

ComancheZOOM for Wednesday February 1, 2023

## **Laser Altimeter "New Features to Prevent Gear-Up Landings"**

Tonight was an explanation of the Gear Warning System New Feature of the NORSEE Certified Landing Height System. This Zoom was eligible for WINGS credit.

Since the Landing Height System by MicroKit Solutions was introduced, new features have been added, making an accidental gear-up landing even less likely. Nidal Robb will explain the newly featured Gear Warning System of the Non-Required Safety Enhancement Equipment (NORSEE) Certified Landing Height System. The Gear Warning System now is FAA certified to be hooked to a gear indicator or gear switch itself to monitor the status and position of the retractable landing gear. Once the Landing Height System (LHS) detects the ground below, starting at 220 ft, it provides an audio gear warning announcement to the pilot through the audio panel/headset. This is a much better and safer solution than an outdated buzzer or horn. The warning is repeated every 4 seconds while the gear is still up and the airplane is 220 ft AGL or below. The warning stops if a positive rate of climb is registered or the gear goes down.

In addition to providing an audio reminder to lower the gear, the Landing Height System will call out altitudes while on final approach, beginning with 220 feet, 100 feet, 70 feet, and so on until reaching one foot above the runway surface. This feature assists in human factors such as optical illusions with short, wide, or long narrow runways, dips, humps, etc., and is a safety factor when landing at unfamiliar airports or airports with poor runway lighting (i.e. night).

The VBox is like a black box for GA aircraft. The VBox records the audio from the intercom system – everything that comes through the pilot's headset - and can be played back as a review of the flight, downloaded, or erased. The VBox PLUS records the voice, but also the output of an engine monitor or GPS, making it a powerful tool for post-flight trouble shooting.

To join the Group Buy list go to [/Forms/NE\\_LHS\\_GroupBuy](#).

< MAY BE NOT READY YET >

To see/hear the recordings click on a link below:

- <http://meetings.northeastcomanche.org/zoom/2023-02-01/video.mp4>
- <http://meetings.northeastcomanche.org/zoom/2023-02-01/audio.m4a>

To read the Chat text click on this link:

- <http://meetings.northeastcomanche.org/zoom/2023-02-01/chat.txt>

To see pricing for the Group Buy offer go to:

- <http://meetings.northeastcomanche.org/zoom/2023-02-01/LaserHeightSystem-GroupBuy.pdf>

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