PULYLAB

UV-Vis

Spectrophotometer

Shanghai Puly Instruments Co., Ltd.

Company Introduction

Shanghai Puly Instruments Co., Ltd.

Shanghai Puly Instruments Co., Ltd. is a professional manufacturer specializing in spectrophotometers and other spectroscopic analytical instruments. With extensive experience in the analytical instrumentation industry, Puly provides integrated capabilities covering product development, manufacturing, sales, technical support, and instrument maintenance.

Committed to reliable performance and practical analytical solutions, Puly strives to be a trusted instrumentation partner for scientific research, laboratory analysis, and industrial applications.

Core Business: Instruments & Services

Puly focuses on the essential needs of analytical laboratories and has developed a product portfolio centered on spectrophotometers and related spectroscopic instruments.

Beyond instrumentation, the company provides comprehensive support throughout the product lifecycle, helping customers achieve reliable operation, efficient analysis, and long-term instrument performance.



Looking Ahead: Advancing Precision Analysis

As analytical instrumentation continues to evolve toward greater intelligence and automation, Puly will remain focused on spectroscopy and analytical instrumentation while strengthening technical collaboration with research institutions and continuously improving product performance and customization capabilities.

Looking ahead, the company will further expand into key application areas such as environmental monitoring and biopharmaceuticals. Through continuous product innovation and service enhancement, Puly aims to deliver greater value to customers and support advances in scientific research and industrial development.



Contents

UV-Vis Spectrophotometer Overview ---- 1

V30 Vis Spectrophotometer
UV30 UV-Vis Spectrophotometer

Product Overview & Features ---- 2
Functions & Specifications ---- 3

V50 Vis Spectrophotometer
UV50 UV-Vis Spectrophotometer

Product Overview & Features ---- 4
Functions & Specifications ---- 5

UV50D
Double-Beam UV-Vis Spectrophotometer

Product Overview & Features ---- 6
Functions & Specifications ---- 7

UV70/UV70S
Split-Beam UV-Vis Spectrophotometer

Product Overview & Features ---- 8
Functions & Specifications ---- 9

UV70D/UV70DS
Double-Beam UV-Vis Spectrophotometer

Product Overview & Features ---- 10
Functions & Specifications ---- 11

Service & Support ---- 12

UV-Vis Spectrophotometer

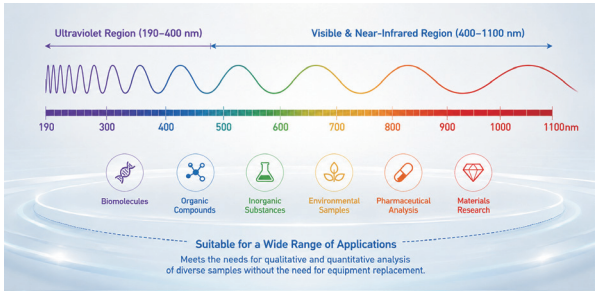
Cross-Disciplinary Applications

Suitable for research in physics, chemistry, medicine, biology, and geology, as well as quality control in chemical, pharmaceutical, biochemical, metallurgical, environmental, and food industries—an ideal all-in-one solution for routine laboratories.



UV-Vis-NIR Coverage

Covers a wavelength range of 190–1100 nm, spanning the UV, visible, and near-infrared regions, and supports qualitative and quantitative analysis of various samples with a single instrument.



Dedicated Analysis Functions

Six built-in modes: Photometric, Concentration, Spectrum Scan, Time Scan, DNA/Protein, and Multi-Wavelength Measurement.



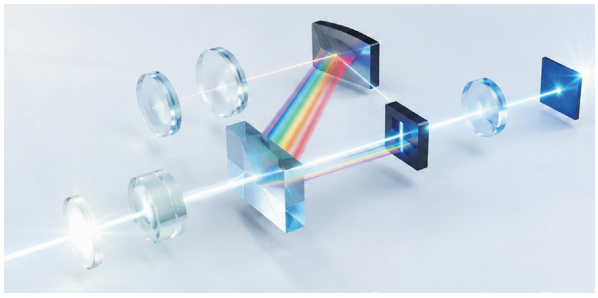
Intuitive Visual Interface

A large high-resolution color LCD provides a clear, intuitive interface with minimal need to consult the manual, and remains easy to use even with gloves.



