A670 / A630
Automatic Refractometer

Hanon A670/A630 Automatic Refractometer adopts high-performance CCD light-sensitive part, it can automatically measure the refractive index(nD) of transparent, translucent, dark, viscous and other types liquid sample, also can measure sugar degree(Brix) of sugar solution. It's accurate, reliable, fast, easy operation. Full compliance with FDA 21CFR part.11. A670 innovative use of cloud service systems, all the data from instrument can update to cloud server, especially for group company or government customer, automatic refractometer has a wid range of use, within the field of factories, university and related scientific research institute, petroleum, oil, pharmaceutical, paints, food, daily chemical, sugar and geological prospecting industries.

Characteristics

- Completely meet the requirements of user ID classification & tracking, E-signature, and Data tamper-proof, which listed in FDA 21CFR part.11.
- High measuring resolution up to 0.00001(nD)/0.01%(Brix) (A670 only).
- Peltier accurate temperature control system is built-in, accuracy up to 0.02℃.
- Measuring prism is made of high hardness sapphire glass, of excellent properties against corrosion and scratches, free for clean and durable.
- High-resolution CCD detector offers automatic measurement, avoiding personal errors, having higher accuracy; transparent, translucent liquids or ropiness liquids samples are all available.
- High brightness LED light source with service life more than 100000 hours.
- 7-inch colour touch screen with Android system and 4GB RAM let methods and data expanding excellent.
- 2 x USB, 1 x RS232, 1 x Ethernet, can be easily connected, printer and network to facilitate users to export data or backup.

Multiple Samples Suitability

Automatic Refractometer is widely used on kinds of industries, it is one of the most common instruments in the oil industry, pharmaceutical industry, paint industry, food industry, daily chemical industry, sugar industry, geological exploration or institutions.
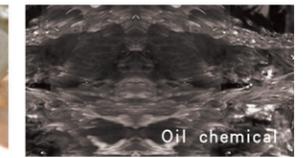
Perfect Measuring Prism

Measuring prism is made of high hardness sapphire glass, of excellent properties against corrosion and scratches, free for clean and durable.

High Performance CCD Sensor

High-resolution CCD detector offers automatic measurement, avoiding personal errors, having higher accuracy; transparent, translucent liquids or ropiness liquids samples are all available.

Ultra Long Life Light Source

LED cold light source with the long working life more than 100000 hours

Food

Cosmetic

Pharmaceuticals

Oil chemical

Technical data

	A670	A630
Refractive index measuring range (nD)	1.30000-1.70000	1.3000-1.7000
Measured value error (nD)	±0.0001	±0.0002
Measurement resolution (nD)	0.00001	0.0001
Scope of sugar solution mass fraction (Brix)	0-100%	0-100%
Measured value error (Brix)	±0.1%	±0.1%
Measurement resolution (Brix)	0.1%/0.01%	0.1%
Temperature control mode	Peltier	Peltier
Scope of temperature measuring	0-100℃	0-100℃
Temperature control range	5-80 ℃	10-50℃
Temperature control accuracy	±0.02℃	±0.1℃
Interface	RS232/USB/SD card/U disk/Internet/wi-fi	RS232/USB/SD card/U disk/Internet
Data storage capacity	4GB	4GB
Display modes	7 inches, TFT touch screen	7 inches, TFT touch screen
Power supply(Power adapter)	110V~240V(12V,10A)	110V~240V(12V,10A)
Power	45W	45W
Net weight	5kg	5kg
Dimensions	365mmX300mmX150mm	365mmX300mmX150mm