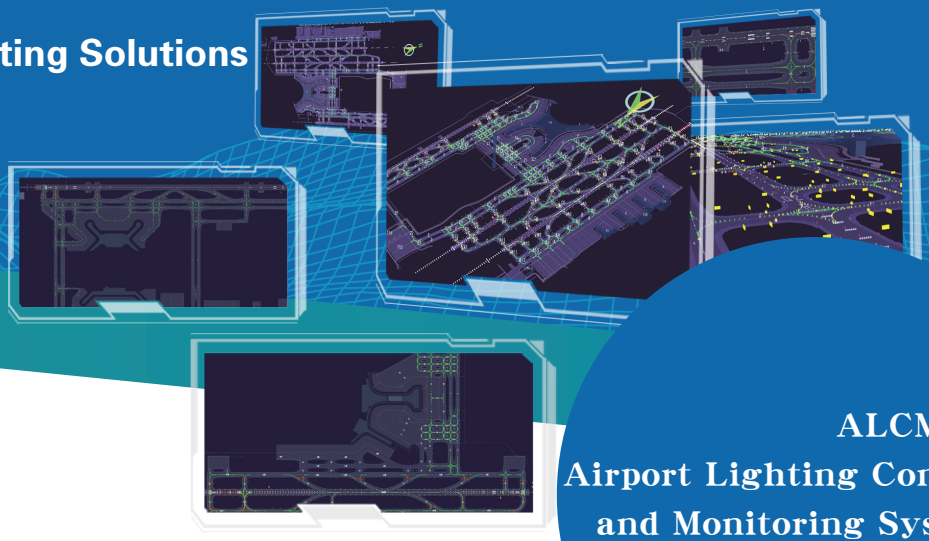
DZS Europe

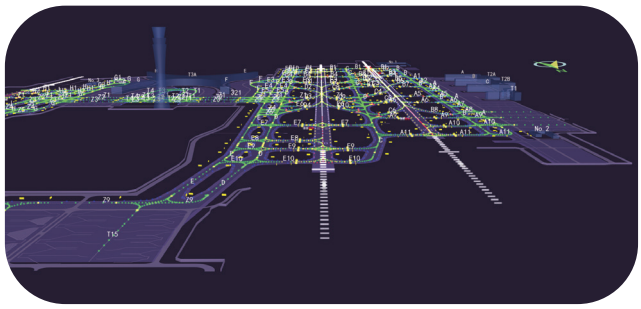
Airfield Ground Lighting Solutions



ALCMS-C
Airport Lighting Control and Monitoring System

COMPLIANCE

ICAO	• Annex 14 Volume I
	• DOC 9157 ADM Part 5
EASA	• CS–ADR–DSN
FAA	• AC 150/5345–56
CAAC	• AC–137–CA–2019–08



FEATURES

SAFETY

Prevention of intensity control errors

- Commands will be resent automatically in case of failure
- Verification of commanded step and delivered step
- Verification of intensity steps on the circuits of the same designation

Anti–misoperation

- Screen lock
- Double confirmation of key operations
- Voice prompt on important operations

RELIABILITY

- Distributed and modularized system structure
- Redundant hardware and software providing swapping with no disturbance
- 1000M LAN
- Multiple fail–safe modes
- Dedicated Industrial–grade substation equipment
- 48 months data storage minimum
- Intelligent event analysis and processing
- Choice of 300+ airports worldwide

FRIENDLY HMI

- Multi–view 2D/3D display
- 100% representation of actual location of lights in the flight zone
- 360–degree vector zooming in and out
- Alarm classification
- Human voice prompt
- Customized to the specific needs of users
- Multilingual interface

TECHNICAL DATA

Operating Temperature • 0℃~+40℃

From command input until acceptance or rejection < 0.5s
From command input until control signal output to regulator or other controlled unit < 1s

For system to indicate that a control device has received the control signal < 2s
Back indication to tower display of regulator initiation < 1s

Humidity • 0~90%

Switch–over time to redundant components in event of system faults < 0.5s

Automatic detection of failed units and communication lines of the monitoring system < 10s

