

Drive Picking Efficiency. Accelerate ROI.

Explore Light-Directed Systems
and AMR Solutions for
High-Throughput Fulfillment



Redefining Fulfillment Operations

Warehouses today are under pressure to deliver more, faster, and with fewer resources. Traditional processes rely heavily on manual movement, fragmented systems, and labor-intensive workflows.

VCO changes this by enabling connected automation, bringing together light-directed systems and autonomous mobility to create a more efficient, scalable operation.

What This Means for Your Operations

Adapt quickly to
changing order
volumes and demand

Improve accuracy
and consistency
across workflows

Increase picks per
hour without
increasing labor

Reduce non value
added travel across
the warehouse

Our Automation Capabilities



Light-Directed Picking and Fulfillment Systems

Pick-to-Light, Put-to-Light,
Putwall, and Pick/Put Carts



Autonomous Mobile Robots (AMR) Solutions

Flexible, scalable movement
across zones and workflows



Warehouse Integration and Workflow Orchestration

Real-time coordination across
your warehouse operations

Light-Directed Solutions

Drive speed and accuracy across picking, sorting, and fulfillment workflows



Speed, Accuracy, and Control Across Every Workflow

VCO's light-directed solutions guide operators with clear visual cues, enabling faster picking, reduced errors, and more efficient fulfillment processes across a wide range of workflows. Designed for flexibility and scalability, these systems integrate seamlessly into existing operations and adapt to changing demand.



Pick-to-Light

Guide operators to the correct location for fast, accurate picking



Put-to-Light

Enable efficient sorting and consolidation of orders



Putwall Systems

Sort batch-picked inventory directly into orders



Pick/Put Carts

Mobile, modular systems supporting batch, cluster, and zone picking

Key Advantages

Higher Accuracy

Visual confirmation improves consistency and reduces errors

Increased Efficiency

Combine multiple order types into a single efficient pass

Reduced Touchpoints

Streamline sorting and packing workflows for maximum efficiency

Operational Flexibility

Adapt to changing order volumes and fulfillment strategies

Built for High-Throughput Fulfillment

Designed for Real Operations

- Multi-user, multi-color systems enable parallel workflows
- Easily reconfigurable to support evolving operational needs
- Seamless integration into existing warehouse workflows



Proven Impact

- Faster pick cycles and improved throughput
- Reduced training time and faster onboarding
- Deployment in as little as 4–6 weeks

LUMiROVER

Light-directed precision with autonomous movement to enable continuous order flow



Where Light-Directed Systems Meet Autonomous Mobility

LumiRover is an AMR-enabled Pick-to-Light cart designed to transform zone picking operations. It combines light-guided accuracy with autonomous movement, allowing operators to stay in their zones while work flows seamlessly across the warehouse.



Pickers stay focused



Carts move autonomously



Orders keep progressing

Why LumiRover?

Faster Throughput

- Reduce travel time by up to 60%
- Increase picks per hour

Labor Optimization

- Pickers stay in-zone
- Less fatigue, higher productivity

Higher Capacity

- More order locations per cart
- Better batch & cluster picking

Flexible & Scalable

- Works with multiple AMRs
- Enables hybrid operations with or without AMRs
- Load balancing across zones to maintain consistent throughput

Light-Guided Accuracy

- Clear visual prompts
- Faster confirmation, fewer errors

Out-of-the-Box Integration

Seamless Integration

- Ready for Manhattan Active WMS or custom integration with any WMS in ~2 weeks
- Real-time synchronization
- Fast deployment
- Scalable architecture

Inaugural AMR Partners



Integrated with



For High-Volume Operations

Retail fulfillment | E-commerce distribution
| Third-party logistics



Why VCO Systems

Connected Automation Built for Real Warehouse Operations

VCO delivers connected warehouse execution by bringing together light-directed systems, autonomous robotics, and workflow orchestration into one unified platform.



Built for Real Warehouses. Designed for Real Results.



Integrate multiple technologies into a single workflow



Enable scalable automation across zones and facilities



Deliver measurable improvements in throughput and efficiency

Fast Deployment with Seamless Integration.

Light-Directed Solutions

Deploy in as little as 4–6 weeks

LumiRover Pilot

Validate performance in 4–8 weeks

Start Small. Scale Fast. Transform Your Warehouse

See how light-directed systems and autonomous mobility work together in your operation.

Speak to our experts today

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