

Specifications

Model	RA-620	RA-600
Measuring Method	Detection of Critical Angle of Optical Refraction	
Light Source	LED Na-D Line (589.3nm)	
Measuring Range	Refractive Index (nD)	1.32000 ~ 1.58000
	Brix	0.00 ~ 100.00%
Accuracy *1	Refractive Index (nD)	±0.00002
	Brix	±0.03% (0 ~ 85.0%)
Repeatability *2	Refractive Index (nD)	±0.00001
	Brix	±0.01%
Resolution	Refractive Index (nD)	0.00001
	Brix	0.01%
Temperature Control	Peltier Thermostat 5 ~ 75°C *3	
Temperature Indication Resolution	0.01°C	
Minimum Amount of Sample	0.2mL	
Display	4.7-inch Backlit Colour LCD	
Operation	Touch Screen	
Security	Password Protection	
Data Storage	Number of Methods	Up to 100
	Measurement Results	Up to 300 (Can be stored in a USB flash drive.)
	Calibration Record	Up to 20
	Check Record	Up to 20
	External Storage	USB Flash Drive
Temperature Compensation	Brix 5.00 ~ 75.00°C(Automatic compensation by preprogrammed conversion table.)	
Conversion to Concentration	Calculation from Conversion Table Up to 10	
Interfaces	LAN	1 port for personal computer (PC)
	USB1.1	2 ports (for USB flash drive, A4-size printer, barcode, keyboard)
	RS-232C	2 ports (for IDP-100, CHD-502)
Ambient Conditions	Temperature	5 ~ 35°C
	Humidity	85%RH or below (No condensation allowed.)
Power Supply	AC 100~240 V, 50/60 Hz (AC adapter supplied with instrument.)	
Power Consumption	20 W (max. 50 W, min. 10 W)	
Dimensions	191(W) × 281(D) × 161(H)mm	
Weight	5kg	
Materials in Contact with Samples	Prism	Artificial Sapphire
	Sample Stage	SUS316
Expandability	Barcode Reader	Sample name, measurement conditions and value of standard liquids can be entered.
	PC Software	Edit of parameters and data administration can be conducted. (Personal computer required.)

*1 Results under KEM's standard measurement conditions.

*2 Results under KEM's standard measurement conditions. Subject to sample properties.

*3 Lower limit subject to ambient temperatures.

■ Safety Measures
Carefully read the Operation Manual before use.
Ensure that appropriate power source is used.



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**2009 Release
New Model**

KYOTO ELECTRONICS
MANUFACTURING CO.,LTD.

New Refractometers (RA Series) from KEM Space-saving Design with Enhanced Accuracy



Space-saving of "A4 Size" and Easy Maintenance

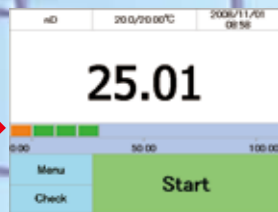
Half of existing models in size and in weight (*3). Reduced weight and easy maintenance with aluminum die casting housing. Can be installed anywhere in a limited space of lab.

*3 Comparison with our existing models.



Calibration Navigator

A warning message will appear when the calibration results are significantly different from the previous ones, advising you of possibility of insufficient cleaning or wrong calibration liquid.



Indicator allows you to visually grasp concentration range.

Graphic indicator along with measurement value allows you to visually grasp concentration range.

Higher Accuracy & Wide Measuring Range

- Accuracy of ± 0.00002 nD (RA-620).
(Confirmed under KEM's standard measurement conditions.)
- Wide measuring range of refractive index (nD) -- 1.3200~1.7000 (RA-600).
Best suited for samples with higher refractive index.
(e.g. Flavours and fragrances.)

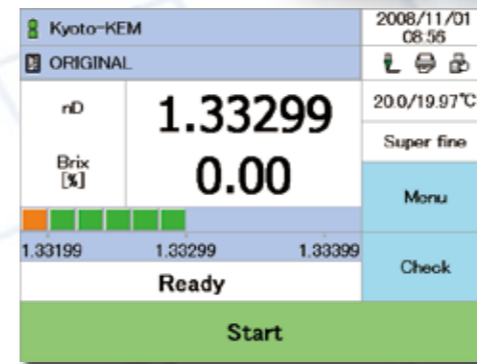
Wider Range of Temperature Control

Wider range of 5~75°C. Suitable for measurement of high-melting-point petroleum or oil and fat.
(Lower limit subject to ambient temperatures.)

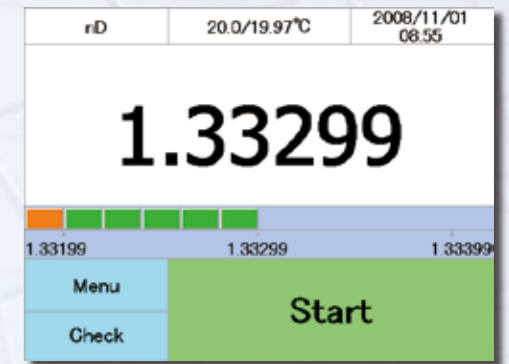
"4.7-inch TFT Colour LCD" & "Touch Screen Operation"

Easy view of various info. Straightforward user-friendly operation. Display colours can be changed.

Easier Reading in Simple Mode



Normal Mode



Simple Mode

Part Name

