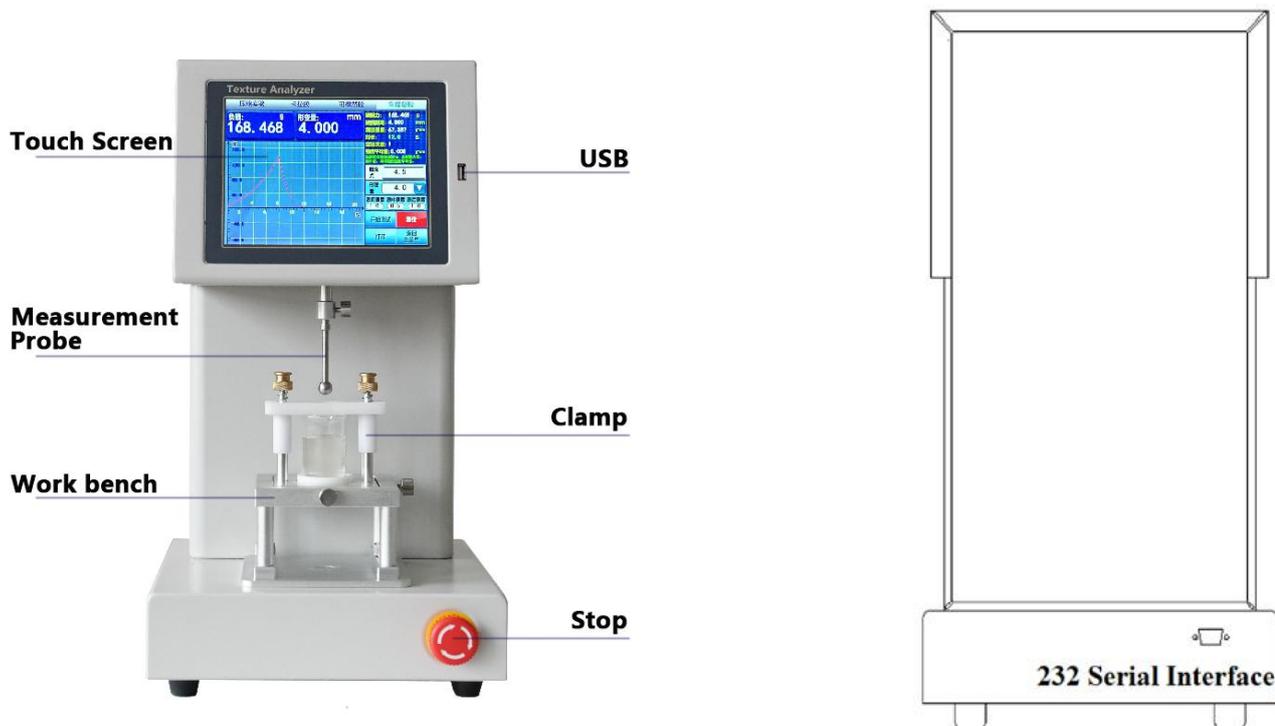# Texture analyzer JS-5

Introduction

The texture analyzer features secondary cycling, TPA compression testing, tension and tension testing, two optional benchmark workbenches, and more flexible and versatile accessory options. All of these goals; It is to provide a simple and rapid measurement for the physical property analysis of food, quality evaluation of gelatin food additives, fresh produce, fruits and vegetables, dairy products, meat and other samples: gelatin coagulation strength, hardness, elasticity, viscosity, brittleness, cohesiveness, chewiness, smearability, tensile strength, rupture strength, shear strength, creep characteristics, relaxation characteristics, peel strength, and other indicators.

The main features of this instrument are:

1. The texture analyzer is equipped with an 8-inch high-definition touch screen, which can be used to directly control the texture analyzer without the computer.

2. Can connect to a computer, load the professional version of the texture analyzer system software, and share system control analysis resources for high-end texture analyzer models.

3. The texture analyzer is used to analyze the physical properties of gelatin, carrageenan, Cotyran gum, frozen surimi gel, agar composite hydrogel, collagen gel strength, pharmaceuticals, dairy products, meat products, cosmetics, grain and oil foods, fruits and vegetables, bread and biscuit baked food, candy, jam, and other samples; It can accurately quantify the physical properties of samples, such as coagulation strength, hardness, brittleness, tenderness, elasticity, toughness, cohesiveness, cohesion, crispness, chewiness, recovery, fracture strength, shear strength, compressive strength, penetration strength, creep characteristics, relaxation characteristics, etc.

Texture Analyzer Host is shown in Fig1:

Performances and Parameters

- Test range: 0-5000 g
- Resolution: 0.001 g
- Accuracy: ±0.1% FSR
- Real-time mapping test curve on the color touching screen
- Moving Range: 0~110 mm
- Moving Resolution: 0.001 mm
- Moving Accuracy: ±0.1 mm
- Speed Range: 0.1 mm/s~10 mm/s
- Speed Resolution: 0.1 mm/s
- Speed Accuracy: ±1% Pre-Set
- Pre-test speed, test speed, Post-test speed can be set
- Six Test Modes:
  - Bloom
  - Carrageenan tes
  - Ke De Ran Glue Test
  - Surimi gel tes
  - Normal (Compression, puncture, bending, shearing)
  - Hold Time
  - Cycle Count
  - Texture Profile Analysis (TPA)
  - Tension
- Calibration:
  - Force sensor correction
  - Displacement sensor correction
- Administrator parameter setting
  - Trigger point: 1 g~500 g, Resolution 0.1 g
  - Range of the Deformation: 0~90 mm, Resolution 0.1 mm
  - Speed: 0.1 mm/s~10 mm/s, Resolution 0.1 mm/s
  - Hold Tim: 1-9999s
  - Number of Compression: 1-200
- Data Export:
  - 232 Serial Port
  - USB Port
- Volume:
  - Length 330 mm
  - Width 290 mm
  - High 530 mm
- Weight: 14.3 Kg