

- ✓ Reduced cycle times
- ✓ Increased productivity
- ✓ Reduced equipment costs

# Code Readers Guarantee Three Ways to **Add Value**

For Use in the **Food, Pharmaceutical and  
Cosmetics Industries**



SR-2000 Series  
1D/2D Code Reader



# Three ways to add value

Food, Pharmaceutical and  
Cosmetics Industries No. 1

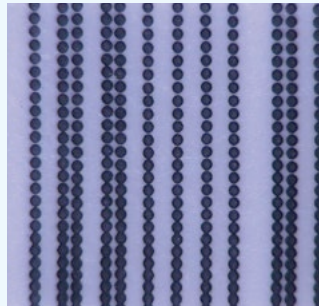
## Checklist

### Experiencing issues with reading performance?

- Codes are faint or light, and therefore difficult to read.
- Smudged inkjet printer printouts.
- Codes covered by film or laminated materials are reflective and therefore difficult to read.



Barcode on cardboard



Barcode printed with inkjet  
printer



Distortion on laminated materials



**Incredible reading  
performance**  
resolves issues

- Prevents line stoppages
- Eliminate product loss
- Improve takt time

With their **incredible reading performance**, SR-2000 Series code readers

**ensure reduced cycle times,**

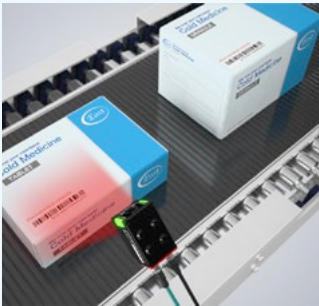
**increased productivity and reduced equipment costs**



Checklist

## Experiencing issues with the reading area?

- Changeover is needed for **each product**  
(to meet the demands of various package designs and sizes).
- Products constantly need to be reoriented** to be read.
- Placement of code labels** are inconsistent.



Various package designs



Barcode orientation is  
inconsistent



Barcodes affixed within a  
wide range



### Ultra-wide field of view

resolves issues

- Reduces setup time
- Streamlines production line
- Simplifies work processes  
(increased labour efficiency)

With their **ultra-wide field of view**, SR-2000 Series code readers

**ensure reduced cycle times,**

**increased productivity and reduced equipment costs**



# Three ways to add value

Food, Pharmaceutical and  
Cosmetics Industries No. 3

## Checklist

### Experiencing issues with reading very small codes?

- Setup and adjustment needed to read moving barcodes increases work hours.
- There is not enough space along conveyor belts.
- Barcodes are partly hidden by the conveyor guide rails.



Reading barcodes off individual moving packages on a cartoning machine



Reading barcodes from an angle



Reading barcodes that have been positioned too low



**Stable reading of  
very small codes**  
resolves these issues

- Reduces maintenance time
- Reduces cost of installation
- Shortens changeover time

With their **stable reading performance for microscopic codes**, SR-2000 Series code readers **ensure reduced cycle times, increased productivity and reduced equipment costs**



Checklist

## Experiencing issues with barcode label inspections?

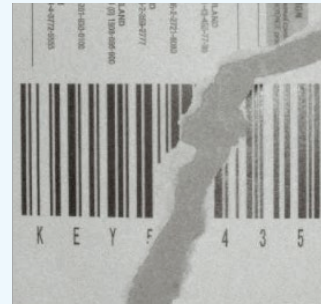
- A separate inspection camera is used to check label positioning.
- Cross-checking of product and package codes is required.
- An image database of reading errors is required.



Barcode inspected for  
irregular positioning



Barcode and 2D code  
cross-check



Saved image of a reading  
error



### Convenient extended functions

resolve these issues

- Reduces cost of installation
- Simplifies control systems
- Reduces maintenance hours

With their **various extended functions**, SR-2000 Series code readers

**ensure reduced cycle times,**

**increased productivity and reduced equipment costs**



# Three ways to add value

Food, Pharmaceutical and  
Cosmetics Industries No. 5

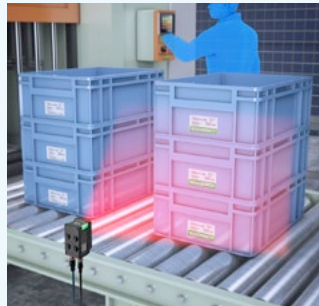
## Checklist

### Experiencing issues with reading responsiveness?

- You **want to partially automate** handheld code reading.
- Separating 3-layered boxes to ensure each one is read is **not efficient**.
- Visual checks and colour sensors are **insufficient for properly identifying product types**.



