PICK–TO–LIGHT
Light–directed picking technology

Pick-to-Light is a system where operators are prompted by light illumination to pick the appropriate parts for a logistics or assembly process.

It aids rapid and precise selection of parts in dynamic pick situations and is commonly used within warehouses and is increasingly being used on production assembly lines for the purpose of "kitting".

FEATURES

Easy to mount and reconfigure

Ergonomic and robust light modules

Integration with logistics and assembly processes

Scalable and flexible

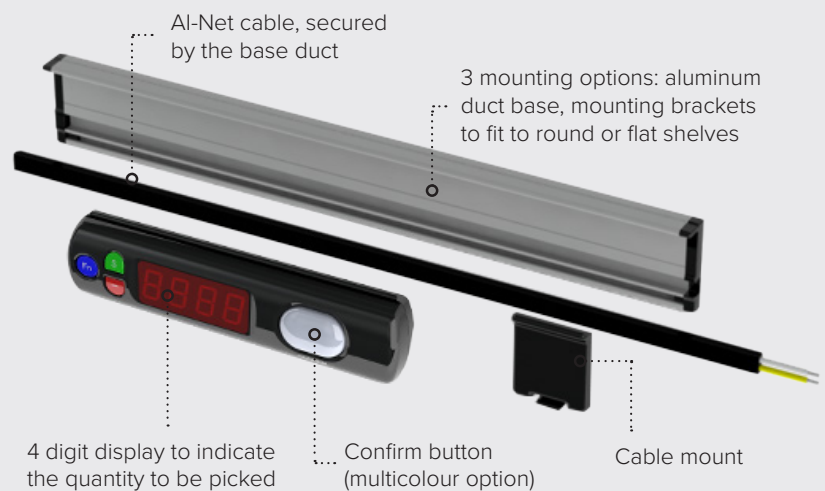AI-Net cable, secured by the base duct

3 mounting options: aluminum duct base, mounting brackets to fit to round or flat shelves

4 digit display to indicate the quantity to be picked

Confirm button (multicolour option)

Cable mount

BENEFITS

Increased productivity
Reduced learning curve

Improved picking quality
Error reduction

Easy mounting
Flexibility and speed

Pick-to-Light i**mproves performance** by reducing the time spent walking between items required and removing the errors associated with reading paper-based pick lists.

The system can be easily configured to improve the efficiency of various logistics and assembly processes, including zone and batch picking, order sorting and kitting.

APPLICATIONS

Directed order picking

Order sorting

Kitting stations

Sub-assembly stations

Production lines

ARCHITECTURE

The pick-to-light system uses a Sextans PC to communicate with the pick-to-light controller using a TCP protocol via an Ethernet connection.

Two versions of the pick to light controller are available:
- A basic unit is capable of controlling up to 50 modules
- Larger controllers are also available that can control up to 250 modules over 5 runs of Al-Net; via RS485 connected junction boxes a total of 7999 modules can be controlled from a single Ethernet connection

Al-Net provides both power and communications to the modules in runs of twin core flat form cable held within a unique aluminium extrusion that also locates the pick to light modules.

Each light module is assigned a unique address via the issue of an address assignment command whilst the confirm button on the target module is being held. This quick and simple mechanism allows for **rapid reconfiguration** and/or module swap-out should there be the need.

The confirmation button on the modules is available in a seven colour option. This opens up a variety of additional process quality improvements by using different light colour assignments.

PROCESS

Sorion's **Sextans software controls the process cycle** which usually commences by scanning a Key ID barcode.

The correct picking sequence is then delivered via the light modules.

A barcode scanner can also be used to confirm / record the validity of the picked parts via part number / serial number scan.
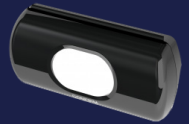
Once all parts have been picked and the process is complete (or if the process has been aborted) the **outcome of each process is logged via Sextans** which generates results against a Key ID within Sorion's Orion™ database which can be viewed via a web browser.

MODULES

Non-Digit

This is the simplest module available with a multicoloured confirmation button.

Non-Digit with Sensor

As above but also including sensor (within 15cm) for automatic acknowledgment

Digit

Buzzer
4 digit display

The 4 digit display is used to imply pick quantity with pick confirmation being given via the pressing of a large illuminated button.

Digit with Sensor

Buzzer
Sensor
4 digit display

The pick is determined via either movement beneath the module (within 15cm) or by button press.

Non-Digit with Limit Switch

Buzzer
Limit switch

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