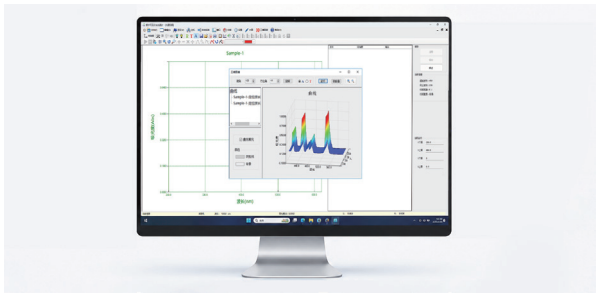
Advanced Optical System

A low-stray-light, high-resolution optical system with high-quality optical components ensures excellent stability, reproducibility, and measurement accuracy.



Flexible Expansion

Dedicated Windows software supports data fitting, spectral comparison, and batch analysis, with optional accessories such as an automatic sample changer and external printer for future expansion.



V30 Vis Spectrophotometer
UV30 UV-Vis Spectrophotometer



Product Overview

The 30 Series spectrophotometers are ideal analytical instruments for education and QC laboratories. Standard curves can be easily generated using single- or dual-wavelength measurements. They are widely used in colleges and QC labs.

Features

- Excellent optical and electronic system
- Low noise and low stray light
- Large LCD display (128 × 64 dots) with curve display capability
- High-quality grating, detector, and lamps
- Data and curves can be stored in real time
- Automatic wavelength setting and blanking
- Lamps can be turned on/off individually
- Easy replacement of pre-aligned lamps
- Reinforced baseplate and bracket ensure durability

V30 Vis Spectrophotometer
UV30 UV-Vis Spectrophotometer



Functions

Photometric
T%, Abs

Quantitative
Standard Curve

WL Scan
(Spectrum Scan) (PC)

Time Scan
(Kinetics) (PC)

