

1. Color Grader

The Satake Color Grader is a high-resolution visible-band spectrophotometer. It can provide the color value of flour in term of Color Grade Value (CGV) as well as Standard Color Value System expressed as Lab, L*a*b and XYZ values. Ash as a function of color can be displayed. Color Grader can also be used on other cereal products.

Model	NCG1A	
Detector	Dual 18-element silicon photodiode array with wedge-shape continuous interference filter	
Ligth source	Pulsed xenon arc lamp	
Measurement time	approx. 2.5 sec.(to start of data output)	
Illumination	Reflectance:Changeable;φ30mm measurement or φ11mm	
measuring area	illumination/φ8mm measurement Transmittance:Approx.φ22mm	
Type of Materials	Flour, Flourpaste,Pasta(spaghetti)	
Measurable by transmittance	Power	AC 100V/120V/230V,50/60Hz(using included AC adapter)
	Dimensions	W413×H190×D240mm
	Net Weight	10kg



2. Mini Color Grader

1. Compact size, light-weight and handheld
2. Simple to use:
Simply apply the lens to a product sample, push the button and read the color grade from the display.
3. Established color grade value system:
Color difference is displayed in term of well-accepted L*a*b color system that is specified by CIE International Committee and adapted by Japan Industrial Standard.

Model	MICG1A	
Light source	Gas-filled tungsten lamp	
Illuminating/viewing	8/d (8° Illumination angle/diffusive viewing)	
geometry	Measuring area	Approx.φ 8mm
	Power source	Four AA-Size batteries or optional AC Adapter
	Dimensions	W59×H158×D85mm
	Weight	360g(Not including battery)



3. SHINSENSA

The Shinsensa estimates freshness of rice. By measuring the changing color of a reagent with a sensor the Shinsensa displays the freshness of a rice sample by numerical value. Since it is easy to use, the Shinsensa improves the efficiency and reduces the time of operation.

Model	RFDM1A
Measuring object	brown rice, polished rice
Freshness degree	10~100
Light generation	White LED
Photo acceptance unit	Photo diode
Voltage	AC100V
Electric current	Less than 1A
Weight	3.5kg
Dimensions	L274×W145×H224mm

