

Aerones Blade Crawler Gen 3

With groundbreaking **advancements in lighting technology, high-performance cameras, and extended battery life**, the new generation of the Aerones Blade Crawler is designed to deliver unmatched inspection quality and efficiency. Its compact and robust form factor makes it perfect for internal inspections on both **operational turbines and during the pre-commissioning stage**. The Aerones GEN 3 Crawler sets a new standard in turbine blade inspection, offering unparalleled precision and reliability.

The crawler is equipped with **adaptive LED matrix lights, powerful 3D LiDAR scanner**, a 360-degree front-facing camera, and a dedicated camera module for root zone inspections

61 MP camera for automated root zone inspection and defect detection

Measures the **exact distance traveled from the blade root** to identify defect location

Improved, **modular** and robust design

Updated chassis and motor control, allowing to maintain **constant speed and autonomy**

360 degree camera with 8K video resolution to cover 100% of blade surfaces inspected



Scan to watch the camera in action

Improved lighting modules for bright and even illumination, **ensuring visibility of even the smallest defects**

Blade Crawler Gen 3

technical parameters

Service

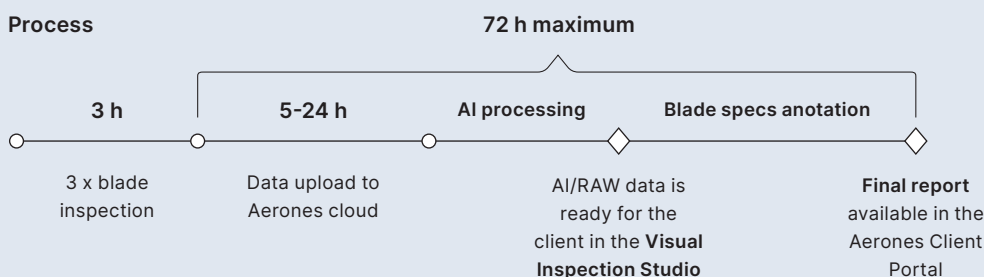
Combined external & internal inspections	In 3 hours
Combined reports	Max 3 days
Environment	Onshore / Offshore
Reach	90% blade depth *

Equipment

Model	Internal Inspection Crawler Gen 3
Weight	13 kg (28.66 lb)
Dimensions (HxWxL)	H: 175 mm W: 240 mm L: 870 mm (H: 6.89 in W: 9.45 in L: 34.25 in)
Ground clearance	30 mm (1.18 in)
Temperature	From -10°C to 35°C (14°F to 95°F)
Relative humidity	Up to 85%
Inspection speed	20 cm/sec (7.874 in/sec)
Maximum speed	1 m/sec (39.37 in/sec)

* May vary depending on the turbine model.

Process



Aeronex has launched **Visual Inspection Studio (VIS)** — a one-stop platform for accessing detailed blade inspection data from crawler robots and autonomous drones. **Scan the QR code to learn more!**

The Aeronex Blade Crawler is part of the **Aeronex Smart Robotic Inspection bundle**, which includes **autonomous drone visual inspections**, advanced **Lightning Protection System inspections**, and **full blade internal inspections**. This comprehensive solution provides the most advanced blade health analysis on the market.



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Ready to enhance your wind turbine performance?

Contact us today or scan the QR code for more information about Aeronex Blade Crawler.

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