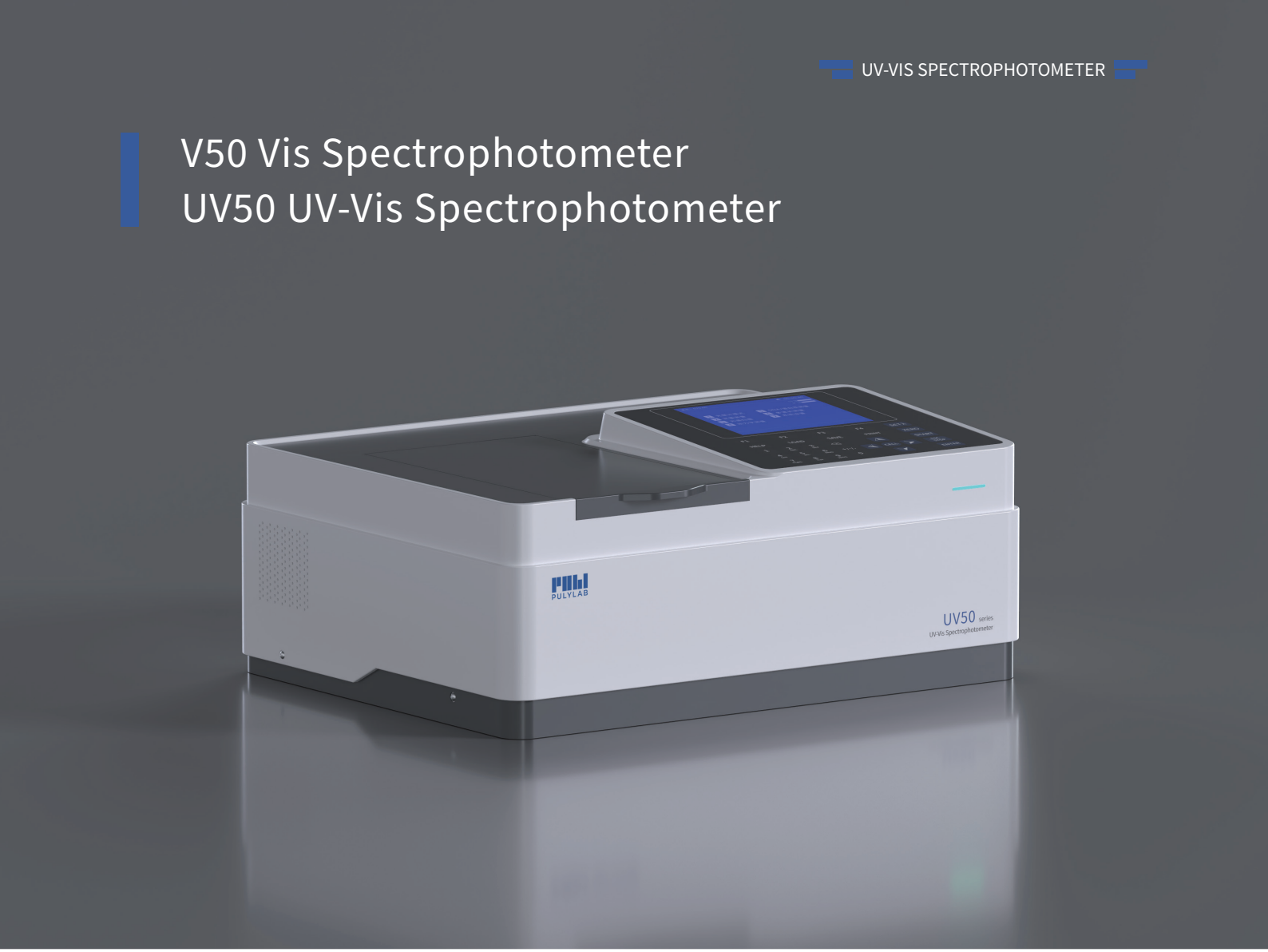
DNA/Protein Test
(PC)

Multi-WL Test
(PC)

Specifications

Model	V30	UV30
Wavelength Range	320–1100 nm	190–1100 nm
Spectral Bandwidth	2.0 nm (4.0 nm optional)	
Optical System	Single-Beam, Blazed Holographic Grating (1200 lines/mm)	
Wavelength Accuracy	±0.5 nm	
Wavelength Repeatability	⩽0.2 nm	
Wavelength Setting	Automatic, 0.1 nm resolution	
Photometric Range	0–200%T, -0.3–3 A, 0–9999 C	
Photometric Accuracy	±0.002 A (0–0.5 A), ±0.004 A (0.5–1 A), ±0.3%T (0–100%T)	
Photometric Repeatability	⩽0.001 A (0–0.5 A), ⩽0.002 A (0.5–1 A), ⩽0.15%T (0–100%T)	
Stray Light	⩽0.05%T (220/360 nm)	
Scan Speed	High, Medium, Low; Max. 2000 nm/min	
Baseline Flatness	±0.002 A	
Stability	±0.002 A/h (500 nm, 0 A)	
Noise	⩽0.2%T/3 min (250/500 nm, 0%T); ⩽0.5%T/3 min (250/500 nm, 100%T)	
Sample Compartment	Accommodates 5–100 mm path length cuvettes	
Detector	Silicon Photodiode	
Lamps	Tungsten lamp & deuterium lamp (pre-aligned)	
Display	Graphic LCD (128 × 64 dots)	
Keypad	22-key Numeric Membrane Keypad	
Output Ports	USB Port & RS-232 Port	
Printer	Mini Printer (Optional); PC Printer (Optional)	
PC Software	PC Software (Optional)	
Power Requirements	AC 90–250 V, 50/60 Hz	
Dimensions	460 × 360 × 210 mm	
Weight	16 kg	18 kg

V50 Vis Spectrophotometer
UV50 UV-Vis Spectrophotometer



Product Overview

The 50 Series spectrophotometers use a single-beam optical system. They feature a fixed 1.8 nm spectral bandwidth and a large LCD, and support both quantitative and qualitative analysis. They are widely used in colleges and QC labs.

