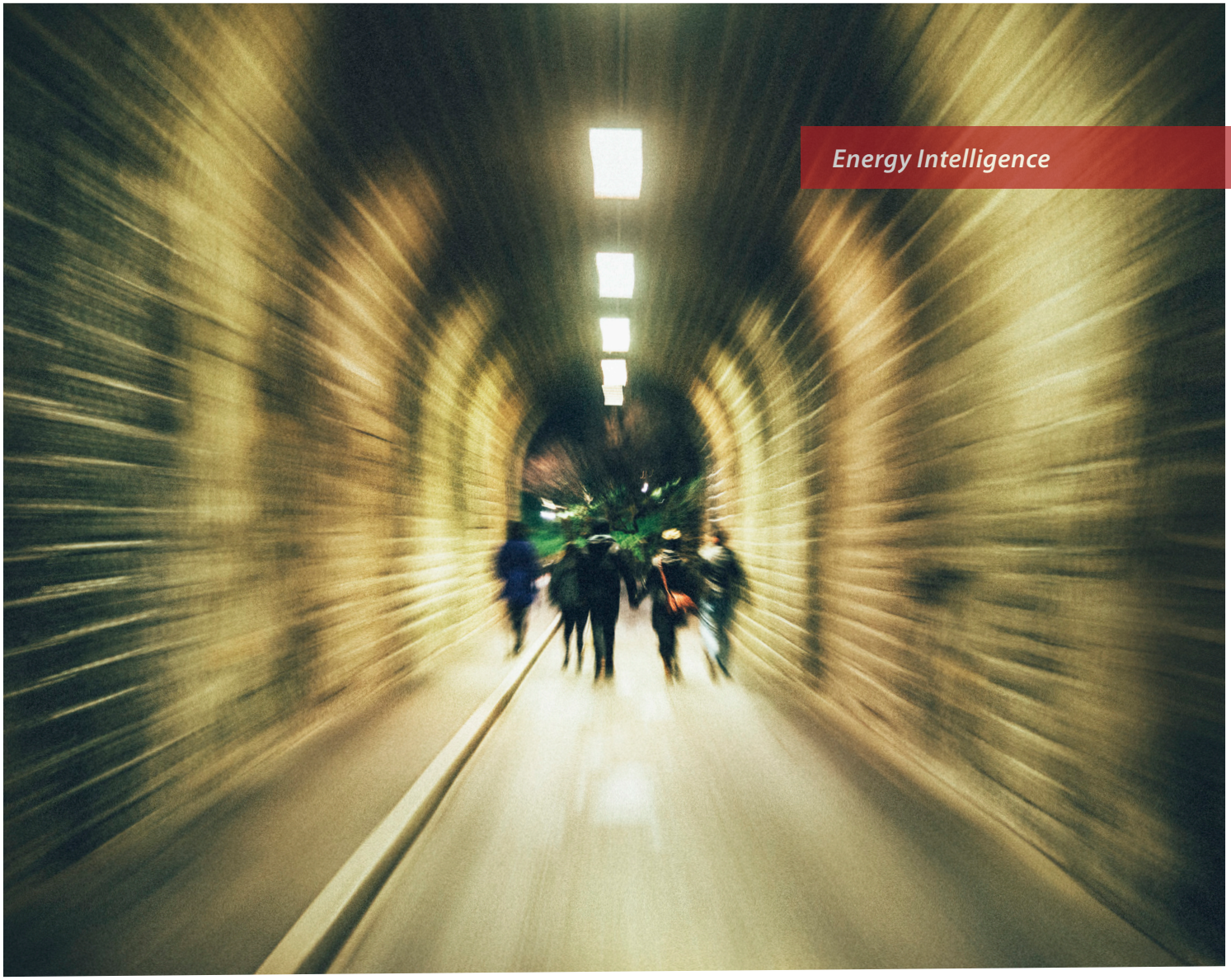

GridLight™ for Tunnels

Remote management for bridges and underpasses

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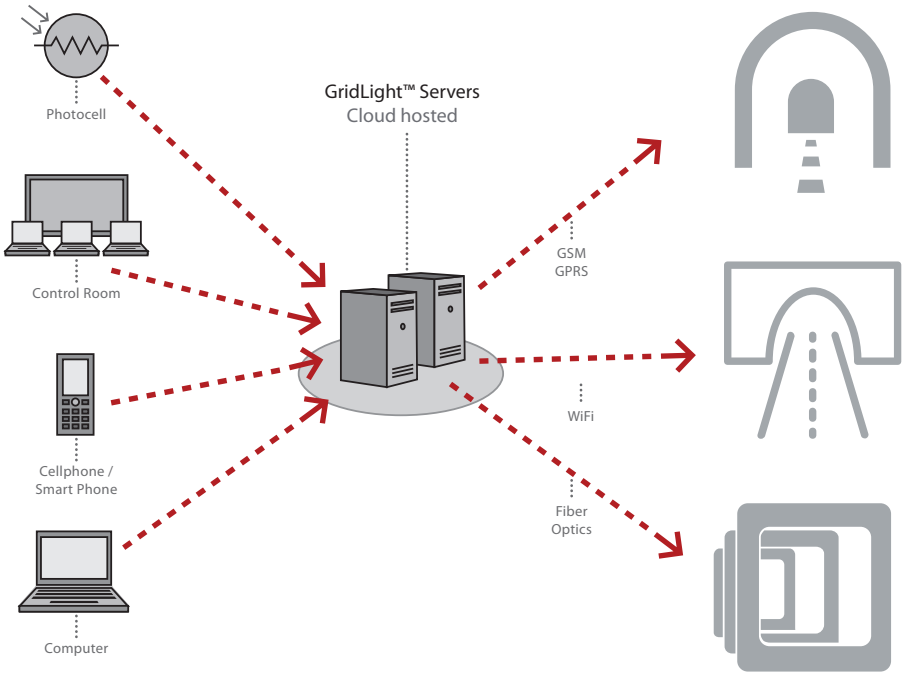
GridLight™ - Intelligent Tunnel Solution



Intelligent Tunnel Light Management

The construction of tunnels is a popular way to handle increasing traffic density. Tunnels help to improve traffic flow and also serve as a mean to protect the citizens from noise and pollution from vehicles.

The level of optimal illumination in tunnels is constantly changing in the cause of a day and night. Parameters like traffic density and weather needs to be monitored and reacted upon in order to secure the required through-flow of traffic and security.

Municipalities are aware of the complex demand for lighting in tunnels and invest in solutions to manage this ongoing proces. Very often these solutions for managing lighting in tunnels are stand-alone with no interaction to the general street lighting system.

The solution for this lacking integration is Amplex GridLight™. Amplex GridLight™ is the intelligent, automated management system that integrates highly flexible lighting scenarios.

The advantages of the platform include:

- Advanced and flexible controlling of different zones of a tunnel like Access zone, Interior and and Exit zone.
- Remote control of light using text messages, web or our smart phone app
- Easy integration of photo cell and motion detectors input
- Advanced programming including automatic sunrise/sunset calculations, weekend and holi day programming and multiple dimming level programs
- Remote control of light using web or our smart phone app
- Power quality monitoring – identify and prevent problems and failures
