Argos Ingegneria

About the Company

- Airfield Ground Lights Photometry Systems

- RADAR design

For more information visit our website: www.argosingegneria.com

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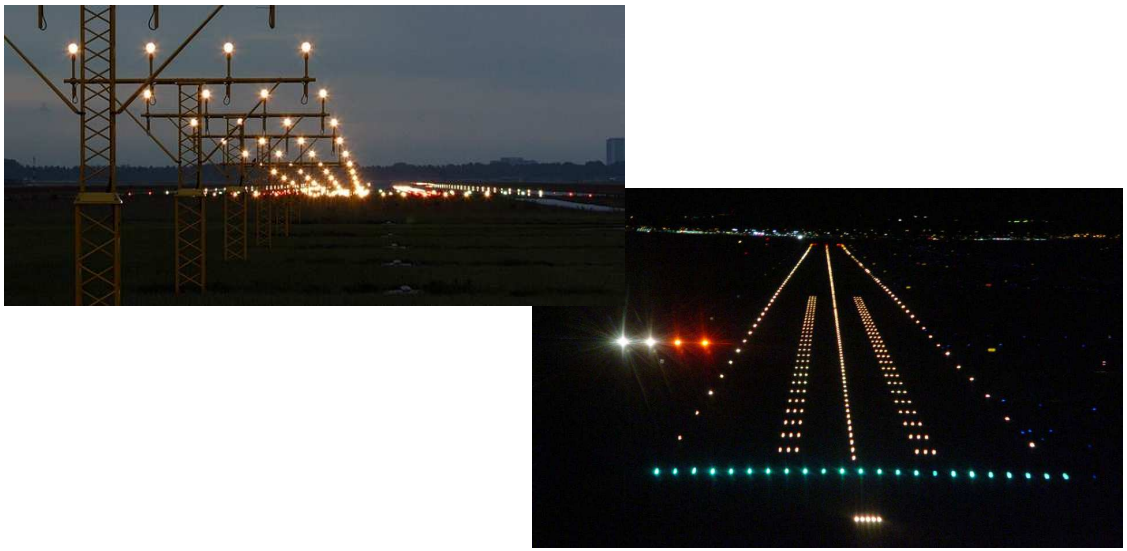
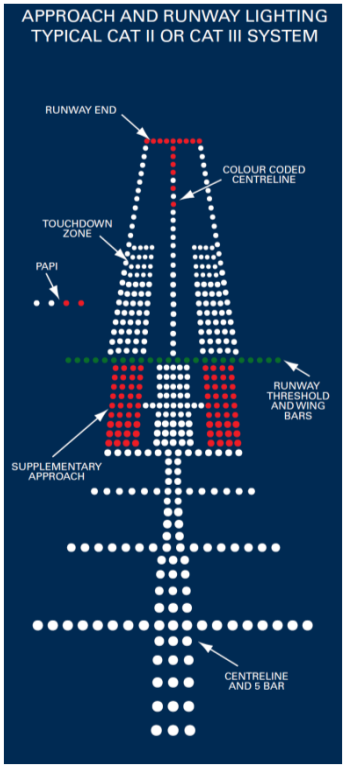
Classification of the AGL measurements-1

Airfield Ground Lighting Systems (AGLS) are complex systems which may assume various configurations and are of crucial importance for the air navigation





A significant share of airport security relative to the operations in both nighttime and daytime under low visibility depends on the operational efficiency of AGL

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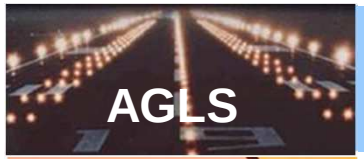
Classification of the AGL measurements-2

	Runway, Taxi & Apron Lighting System
	Precision Approach Path Indicators
	Verification of the fixtures post-repair and/or before installation
	Illuminated Vertical Signs

Regulatory Framework – 1 – Italian CAA application (Ref. 0049122/DIRIGEN/ATA on August 1st 2008)