Features

- Excellent optical system ensures low noise and low stray light
- High-speed MCU, high-precision A/D conversion, and large storage capacity
- Large LCD display (320 × 240 dots)
- High-quality grating, detector, and lamps
- Data and curves can be stored in real time
- Automatic wavelength setting and blanking
- Lamps can be turned on/off individually
- Easy replacement of pre-aligned lamps
- Reinforced baseplate and bracket ensure durability

V50 Vis Spectrophotometer
UV50 UV-Vis Spectrophotometer



Functions

Photometric
T%, Abs

Quantitative
Standard Curve

WL Scan
(Spectrum Scan)

Time Scan
(Kinetics)

DNA/Protein Test

Multi-WL Test

Specifications

Model	V50	UV50
Wavelength Range	320–1100 nm	190–1100 nm
Spectral Bandwidth	1.8 nm	
Optical System	Single-Beam, Blazed Holographic Grating (1200 lines/mm)	
Wavelength Accuracy	±0.5 nm	
Wavelength Repeatability	⩽0.2 nm	
Wavelength Setting	Automatic, 0.1 nm resolution	
Photometric Range	0–200%T, -0.3–3 A, 0–9999 C	
Photometric Accuracy	±0.002 A (0–0.5 A), ±0.004 A (0.5–1 A), ±0.3%T (0–100%T)	
Photometric Repeatability	⩽0.001 A (0–0.5 A), ⩽0.002 A (0.5–1 A), ⩽0.15%T (0–100%T)	
Stray Light	⩽0.05%T (220/360 nm)	
Scan Speed	High, Medium, Low; Max. 3000 nm/min	
Baseline Flatness	±0.002 A	
Stability	±0.001 A/h (500 nm, 0 A)	
Noise	⩽0.2%T/3 min (250/500 nm, 0%T); ⩽0.4%T/3 min (250/500 nm, 100%T)	
Sample Compartment	Accommodates 5–100 mm path length cuvettes	
Detector	Silicon Photodiode	
Lamps	Tungsten lamp & deuterium lamp (pre-aligned)	
Display	Graphic LCD (320 × 240 dots)	
Keypad	30-key Alphanumeric Membrane Keypad	
Output Ports	USB Port & Parallel Port	
Printer	Mini Printer (Optional); PC Printer (Optional)	
PC Software	PC Software (Optional)	
Power Requirements	AC 90–250 V, 50/60 Hz	
Dimensions	460 × 360 × 210 mm	
Weight	18 kg	20 kg

UV50D
Double-Beam UV-Vis Spectrophotometer



Product Overview

The 50D Series spectrophotometers use a double-beam optical system. They feature a large LCD and support both quantitative and qualitative analysis. They are widely used in colleges and QC labs.

Features

- Excellent optical system ensures low noise and low stray light
- High-speed MCU, high-precision A/D conversion, and large storage capacity
- Large LCD display (320 × 240 dots)
- High-quality grating, detector, and lamps
- Data and curves can be stored in real time
- Automatic wavelength setting and blanking
- Lamps can be turned on/off individually
- Easy replacement of pre-aligned lamps
- Reinforced baseplate and bracket ensure durability

UV50D
Double-Beam UV-Vis Spectrophotometer



Functions

Photometric
T%, Abs

Quantitative
Standard Curve

WL Scan
(Spectrum Scan)

Time Scan
(Kinetics)

