

Monitoring Wind Turbine Blades



The motion of rotating wind turbine blades must be monitored for integrity. Operators also want to know when birds hit the blades to check for damage and to slow down the blades to prevent collision.

Solution:

High resolution cameras (high megapixel count) with sharp images (global shutter, short exposure time) and strobe NIR illuminators (for day/night operation) are utilized to monitor the turbine blades.

The cameras are able to view the blades as they pass through each camera's FOV. They can also capture video of approaching objects like birds and adjust the speed of the turbine blades accordingly.

