Instrument Landing System

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Overview

- Principle of Operations
- Localizer
- Glideslope
- Marker beacon
Principle of Operations

- Two different radio frequencies
- Aircraft measures both DDM
- On centerline measures same strength of signals
Localizer

- Horizontal guidance
- 10 degree angle useful to 18 NM
- 35 degree angle useful to 10 NM
Glideslope

- Vertical Guidance
- Standard slope is 3 degrees
- Usable to 10 NM
- Intersects MM at about 200 feet
Marker beacons

- OM indicates where aircraft will intercept glide path

- MM shows about 3,500 feet from landing threshold

- IM indicates DH
Summary

- Two different frequencies per system
- Localizer for horizontal
- Glidepath for vertical
- Marker beacons
References

- http://www.aircraftmech.com/avio.html
- FAR/AIM