

# NETx Shutter Control

Automatic shading system based on the season, weather, position of the sun and 3D building geometry

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# Functions

## 3D Design

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- 3D model of the building and the surrounding objects based on construction plans
- Simulation of the shadow of the building and the surrounding objects based on the 3D model
- Simulation for each minute of the whole year

## Automatic control

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- Automatic control of the blinds based on simulation results and other run-time parameters
- Adaption of the control logic to the specific project requirements possible
- Besides current weather situation consideration of other parameters (manual override) possible
- Special operating and safety modes can be considered

## Considering the weather situation

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- Integration of current weather data from one or more weather stations
- Type of weather station arbitrary
- Diffuse Light calculation
- Combination with sophisticated stations (global solar radiation) possible

## Shading groups

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- Control of the blinds individually or per group
- Dynamic change of the shading groups possible

## Slat adjustment

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- Automatic control of the position of the blinds or the position of the slats
- Adaption of the slat adjustment according to the elevation and azimuth angle of the sun

## Manual control

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- Manual control in addition to automatic control possible
- Adaption to project specific requirements

## Dynamic calculation of the brightness values

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- Definition of brightness thresholds and hysteresis for each automation group for including current weather data
- Avoiding glaring due to a low position of the sun by dynamic adjustment of the threshold according to the elevation angle of the sun

## **Management interface**

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- Web based management interface for monitoring the status of the system
- Status of the shading groups or individual blinds
- Monitoring of weather stations
- Manual override of shading groups possible
- Changing of configuration parameters

# System requirements

## Hardware

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- PC - Intel or AMD - 1.8 GHz (multi-core recommended)
- RAM: 2048 MB
- Hard disk: 32 GB (64 GB recommended)
- Ethernet interface: 100 MBit/s
- Resolution: 1280 x 1024

## Supported operating systems

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- Windows 7 (32 bit | 64 bit)
- Windows 8 (64 bit) | Windows 8.1 (64 bit)
- Windows 10
- Windows Server 2008 R2 (32 bit | 64 bit)
- Windows Server 2012 | 2012 R2 (64 bit)

## Order information

Software	Product-ID
Customized	S17.02.2.01.099

NETx Shutter Control is always an individual solution. Please contact us for further information.

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