Frequency of periodical photometric measurements - AGL		
Annual	**Half-year**	**Quarterly**
• ***Non precision approach*** runway • ***Light*** density airport traffic	• ***Non precision approach*** runway • ***Light*** density airport traffic • High probability of adverse weather conditions • Intrusion of sand or dirt in case of wind	• ***Cat I*** precision approach runway • ***Medium or High*** density airport traffic
	• ***Non precision approach*** runway • ***Medium or High*** density airport traffic	• ***Cat II*** precision approach runway
	• ***Cat I*** precision approach runway • ***Light*** density airport traffic	• ***Cat III*** precision approach runway

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Regulatory Framework – 2 – Italian CAA application (Ref. 0049122/DIRIGEN/ATA on August 1st 2008)

Frequency of periodical photometric measurements – PAPI	
Annual	**Half-year**
• ***Non precision approach*** runway	• ***Cat I*** precision approach runway • ***Light*** density airport traffic • High probability of adverse weather conditions • Marine or polluted by dust environment
• ***Cat I*** precision approach runway • ***Light*** density airport traffic	• ***Cat I*** precision approach runway • ***Medium or High*** density airport traffic
	• ***Cat II*** and ***Cat III*** precision approach runway
	• Any cathegory runways with PAPI base on soft ground

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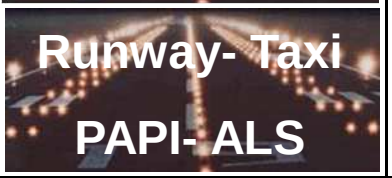
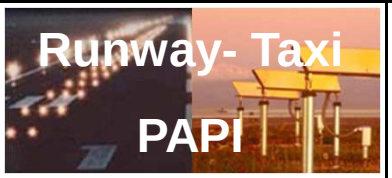
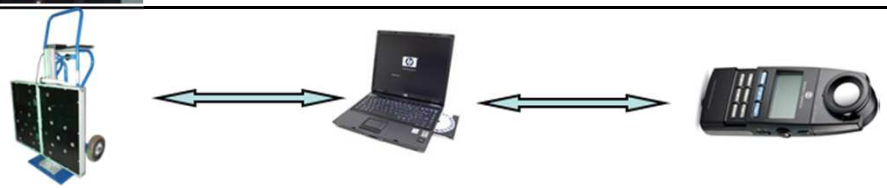
ARGOS SMF FAMILY AGL MEASUREMENT SYSTEMS

Product	Lights	Systems & Calibration tools
SMF/PAPI		
SMF/M		
SMF/L		
SMF/Fix		
SMF/SIGN		

SMF/STATIC – New AGL Monitoring System

SMF/STATIC is a new AGL monitoring system based on real-time image acquisition and analysis able to:

- Real-time “On/Off” monitoring of AGL
- Real-time control of the photometric characteristics

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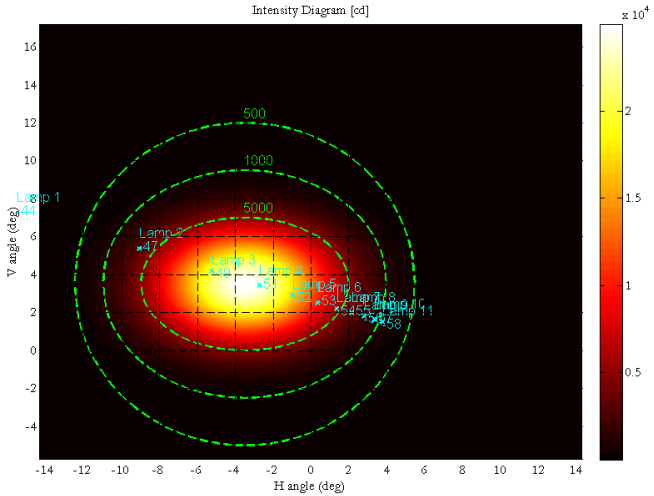
SMF/STATIC – System Architecture