- Intelligence for better management – full burn hour reports and fault monitoring: Power failures, bulb errors, voltage variations, etc.
- Energy management built in - benchmarking features of the complete installation including alarms for overconsumption
- Fast deployment - retrofits in most installations
- Proven – in numerous deployments, powering several million street and tunnel lights worldwide, every night
- GridLight™ is a complete turn-key solution that is field-proven and backed by our precise, proven deployment methodology.

Amplex References

Amplex has been controlling street and tunnel lights since 2001 and have references all over the world in all kind of environmental conditions.

GridLight™ is by far the most used streetlight management system controlling millions of fixtures in 19 countries. City and even country wide installations have been applied controlling up to 275.000 fixtures in a single project. Implemented in Abu Dhabi, Copenhagen, Madrid, Johannesburg, Göteborg, Beijing, National Road Authorities in Denmark, etc.

GridLight™ Performance View gives you Key Performance Indicators (KPI) that easily provide the basic knowledge needed to manage a large number of lights.

Flexible design for all projects

- from short underpasses to long tunnels
- mixing group and individual pole management
- multi protocol technology combining cabled and wireless communication
- New constructions, upgrades and retrofit
- Easy installation and user friendly interface
- Proven technology for all weather conditions
- High performance, durability and cost efficient
- Reducing cost on power and maintenance
- Modular scalable system corresponding to increasing load

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