

# QC INSIGHTS THROUGHOUT PRODUCTION

## Flexible & Modular

Turnkey platform includes conveyance and pick-and-place handling

Measurement module integrates with 3rd party systems

Reduce manufacturing costs with non-destructive inspection

## Performance & Reliability

Two-dimensional insights in 3 seconds per cell

Continuous monitoring ensures maximum safety and reliability

Uncover previously undetected anomalies earlier in the process

## Broad Cell Compatibility

Chemistry agnostic, including solid-state cells

Pouch and prismatic cells of any dimension

Cylindrical cells scheduled for 2023

## Seamless Integration

Fully-automated and semi-automated solutions

Real-time data tracking and alerts

Trend analysis software delivers on-demand insights

# ECHOSTAT<sup>®</sup> ADVANTAGE



Electrolyte,  
Saturation,  
Quality

50% shorter process  
time, detect outliers  
95% earlier  
(~\$1.90/kWh)



Cell  
Performance  
Prediction

85%+ accuracy  
predicting end-of-  
life cycle number  
(~\$1.14/kWh)



End-of-Line  
Quality  
Assurance

95%+ faster than  
standard QA tests  
with the same result  
(~\$1.04/kWh)

Liminal's solutions tighten the feedback loop between error and detection in battery manufacturing.

We have room for a limited number of production-scale validation partners in 2023.

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# liminal

The future of battery  
insights starts here