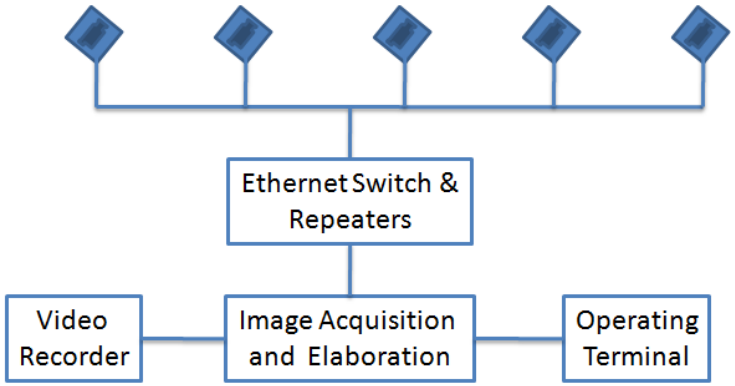
*H*igh sensitivity cameras are placed on suitable airfield locations.

The cameras are connected to a central server via dedicated Ethernet network.

Images are collected by a video recorder and real time elaborated by the server workstation.

In Operative Room, a dedicated Human Machine Interface displays the AGL real status for the Operator.





Radar Design

- Antenna design and prototype
- RF Components: design and prototype
- RF Performance Certifications: BOF Methodology
- Upgrade of existing radar receiver section

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Antenna: Design and prototype

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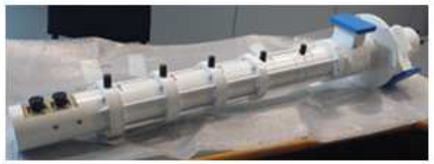
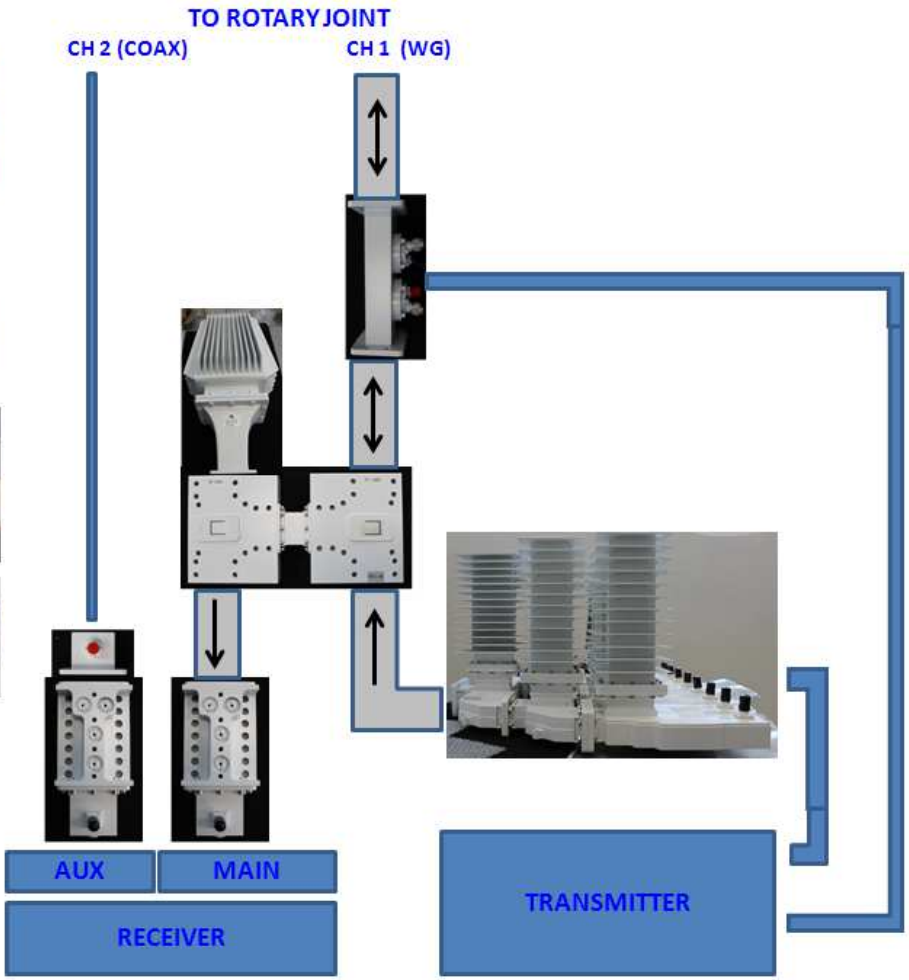
RF Components: Design and prototype





