

TADPOLE 2.0

The TADPOLE (Tactical Airfield-Deployable Precision Optical Landing Equipment) system was developed in partnership with Test Flight Academy South Africa (TFASA). It is based on the same system that is used for Field Carrier Landing Practice during the training of naval aviators. The system uses the operational methodology of the Fresnel Lens Optical Landing System, as employed on aircraft carriers.

Using this system, a pilot can monitor and adjust his final approach angle by the position of a central “ball” light, relative to two rows of datum lights. When the central “ball” is aligned with the datum lights, the aircraft is on the correct approach angle. The intensity of the lights is adjustable to allow for daytime or nighttime operation.

Enabled by the system’s mobility, and following appropriate training by a qualified training provider, the system can also be used as a rapid-deployment guidance aid at forward airfields.

Landing System



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In partnership with



FEATURES

- Visibility Range:
Up to 1nm (~1.8km) in daylight conditions, with adjustable intensity for low-light operation.
- Azimuth Spread:
20° to both sides of the runway centerline.
- Approach Angle:
In-field adjustable between 2° and 5°.
- Individual "ball" light vertical spread:
0.62°
- The number of "ball" lights:
Landing system supplied with nine lights but can be adapted according to operational requirements.
- Command operated wave-off lights to signal a mandatory go-around.
- Landing system deployable in minutes.
- The battery operates for 12 hours+
- System fitted with a deep cycle battery and charging system.
- Trailer licensed and road-worthy for South African roads.
- The trailer has an integrated adjustable stabiliser and levelling system.
- Trailer Dimensions (LxWxH):
8.72m x 2.32m x 2.76m
- Trailer Weight:
3500kg
- Optional Add-ons:
- Embedded camera to record aircraft approaches.
- Activation from aircraft VHF radio.

* Specifications may change due to continuous product development and improvement.



Too High



Slightly High



On Glide Slope



Slightly Low



Too Low