Reading during order picking



Batch reading for incoming  
and outgoing



Accurate barcode  
determination



### Quick reading response

resolves issues

Work time reduction and  
increased efficiency

Save time with batch reading

Allows for proper identification  
of products

With their **quick reading response**, SR-2000 Series code readers

**ensure reduced cycle times,**

**increased productivity and reduced equipment costs**



✓ **SR-2000 Series code readers**

**ensure reduced cycle times, increased productivity and reduced equipment costs**



**Cost reduction case study**

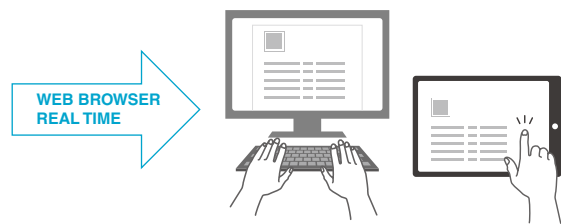
**In this example, consider large-area batch code reading**

This case study in cost reduction compares a code reader moving via a conventional cylinder against large-area batch readings by the SR-2000 Series.

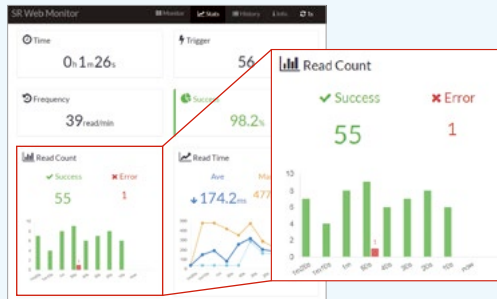
Initial expenses (Hardware/ program expenses)	Conventional Unit	Moving part design/ assembly expenses	Moving part control program expenses	Startup/ adjustment expenses
	SR-2000	<p><b>COSTS DOWN</b> No expenses as moving parts are not required</p>		
Maintenance expenses	Conventional Unit	Control program modification expenses (Product type additions, etc.)		
	SR-2000	<p><b>COSTS DOWN</b> No modifications needed as movable parts are not required</p>		
Equipment expenses	Conventional Unit	Causes a cycle time bottleneck when increasing production capacity, making additional equipment necessary		
	SR-2000	<p><b>COSTS DOWN</b> Minimise reading cycle time, so additional equipment is not required</p>		

# SR Web Monitor Increases the Added Value from Code Readers

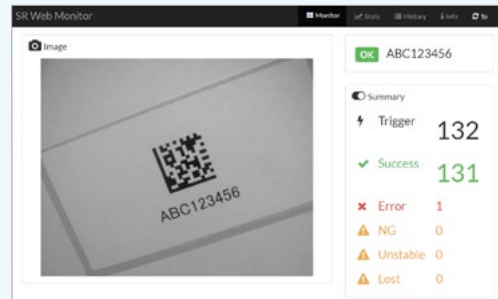
- ✓ The code reader calculates statistical data internally.
- ✓ Instantly usable from a web browser. No need for development of dedicated programs.
- ✓ Connect even while operating. Enables monitoring in real time.



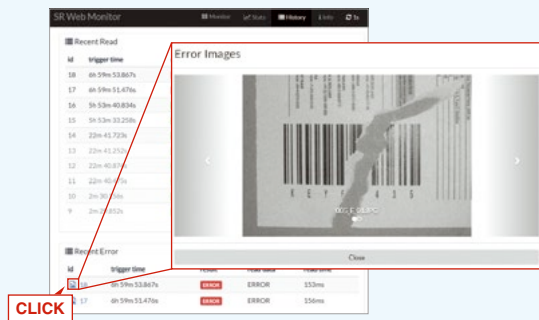
## SR Web Monitor significantly reduces the hidden costs of code reader settings and adjustments



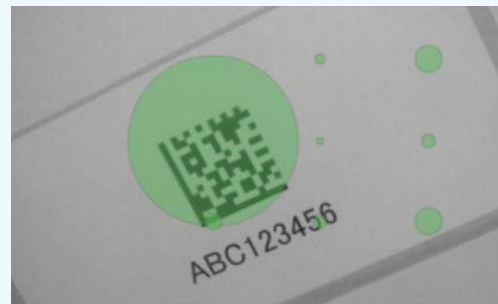
Check successful code readings by time slot during the long test operation on launch



View reading statuses with equipment running during scheduled operational checks



Check the history of error images when investigating the cause of reading errors



View code reading positions with mapping data during maintenance and adjustments



Please visit: [www.keyence.com](http://www.keyence.com)



### SAFETY INFORMATION

Please read the instruction manual carefully in order to safely operate any KEYENCE product.

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