



## SCANNING VISIBLE SPECTROPHOTOMETER BIX-301

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## VISIBLE SPECTROPHOTOMETER



**High Level of Intelligence:** Controlled by an ARM chip for fast data processing, equipped with a 128x64 dot array graphic LCD display, featuring rich instructions for ease of use. It supports USB data export, one - click system upgrades, customizable wavelength calibration values, and automatic wavelength calibration, eliminating the need for manual adjustments. The lamp usage time is automatically accumulated for easy monitoring. The lamp source switch menu can be closed when the instrument is not in use, effectively extending the instrument's lifespan. It supports automatic language switching between Chinese and English in file management.

**Comprehensive Menu Functions:** It includes built - in programs for photometry, quantitative measurement (standard curve), spectrum scanning, time scanning, DNA/protein measurement, instrument verification measurement, multi - wavelength meas

## SPECIFICATIONS

| Model                            | BIX-301                                     |
|----------------------------------|---------------------------------------------|
| Wavelength Range                 | 320-1100nm                                  |
| Spectral Bandwidth               | 2nm                                         |
| Wavelength Accuracy              | ±1nm                                        |
| Optical System                   | Single beam; with 1200 line/mm grating      |
| Wavelength Repeatability (nm)    | ≤0.5                                        |
| Transmittance Accuracy (%T)      | ≤0.5                                        |
| Transmittance Repeatability (%T) | ≤0.2                                        |
| Stray Light (%T)                 | ≤0.1 @ 360 nm                               |
| Spectral Range                   | 0-200%T, -0.301-3A, 0-9999C (0-9999F)       |
| Light Source                     | Tungsten lamp & Deuterium lamp              |
| Monitor                          | Graphic LCD (128x64)                        |
| Language                         | Chinese, English                            |
| Data Output                      | U Disk, Bluetooth, Upload to PC by USB port |
| Data Format                      | CSV                                         |
| Power Supply                     | AC90-250V / 50-60Hz                         |
| Size (LxWxH) mm                  | 450x390x210                                 |
| Weight (kg)                      | 11                                          |
| Alt Name                         | Visible Spectrophotometer                   |

## FEATURES

**High Level of Intelligence:** Controlled by an ARM chip for fast data processing, equipped with a 128x64 dot array graphic LCD display, featuring rich instructions for ease of use. It supports USB data export, one - click system upgrades, customizable wavelength calibration values, and automatic wavelength calibration, eliminating the need for manual adjustments. The lamp usage time is automatically accumulated for easy monitoring. The lamp source switch menu can be closed when the instrument is not in use, effectively extending the instrument's lifespan. It supports automatic language switching between Chinese and English in file management.

**Comprehensive Menu Functions:** It includes built - in programs for photometry, quantitative measurement (standard curve), spectrum scanning, time scanning, DNA/protein measurement, instrument verification measurement, multi - wavelength measurement, and more.

**Convenient Data Processing:** It can store up to 1000 sets of experimental data and can be equipped with built - in or external miniature printers for output. Additionally, it can be connected to a computer with dedicated analysis software for more data

processing and analysis capabilities.

Multiple Optional Accessories: Available accessories include an 8 - position automatic sample rack, single - slot microsample rack (minimum measurable 50 samples), 5 - 10 cm sample racks (suitable for water quality testing), and single - slot or three - slot water bath cuvette racks (suitable for temperature - controlled sample requirements), expanding its application in various fields. Optional PC control software is also available for extended functionality.



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