turn C-1 autopilot on (old level stabilizer key). Plane starts to turn towards the target. In case the autopilot is damaged and non-functional, the pilot should perform the turn manually so that PDI needle is centered.
- 4. Eliminate wind drift after the plane has turned towards target and flying straight and level. If plane is drifting to right, apply positive drift angle with "sight drift to right" key. This means that the plane will actually turn to left against the wind while the crosshair stays over the target.
- When the clutch is engaged, the bombardier can make very small and accurate course corrections with the sight turn left" and "sight turn right" keys. Course corrections should not be made just prior to bomb release.
- 6. Rest of the steps are same as Lotfe steps 4 to 9.

# OPB-1 (SB-2, Pe-2, IL-4)

OPB-1 basic functionality has stayed same but now player has ability to align the sight to true vertical. Player should map four new keys to do this. "OPB bombsight tilt left", "OPB bombsight tilt right", "OPB bombsight tilt forward" and "OPB bombsight tilt back". Pressing and holding these new keys will tilt the bombsight and move the bubble. Bombardier should always keep the bubble centered during bombing run.

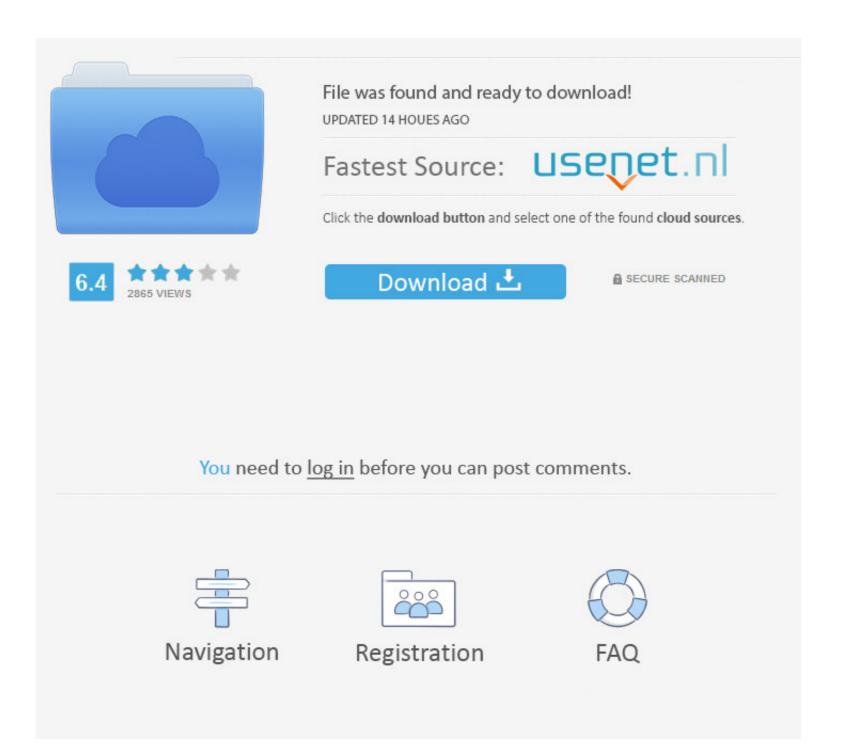
# OPB-1 operation:

- 1. Establish course to target. Increase the sight elevation with "increase sight distance" key to search the target in front of the plane. Bombers that have OPB-1 sight do not have any autopilot that bombardier could control with the bombsight. Therefor the pilot needs to do the course changes by turning the plane. In offline play you obviously are the bombardier and pilot at the same time, so you need to turn on the level stabilizer (even the planes didn't have one) to be able to perform successful bombing. You can make small course changes with rudder trim keys while looking through the scope.
- If you are flying as bombardier online and someone else is flying as pilot, you
  can signal the pilot to turn left, right or level the plane with new "PDI light
  left/right/center" keys. Pressing these keys will light a lamp in pilot's cockpit
  showing him which way to turn.
- Eliminate wind drift if needed. This is little more difficult than with Lotfe & Norden since there is no autopilot to make the required course change. You need to turn the plane against the wind and use "sight drift to left/right" keys to turn

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