CRISTAL

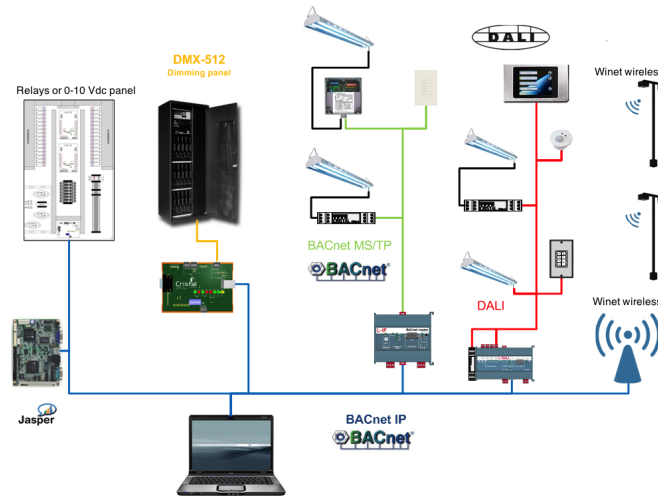# DALI
Digital Addressable Lighting Interface

Cristal Controls offers completely integrated lighting control solutions with its proprietary Jasper multi-purpose energy management software and the latest in DALI dimming control and individual fixture addressability technology.

Digitally addressable lighting has been gradually emerging as an effective means of controlling lighting environments, be they commercial, industrial or residential.

Individual control of light sources allows users to adjust the amount of light delivered to each device at their discretion, depending on changing lighting conditions and needs throughout the day. Correct light management translates into significant reductions in global energy consumption and costs, especially in commercial spaces where even a marginal decrease in lighting intensity can yield considerable savings and a rapid ROI over the long run.

A complete lighting control system includes addressable dimming ballasts, sensors and switches and a digital control unit for converting information from an Ethernet connection to the communication protocol required by the micro-controller in each ballast.

Applications for the Jasper-DALI combination include building management and studio lighting systems, where single or specific groups of lamps can be controlled, conserving energy while creating the desired lighting effects.

DALI
Digital Addressable Lighting Interface

Sector-Specific Benefits:

Lighting Designers
- ▶ Can express their full creativity without the constraints imposed by existing electrical systems
- ▶ Requires minimal functional specifications
- ▶ Designed with the user in mind, not the system

Electrical Engineers
- ▶ Go about their work without the constraints imposed by pre-defined zoning or lighting design
- ▶ Allows for the design of scalable systems
- ▶ Addresses engineering needs through software, not hardware
- ▶ ASHRAE and LEED compatible

Building Managers
- ▶ Have more flexibility in their use of space
- ▶ Can easily regulate their facility's energy consumption, thus lowering maintenance costs
- ▶ Reduces energy costs by 30 to 60% through daylight harvesting

Building occupants
- ▶ Can customize their lighting based on their individual taste and needs
- ▶ Enjoy more confortable lighting
- ▶ Can control lighting from a work station or mobile device
- ▶ Can make changes to lighting set-up with ease