

- ✓ 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

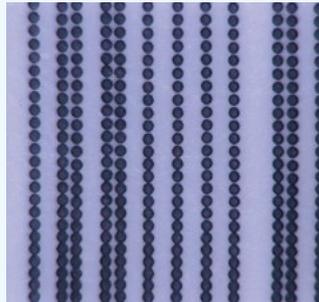
Checklist

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



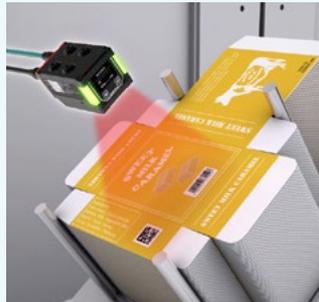
Checklist

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

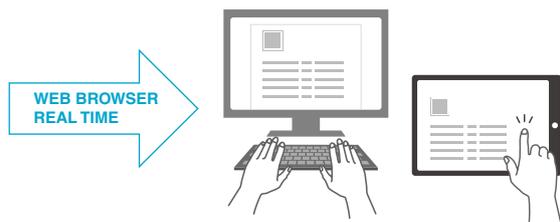
In this example, consider large-area batch code reading

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.

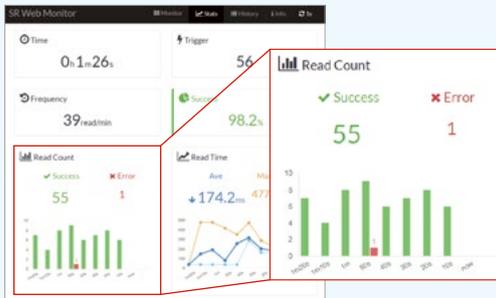
Initial expenses (Hardware/ program expenses)	Conventional Unit	Moving part design/ assembly expenses	Moving part control program expenses	Startup/ adjustment expenses
	SR-2000	<p>COSTS DOWN No expenses as moving parts are not required</p>		
Maintenance expenses	Conventional Unit	Control program modification expenses (Product type additions, etc.)		
	SR-2000	<p>COSTS DOWN 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>COSTS DOWN Minimise reading cycle time, so additional equipment is not required</p>		

SR Web Monitor Increases the Added Value from Code Readers

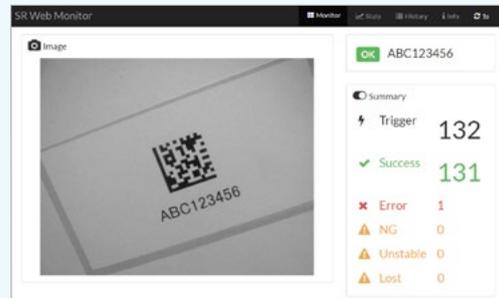
- ✓ The code reader calculates statistical data internally.
- ✓ Instantly usable from a web browser. No need for development of dedicated programs.
- ✓ Connect even while operating. Enables monitoring in real time.



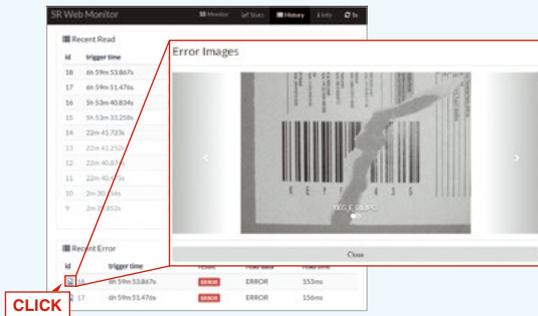
SR Web Monitor significantly reduces the hidden costs of code reader settings and adjustments



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



SAFETY INFORMATION

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

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