

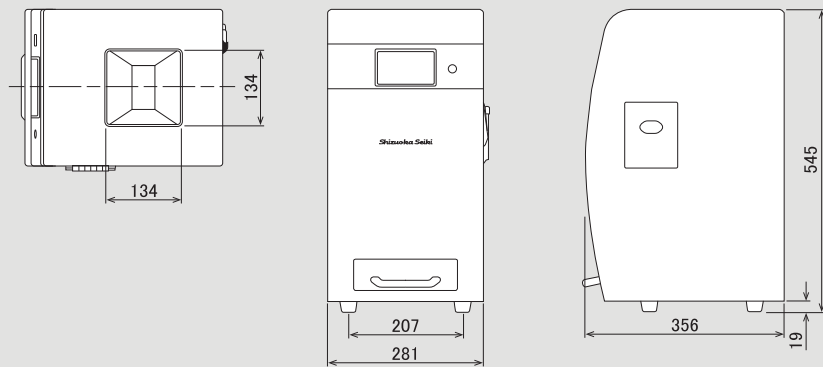
Options

Carrying case

■ For transporting the main unit



External dimensions



Main Specifications

Model Name	ES-5E	
Measurement Method	Light source	LED lamp
	Sensor	Dual-line color camera
	Scanning Method	Fixed optical system, sample drop reading method
Measurement Targets	Brown rice (non-glutinous), White rice (non-glutinous)	
	Options	brown sake rice, brown glutinous rice
	Large class	normal grain, cracked grain, other grains
	Medium class	normal grain, immature grain, cracked grain, broken grain, damaged grain, dead grain, discolored grain
	Small class	fresh-green grain, other normal grains, milky-white grain, green-immature grain, base-white grain, white-belly grain, slender grain, twisted grain, fused grains, light brown grain, other immature grains, sprouted grain, single-cracked grain, double-cracked grain, malformed grain, damaged brown grain, broken grain, pecky grain, greenish opaque-grain, white opaque-grain, whole-surface discolored grain, partially discolored grain, red rice, rice husk
	Inspection Class	discolored grain, dead grain, cracked grain, broken grain, white-immature grain, normal grain*1
Milled Rice JAS classification	discolored grain, damaged-discolored grain, powdery grain, broken grain, perfect grain, small broken grain*2	
Measurement Capacity	Maximum 1,300 grains per measurement	
Measurement Time	Approximately 5 seconds per measurement (processing time after initiation)	
Display	4.3-inch color touch display	
Print Output	Breakdown of classification ratios and grain counts, operation messages, error messages, etc.	
Storage Function	Measurement data can be saved (up to 10,000 measurement data).	
Operating Environment	Ambient temperature 0-40°C	
Storage Conditions	Relative humidity 85% or less (no condensation) -20°C to 50°C	
Power supply	AC100V-240V	
Weight	11kg	
External dimensions	W281xD356xH545mm	
Accessories	AC power cable, 2 rolls of printer paper, cleaning cloth, cleaning brush,	
Options	Sake rice evaluation software, glutinous brown rice evaluation software, discharge case, carrying case	

*1 Normal grains are provided as a reference value for agricultural production inspections standards.

*2 Perfect and small broken grain values are reference values.

Shizuoka Seiki Co.,Ltd.

Address: 1300 Moroi, Fukuroi City.
Shizuoka Prefecture 437-1121 JAPAN
Tel: + 81-538-23-3990, Fax: + 81-538-23-3192
e-mail : international@shizuokaseiki.jp
URL : <https://www.shizuoka-seiki.co.jp/english/>

Shizuoka Seiki

Rice Inspector ES-5E

Instant measurement



More about ES-5E



Shizuoka Seiki Co.,Ltd.

Outstanding Speed

1,000 grains analyzed in just 5 seconds



In brown rice (non-glutinous) sorting, measurement results can be displayed and printed in three categories : large, medium, and small.