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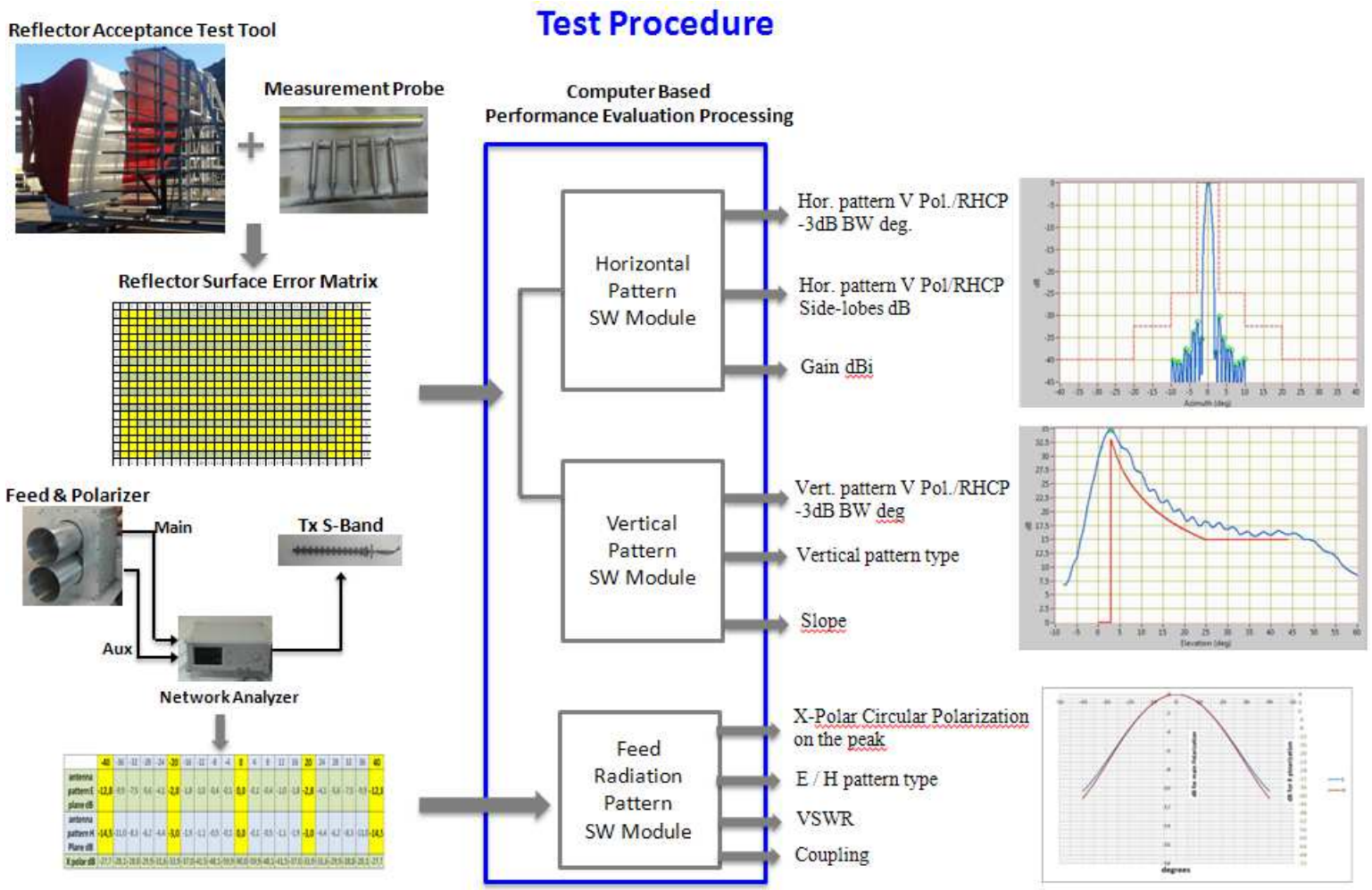
RF Performance Certifications: BOF Methodology (1)



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Upgrade of existing radar receiver section