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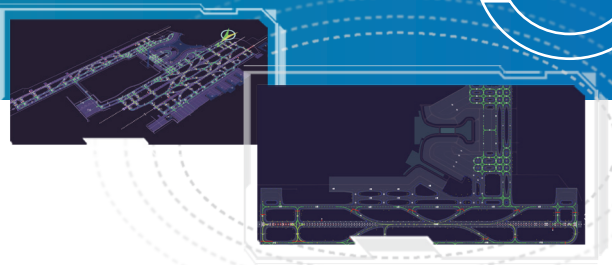
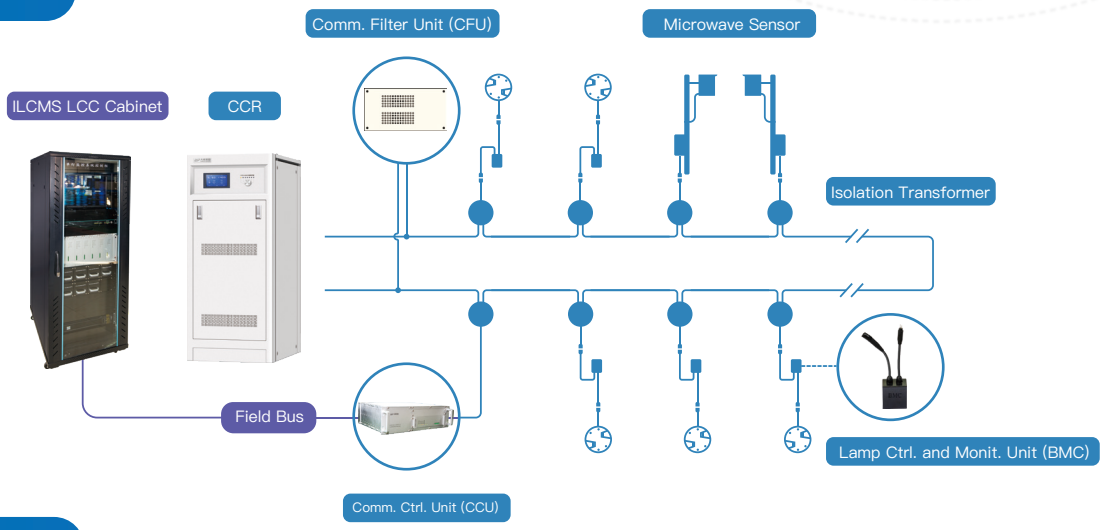
ALCMS-C Airport Lighting Control and Monitoring System



INDIVIDUAL LAMP CONTROL AND MONITORING SUBSYSTEM

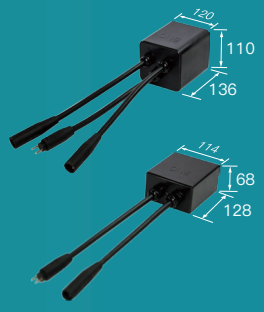
ARCHITECTURE



FEATURES

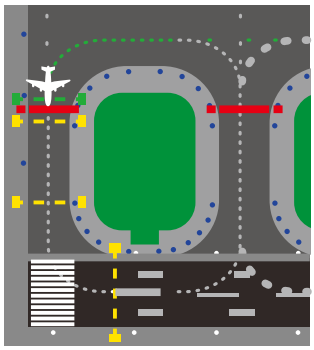
- A-SMGCS oriented design
- Power line carrier communication, no dedicated cabling required
- Response time＜2s
- Detection and control accuracy≥99.98%
- High fault tolerance communication with lower rate of false alarms
- Military-grade components and strong environmental adaptability
- No special requirements for isolation transformers
- Compact Lamp Ctrl. and Monit. Unit, fitting in the isolation transformer box
- Clear indication of Lamp Ctrl. and Monit. Unit fault or lamp fault
- Multiple interfaces of international compliance
- 10000+ nodes application in a single project

Lamp Ctrl. and Monit. Unit (BMC)



Lamp power (@6.6ARMS)	≤300W
BMC power (@6.6ARMS)	＜4.5W (single output) / ＜9W (dual output)
Operating temperature	-40℃~+85℃
Weight	1.5kg (single output)/ 2.9kg (dual output)
Protection class	IP68

Stop Bar Control



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