

## Automatic multi-channel osmometer

Unattended multi-sample  
freezing point osmometer

# OM-6080

- Instantaneous ultra-quiet oscillating crystallization technology
- System controlled sampling
- automatic calibration
- Closed probe design
- Probe rinse
- Stat measurements

- **European Pharmacopoeia**
- **United States Pharmacopoeia**
- **Japanese pharmacopoeia**
- **Chinese pharmacopoeia**

Comply with 21 CFR Part 11, GMP and EU Annex 11 related requirements





## OM-6080

Optimal Selection for You!

### Wide application

The OM-6080 automatic freezing point osmometer is widely applicable in pharmaceutical enterprises, including manufacturers of injections, eye drops, and vaccines. It is also highly suitable for use in Drug Inspection Institutes, Scientific Research Institutes, universities, and sports beverage companies.

### Advanced technology

The OM-6080 osmometer, launched by YASN in 2023, is a highly advanced and fully automated multi-sample freezing point osmometer that operates without human intervention. It has been well accepted by customers because of its reliable performance, closed probe design and automatic probe cleaning technology.

### Robust functionalities cater to the demands of R&D

OM-6080 features automatic sample injection, eliminating the need for a pipette. The sample volume is precisely controlled by the system, and sample detection is automatically performed. After the measurement is completed, the system automatically cleans the entire system, including the tubing and measurement components, without any human intervention.

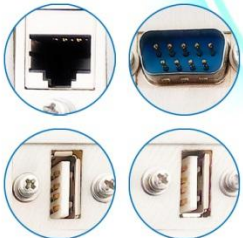
The system ensures precise control over the sample volume, automatic sample loading, measurement, and report printing. In comparison to manually sampled products available in the market, the OM-6080 osmometer exhibits a higher level of automation, effectively catering to the requirements of clinical, R&D, and quality control customers.

## 10.1 inch LCD touch screen

A high-resolution LCD touch screen with adjustable viewing angles to accommodate the user's preferences and usage habits.

## Closed probe design

The probe is not exposed, eliminating the need for wiping and thereby reducing the failure rate of the probe.



## Data Management

Multiple data management options: open communication protocol (OPC-UA), USB download, network sharing, LIS (TCP/IP communication) or optional printer.



## Automatic Probe Cleaning

The entire system, including the pipelines and detection components, undergoes a thorough cleaning with a specialized solution in between two tests to prevent any potential cross-contamination and enhance the overall accuracy.

## 24-sample ports

The automatic sample injection system ensures precise control over both the injection and sample volume.

**OM-6080 is purpose-built for biopharmaceutical applications!**



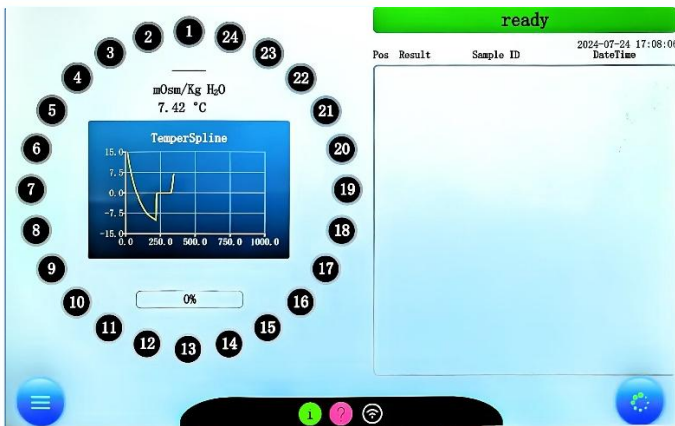
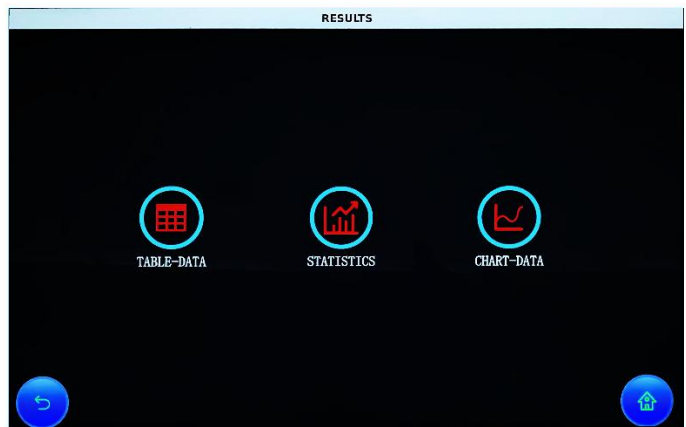
## Free Calibration Function (Essential for Pharmaceutical Companies)

