

## Full Spectrum Food Safety Detector

## ATFD300

### Features

Built-in multi-function: full spectrum measurement, ultrasonic dissolution, constant temperature water bath, air blowing

Drying, odor adsorption, electronic balance, etc.

Full spectrum detection, can detect 8 samples at a time;

Fast measurement speed: 10ms to measure all parameters;

Measuring spectral range: 190-1020nm or 350-800nm;

Imported pulse xenon lamp or halogen lamp, all solid-state optical system;

Imported linear array CCD receiver;

No moving parts, wavelength resolution;

Adopt 7-inch large-screen color LCD display, touch operation;

Extended function: increase GPS, GPRS module, etc.

### Application

Food Safety Testing

Water quality testing

scientific research

biochemical research

### Description

ATFD300 multifunctional full-spectrum food safety detector, in addition to the spectral food safety detection function, it also has built-in ultrasonic dissolution, constant temperature Water bath, air drying, odor adsorption, electronic balance and other functions, It can be used to detect acesulfame potassium, amino acid nitrogen, malondialdehyde, Tea polyphenols, protein, iodine, hanging white block, sulfur dioxide, fluoride, Proline, cadmium, chromium, industrial caustic soda, sodium glutamate, fructose, fructose And glucose, benzoyl peroxide, peroxide value, methanol, formaldehyde, Brilliant Blue, Sodium Thiocyanate, Potassium Aluminum Sulfate, Magnesium Sulfate, Rhodamine B, Urine toxin, tartrazine, pesticide residues, borax, lead, hydroxymethylfurfural, Japanese Falling yellow, sorbic acid (potassium sorbate), arsenic, edible oil surfactant, Edible oil acid value, hydrogen peroxide, sodium saccharin, cyclamate, amaranth, nitrate salt, potassium bromate, nitrite, carmine, ethanol, residual chlorine, sucrose Sugar, sesame oil purity, total acid, histamine, etc..



## Technical Parameters

| The project                    | Parameter   |   |
|--------------------------------|---|---|
|                                | ATFD 300- VIS   | ATFD 300- UV  |
| Optical system                 | Convergent tungsten light source, planar holographic grating light splitting        | Pulse xenon lamp light source, no need warm up, ready to use, long life reach 10 years, no need to change bulbs |
| Measurement method             | Food quality analysis, spectral scanning, quantitative determination, time scanning |   |
| Detector                       | 2048 pixel high sensitivity CCD   |   |
| display                        | 7-inch color LCD monitor with a resolution of 1280 x 720                            |   |
| input                          | Capacitive touch screen, support multi-touch  |   |
| wavelength range               | 350 nm ~ 800 nm continuous spectrum   | 190-1020 nm continuous spectrum   |
| Wavelength indication error    | ± 0.1nm   | ± 0.13nm  |
| wavelength repeatability       | ≤0.1nm  | ≤0.1nm  |
| baseline straightness          | ±0.005 Abs  | ± 0.005 Abs   |
| the noise to drift             | ≤0.5%τ  | ≤0.5%τ  |
| stray light                    | ≤ 0.5%τ/ 30min  | ≤ 0.5%τ/ 30min  |
|                                | ± 1.0 %τ (420 nm )  | ± 1.0 %τ ( 420nm )  |
| Number of sample channels      | 8   | 8   |
| Cuvette                        | 10 mm standard cuvette  | 10 mm UV Cuvette  |
| Transmittance indication error | ± 1.0%τ   | ± 1.0%τ   |
| Transmittance Repeatability    | ≤±0.5 % τ   | ≤±0.5 % τ   |
| Instrument quality             | about 7 kg  | about 7kg   |
| Spectral bandwidth             | 1nm   | 1nm   |
| Camera                         | 200 Ten thousand  | 200 Ten thousand  |
| memory capacity                | 2GB   | 2GB   |
| storage space                  | 16GB  | 16GB  |
| complete machine               |   |   |
| power adapter                  | 220V / 50Hz   | 220V / 50Hz   |
| Machine power                  | 60W   | 60W   |
| environmental conditions       | temperature: -10 ~ 40°C; Humidity: ≤85%   | temperature: -10 ~ 40°C; Humidity: ≤85%   |
| weight                         | 7KG   | 7KG   |
| Dimensions                     | 345 mm × 290 mm × 150 mm  | 345 mm × 290 mm × 150 mm  |