Large class: normal grain, cracked grain, and others
Medium class : normal grain, immature grain, cracked grain, broken grain, damaged grain, dead grain, and discolored grain
Small class : fresh-green grain, other normal grains, milky-white grain, green immature grain, and etc. (classified into 24 categories)

In milled rice (non-glutinous) sorting, measurement results can be displayed and printed in two categories : large and medium

Large class: normal grain, cracked grain, and others
Medium class : normal grain, immature grain, cracked grain, broken grain, damaged grain, dead grain, and discolored grain

"Normal Grains" and "Small Broken Grains" are reference values.



High-speed measurement provides strong support for operators.

With performance equivalent to a skilled inspector, the system is ideal for preliminary screening and inspection assistance applications.

Stress-Free,
Speed and Simple Operation

High-speed performance and simple one-button operation provide reliable support for rice inspection.



Measurement Procedure

Sample loading



Pour the sample into the hopper.

Measurement



Press the measurement button.

Measurement results



Results are displayed on the LCD and printed.

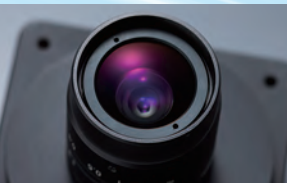
Sample removal



Remove sample after measurement is completed.

1 Measurement time: 5 seconds

Equipped with a color CCD line sensor and high-speed image processing engine to accurately capture and analyze flowing grains. Measurement time has been significantly reduced to 5 seconds, compared with 28 seconds in previous models.



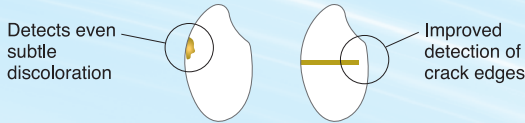
CCD sensor



Image processing LSI

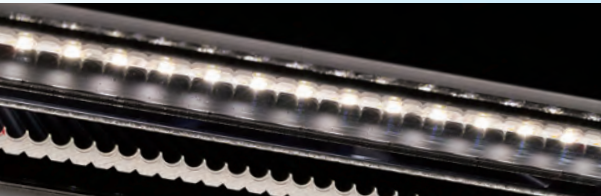
2 Advanced Discrimination Performance

Optimization of the detection algorithm allows for more detailed classification from the center to the edges of each grain.



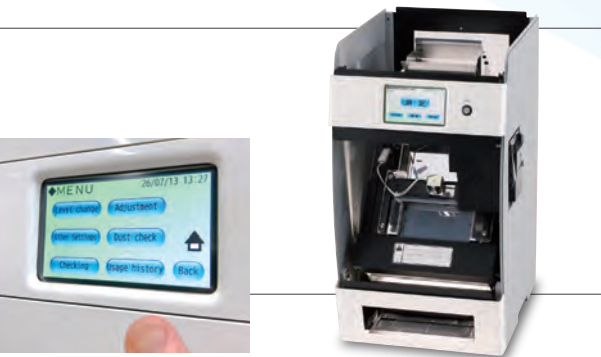
3 Long-Life, Dust-Proof Design for Consistent Performance

LED light source offering a service life of 40,000 hours.
Designed with few moving mechanical parts for long-term durability.
Dust-proof measuring section minimizes dust impact during high-volume sample measurement, ensuring stable operation.



4 Easy Maintenance Without Tools

Easily removable front, rear, and upper panels
Detachable chute for easy access
Measuring section designed for easy cleaning, making maintenance simple and convenient



5 LCD Touch Panel

LCD touch panel enabling intuitive and easy operation



6 Compatible with Glutinous Rice and Sake Rice (optional)

7 Stores up to 10,000 Datas

Other uses



Rice milling plants



Quality control room

On-site measuring at rice milling plant

Enables quick measurement of powdery grain ratio, broken grain ratio, and whiteness level on-site.

For product quality control

Significantly improved measurement accuracy and durability.
Enables fast sample processing and reduces time required for repeated measurements.