Default calibration points are 2000, 700, and 100 mosm, which can calibrate the measurement range from 0 to 2000 mosm.

Custom calibration points: any two points other than 0 mosm can be calibrated, allowing users to customize the high calibration point and low calibration point according to their measurement requirements.

## Data Analysis

The measurement data report is categorized into three formats: data tables, data statistics, and data charts. Users have the flexibility to select the appropriate report format based on their workflow and architecture. Regardless of the chosen format, it will facilitate users in gaining a more intuitive understanding of the data and enable them to provide enhanced services.

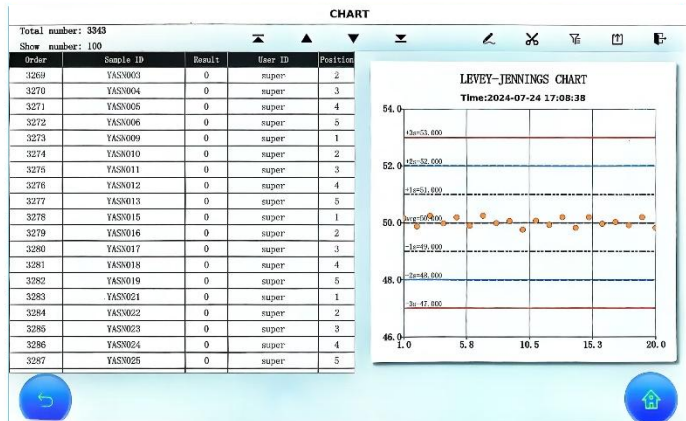


## Measurement Interface

The measurement interface primarily presents the sample number, temperature curve, and measurement data in real-time, providing a clear and intuitive view of the testing process and data.

## Data Graphs

The measurement data is summarized and transformed into graphical form in order to directly derive analysis results. Visual symbols are utilized to enhance the comprehensibility of the data for customers.



## Technical Specification

Sample Type:	aqueous solution
Sample Volume:	200µl or more
Test Time:	Approx. 2 minutes/sample
Sample Capacity:	24 samples
Resolution:	1 mOsm/kg H <sub>2</sub> O
Measurement Range:	0-2000 mOsm/kg H <sub>2</sub> O
Accuracy <sup>1</sup> :	0-400 mOsm/kg H <sub>2</sub> O: ±3 mOsm/kg H <sub>2</sub> O (1 SD) 400-2000 mOsm/kg H <sub>2</sub> O: ±0.75% (1 SD)
Repeatability <sup>2</sup> :	0-400 mOsm/kg H <sub>2</sub> O: SD≤3 mOsm/kg H <sub>2</sub> O 400-2000 mOsm/kg H <sub>2</sub> O: CV≤0.75%
Language:	Chinese, English
Storage Temperature:	-20°C~+45°C(-4°F~+113°F)
Voltage:	100-240VAC(50/60Hz)
Power:	100W
Dimensions (L×W×H):	320x460x447 mm
Weight:	Mainframe: 18kg, turntable: 3kg

## Standard Configuration

1 set	OM-6080 multi-sample osmometer
1 set	Calibration Solution Set (incl. 700 and 100mosm calibration standard)
1 bottle	Cleaning solution, 500ml
1 pcs.	Cleaning bottle
1 pcs.	Waste bottle
1 set	External dot matrix printer

