

# SIMERA

## technology group

**TELEPHONE:** +27 (0) 21 852 6450

**FACSIMILE:** +27 (0) 86 763 8372

**EMAIL:** info@simera.co.za

**PHYSICAL ADDRESS**

End Old Paardevlei Road  
Somerset West  
7130

**POSTAL ADDRESS**

P O Box 668  
Somerset Mall  
7137

### TADPOLE SYSTEM



#### Description

The Tactical Airfield-Deployable, Precision Optical Landing Equipment (TADPOLE) system was developed for naval aviator Field Carrier Landing Practice (FCLP). The system uses the operational methodology of current optical guidance systems used on aircraft carriers where the pilot can confirm his approach angle with inspection of a ball (white light) relative to a datum line (green lights). The system intensity is adjustable to allow for day time or night time operation and beam nominal angle and dispersion can be tailored to suit operational needs.

In addition to Carrier Landing Practice, the system can be used at Tactical Airfield Units, for Emergency Airfield Applications or General Pilot Precision Approach Training.

5 Years of operational experience at an ICAO standard airfield.

#### Key Features and Specifications

- Range: At least 1.8km bright sunlight and intensity adjustable for low light operation
- Azimuth Spread: 40 degrees
- Total Vertical Spread: Approximately 1.8 degrees
- Nominal Elevation (centre ball): User adjustable, nominally 3.5 degrees
- Quantity Elevation Lights: Nominally 7, can be increased for greater precision
- Deployable in minutes
- Battery operated for period of 12 hours
- Deep cycle battery and charging system
- Radio switchable, from approaching aircraft comms radio
- Optional embedded camera to create aircraft approach graphs
- Easily ground and air transportable

#### System Components

- Foldable datum bar, light column and wave-off lights
- Optional embedded camera to create aircraft approach graphs
- Trailer licenced and road worthy for South African roads
- Inclinator for easy glide path selection
- Straps and anchors included for stable deployment

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



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