

Done right

AT THE SPEED OF LIGHT



More than 30 years of experience in Light Directed solutions using advanced Put- and Pick by light technologies.

With over 30 years of experience, Pcdata is one of the largest and most innovative suppliers of light directed orderpicking solutions worldwide. We develop and manufacture flexible and easy to implement light directed order fulfillment solutions. Technologies that have been tested and proven to effectively reduce cost and improve quality of your order fulfillment processes.

Our continued commitment to innovative product design and development has led to our sixth-generation light directed order fulfillment solutions. Solid systems used by reputable brands in more than 35 countries in many industries such as retail, foodservice and e-commerce.

In addition to proprietary software and hardware, Pcdata also offers complete solutions that ensure successful design and implementation of the required logistics automation. If preferred, you can also choose to combine our Pick to Light hardware with your own software.

Additionally, due to our specialist expertise and efficient total solutions, we are the perfect partner for logistic service providers. In short: we are happy to assure that you have the right product at the right time at the right place!



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SUPPLIER OF COMPLETE SOLUTIONS

Pcdata provides integrated solutions for your entire warehouse. Not only do we take care of your warehouse orderpicking, but we can also design a complete warehouse solution including racking, shelves, conveyors and other automated systems.

Pcdata is the supplier if you are looking for a single point of contact and only one partner that takes full responsibility for your project.

Pcdata: your reliable partner

- > More than 1,000 installations worldwide
- > Automated solutions for retail, food service, assembly (manufacturing) and e-commerce
- > Light directed order fulfillment
- > Proprietary Pick- and Put to Light soft- and hardware
- > Integrated turn-key solutions
- > 24/7 worldwide service and support



WHAT IS PICK BY LIGHT?

Maximum productivity, higher efficiency

Pcdata acknowledges that warehouse operations nowadays can be extremely complex. We aim to shoulder the burden of the automation challenge by designing an order fulfillment solution that maximizes your warehouse efficiency. Pcdata develops and manufactures various flexible technologies that, considering your product line and fulfillment requirements, deliver the best results. Our Pick by Light solutions are proven effective in various industries such as Food, Cosmetics, Clothing and Electronics.

Pick by Light is an entirely paperless order fulfillment method whereby the order process is guided by displays. Every product location is equipped with a display including a highly visible LED button and smaller programmable push buttons for various functions. The displays are directly linked to the software system using PCD-controllers. The software sends data for each order to individual product locations that require items to be picked. The displays at these locations are lit up and the total number of products needed to be picked is shown. At a glance operators see what products and how many products they need to pick. After picking the right amount of items, the operator pushes the lit up button to confirm the action and the display light turns off. Various locations are picked one by one and various orders can be fulfilled either one by one or simultaneously

Pick by Light solutions generate higher productivity rates and fewer mistakes resulting in significant lower cost. As the system is easy to operate, employees do not require extensive training and are therefore up and running in no time. New hires can be part of your productive workforce rapidly.



Pick to light installed at one of our customers



In addition, the hardware is simple, flexible and can be mounted onto all types of racking and shelving. This results in lower installation cost and, if required by changes in product range or order profile, allows for moving of displays easily.

Our solutions

Pcdata's innovative Pick by Light technologies offer each customer a customized solution.

PICK TO LIGHT

- Pick & Pass
- Zone picking
- Parallel picking

MOBILE SOLUTIONS

- PickCart

PUT TO LIGHT

- Pick to Zero
- Putwall
- Sort to Light

Pcdata offers all these solutions and hybrid versions, balanced to your needs and processes.



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PICK BY LIGHT SOLUTIONS

PICK TO LIGHT

Pick and pass: An order travels from one zone into the next; lit up displays signal the operator what product and quantity needs to be picked. An order generally travels to all zones, also when there is no product to pick.

Zone picking: For warehouses with a large volume of SKU's; the order only travels to those zones where products need to be picked. Lit up displays signal the operator what product and quantity needs to be picked. Transport is mostly mechanically but can also be done manually.

Parallel picking: For warehouses with a relatively small product line; products are picked in multiple identical zones simultaneously, handling is done using displays.



