

Global Fruit Quality Non-destructive Tester Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fruit Quality Non-destructive Tester market size is expected to reach \$ 689 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Fruit quality non-destructive tester utilizes technology such as spectroscopy or optical imaging to rapidly determine the internal quality (e.g., sugar content, acidity, moisture, internal defects) and external characteristics (e.g., color, size, blemishes) of fruits without damaging their appearance or internal structure. Their core function is to address the problems of low efficiency, poor representativeness, and inability to achieve individual sorting and real-time monitoring in traditional destructive sampling testing. This drives the fruit industry to upgrade from 'sampling statistics' to 'full-volume testing,' and from 'human experience' to 'data-driven decision-making,' significantly improving product consistency, reducing losses, and optimizing supply chain value. The upstream supply chain mainly includes technology companies providing core sensors and optical components (e.g., spectrometers, high-resolution cameras, lasers), precision mechanical modules, analytical algorithm software, and special materials (e.g., light-transmitting/reflective materials). Downstream applications cover the entire fruit industry chain, directly serving large-scale plantations, deep-processing enterprises, quality control centers of large supermarkets and e-commerce platforms, as well as agricultural research institutions and intelligent sorting equipment integrators providing technical support. The ultimate goal is to achieve end-to-end data-driven quality control from farm to table. In 2025, the production of fruit quality non-destructive tester is expected to reach approximately 120,000 units, with an average price of approximately US\$4,000 per unit, a gross profit margin of approximately 40%, and a single production line capacity of approximately 2,400 units per year.

This report studies the global Fruit Quality Non-destructive Tester production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fruit Quality Non-destructive Tester and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fruit Quality Non-destructive Tester that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fruit Quality Non-destructive Tester total production and demand, 2021-2032, (Units)

Global Fruit Quality Non-destructive Tester total production value, 2021-2032, (USD Million)

Global Fruit Quality Non-destructive Tester production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Fruit Quality Non-destructive Tester consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Fruit Quality Non-destructive Tester domestic production, consumption, key domestic manufacturers and share

Global Fruit Quality Non-destructive Tester production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fruit Quality Non-destructive Tester production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Fruit Quality Non-destructive Tester production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fruit Quality Non-destructive Tester market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Felix Instruments (Unlisted, WA USA), JW Industrial Instruments Pty Ltd (Unlisted, NSW Australia), ATAGO CO., LTD. (Unlisted, Tokyo Japan), Sunforest Co., Ltd. (Unlisted, Incheon Korea), STEP Systems GmbH (Unlisted, Nuremberg Germany), Zhejiang Top Cloud-agri Technology Co., Ltd. (SHE: 301556, Zhejiang China), Focused Photonics Inc. (SZSE: 300203, Zhejiang China), Beijing Jingcheng Huatai Instrument Co., Ltd. (Unlisted, Beijing China), Beijing Yang Guang Yishida Technology Co., Ltd. (Unlisted, Beijing China), Optosky Photonics Co., Ltd. (Unlisted, Xiamen China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fruit Quality Non-destructive Tester market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fruit Quality Non-destructive Tester Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fruit Quality Non-destructive Tester Market, Segmentation by Type:

Portable Type

Benchtop Type

Global Fruit Quality Non-destructive Tester Market, Segmentation by Core Testing Technology:

Near-Infrared Spectroscopy Technology

Hyperspectral/Multispectral Imaging Technology

Laser-based Detection Technology

X-ray Imaging Technology

Global Fruit Quality Non-destructive Tester Market, Segmentation by Application:

Plantation

Agricultural Product Processing Plant

Supermarket

Other

Companies Profiled:

Felix Instruments (Unlisted, WA USA)

JW Industrial Instruments Pty Ltd (Unlisted, NSW Australia)

ATAGO CO., LTD. (Unlisted, Tokyo Japan)

Sunforest Co., Ltd. (Unlisted, Incheon Korea)

STEP Systems GmbH (Unlisted, Nuremberg Germany)

Zhejiang Top Cloud-agri Technology Co., Ltd. (SHE: 301556, Zhejiang China)

Focused Photonics Inc.(SZSE: 300203, Zhejiang China)

Beijing Jingcheng Huatai Instrument Co., Ltd. (Unlisted, Beijing China)

Beijing Yang Guang Yishida Technology Co., Ltd. (Unlisted, Beijing China)

Optosky Photonics Co., Ltd. (Unlisted, Xiamen China)

Yueqing Newjieli Electronic Co., Ltd. (Unlisted, Zhejiang China)

Key Questions Answered:

1. How big is the global Fruit Quality Non-destructive Tester market?
2. What is the demand of the global Fruit Quality Non-destructive Tester market?
3. What is the year over year growth of the global Fruit Quality Non-destructive Tester market?
4. What is the production and production value of the global Fruit Quality Non-destructive Tester market?
5. Who are the key producers in the global Fruit Quality Non-destructive Tester market?
6. What are the growth factors driving the market demand?

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