DNA/Protein Test

Multi-WL Test

Specifications

Model	UV50D
Wavelength Range	190–1100 nm
Spectral Bandwidth	1.8 nm
Optical System	Double-Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Accuracy	±0.5 nm
Wavelength Repeatability	⩽0.2 nm
Wavelength Setting	Automatic, 0.1 nm resolution
Photometric Range	0–200%T, -0.3–3 A, 0–9999 C
Photometric Accuracy	±0.002 A (0–0.5 A), ±0.004 A (0.5–1 A), ±0.3%T (0–100%T)
Photometric Repeatability	⩽0.001 A (0–0.5 A), ⩽0.002 A (0.5–1 A), ⩽0.1%T (0–100%T)
Stray Light	⩽0.05%T (220/360 nm)
Scan Speed	High, Medium, Low; Max. 3000 nm/min
Baseline Flatness	±0.001 A
Stability	±0.001 A/h (500 nm, 0 A)
Noise	⩽0.2%T/3 min (250/500 nm, 0%T); ⩽0.4%T/3 min (250/500 nm, 100%T)
Sample Compartment	Accommodates 5–100 mm path length cuvettes
Detector	Silicon Photodiode
Lamps	Tungsten lamp & deuterium lamp (pre-aligned)
Display	Graphic LCD (320 × 240 dots)
Keypad	30-key Alphanumeric Membrane Keypad
Output Ports	USB Port & Parallel Port
Printer	Mini Printer (Optional); PC Printer (Optional)
PC Software	PC Software (Optional)
Power Requirements	AC 90–250 V, 50/60 Hz
Dimensions	460 × 360 × 210 mm
Weight	18 kg

UV70/UV70S
Split-Beam UV-Vis Spectrophotometer



Product Overview

The 70 Series spectrophotometers use an advanced split-beam ratio-monitoring optical system. The UV70 features a fixed 1.8 nm bandwidth, while the UV70S offers variable bandwidth settings. They are suitable for biochemical, pharmaceutical, and clinical laboratory applications.

Features

- Split-beam design ensures low drift, low noise, and low stray light
- High-speed MCU, high-precision A/D conversion, and large storage capacity
- Large LCD display (320 × 240 dots)
- Variable bandwidth options meet pharmacopoeial requirements
- Data and curves can be stored in real time
- Online software upgrade capability
- Lamps can be turned on/off individually
- Easy replacement of pre-aligned lamps
- Reinforced baseplate and bracket ensure durability

UV70/UV70S
Split-Beam UV-Vis Spectrophotometer



Functions

Photometric T%, Abs

Quantitative Standard Curve

WL Scan (Spectrum Scan)

Time Scan (Kinetics)