MOBILE SOLUTION

PickCart Pickcart is Pcd data's flexible solution for multi-order picking. In warehouses with small orders and often a large number of SKU's, PickCart can account for a drastic decrease in order fulfillment time and an increase in produc-

tivity. This solution is developed to pick multiple orders in one round, whereby products are separated to the individual orders immediately.



PUT TO LIGHT

Pick to Zero Pick to zero is an order fulfillment method whereby the product is being dispatched to customer or order locations. Lit up displays indicate customer locations and the products will be distributed in the shown quantities. Put to Light has the same advantages as our Pick to Light solutions.

Putwall Products from different storage areas can easily be merged using a putwall. This solution is particularly suited for e-commerce operations that process orders with more than one order line.

Sort to light is exceptionally suitable to efficiently sort products to product locations. This technique is mostly being applied to inbound and consolidation processes. Displays guide the operator the correct location and show the product quantity that needs to be distributed.

MODULAR SOFTWARE

Pcdata is committed to continuously develop innovative Pick and Put to Light techniques.

We offer out of the box, flexible, easy to implement and affordable order fulfillment solutions for order picking and system integration. Our 6th generation soft- and hardware are developed and manufactured in house. Both the inhouse development and manufacturing and the high-quality standard makes Pcdata a reliable logistics automation partner globally

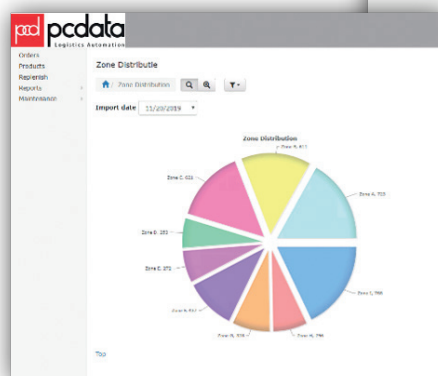
Our software consists of numerous standardized modules. These modules can be used to configure your specific process solution, completely tailored to your environment, product line and order characteristics and are completely adjustable to your needs.

After implementation our technologies and solutions can easily, flexibly and quickly be adjusted or expanded.

Technical specifications

- > Modular structure where basic building blocks will be combined with specific customer needs
- > Flexible interfacing with all WMS and ERP systems
- > Carefree integration of lanes, sorters, scales, printers etc.
- > Webbased user interface
- > Simplified export of all available data
- > Little to none maintenance
- > Low IT infrastructure requirements

Region	Planned	Completed	% Completion
USA West	1074	1113	103.7%
Europe	14	14	100.0%
Latin Amer.	66	64	97.0%
Asia Pacific	220	462	210.0%
Central Amer.	769	764	99.3%
Canada	21	21	100.0%
USA South	237	287	121.1%
Europe West	25	25	100.0%
India	67	68	101.5%
Mexico/Caribbean	248	174	70.1%
China	2	2	100.0%
Latin Amer. East	57	66	115.8%
USA Midwest	4103	3488	85.0%
South America	24	24	100.0%
South Africa	69	68	98.6%
United Arab Emirates	62	62	100.0%
Indonesia	267	17	6.4%





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Pick to Light hardware (OEM)

Pcd data's unique hardware is not only used for our own Pick and Put to Light solutions. Our hardware can easily be integrated with your existing systems and connected to your own software.

Based on years of experience and expertise we have developed hardware that can be mounted simply, quickly and flexibly to any racking, shelving and mobile carts.

The displays are easy to move around using the 'click and go' principle, without having to modify any cables.

Our hardware is capable to communicate with almost every system with a network connection.

Hardware components

Pcd data's display systems have proven to be extremely efficient in providing paperless pick or sort instructions. The most important OEM hardware:

DIS6 is a compact and bright multi-colored display that not only provides all necessary information but also has the capability to make adjustments or provide feedback.

B6 is a small and highly visible multi-colored location display that provides all necessary information to fulfil orders.

DISM2K is a flexible and adjustable high-resolution multi-colored LED display that is able to represent both graphic and alphanumeric symbols.

Ask for our product sheets for more information.

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