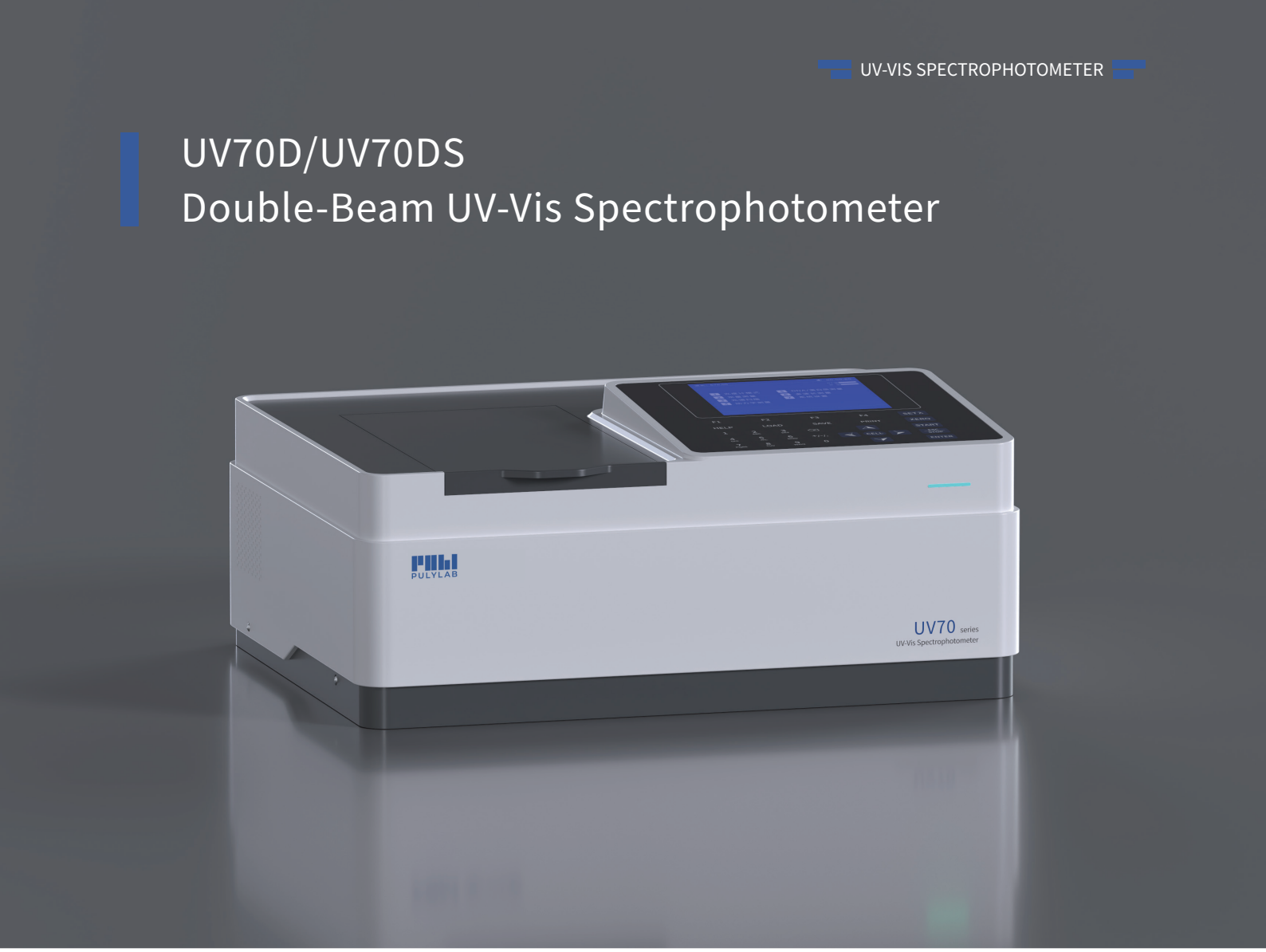
DNA/Protein Test

Multi-WL Test

Specifications

Model	UV70	UV70S
Wavelength Range	190–1100 nm	
Spectral Bandwidth	1.8 nm	0.5/1/1.5/2/4/5 nm
Optical System	Split-Beam Ratio Monitoring, Blazed Holographic Grating (1200 lines/mm)	
Wavelength Accuracy	±0.3 nm	
Wavelength Repeatability	⩽0.2 nm	
Wavelength Setting	Automatic, 0.1 nm resolution	
Photometric Range	0–200%T, -0.3–3 A, 0–9999 C	
Photometric Accuracy	±0.002 A (0–0.5 A), ±0.003 A (0.5–1 A), ±0.3%T (0–100%T)	
Photometric Repeatability	⩽0.001 A (0–0.5 A), ⩽0.002 A (0.5–1 A), ⩽0.1%T (0–100%T)	
Stray Light	⩽0.05%T (220/360 nm)	
Scan Speed	High, Medium, Low; Max. 3000 nm/min	
Baseline Flatness	±0.002 A	
Stability	±0.001 A/h (500 nm, 0 A)	
Noise	⩽0.2%T/3 min (250/500 nm, 0%T); ⩽0.4%T/3 min (250/500 nm, 100%T)	
Sample Compartment	Accommodates 5–100 mm path length cuvettes	
Detector	Silicon Photodiode	
Lamps	Tungsten lamp & deuterium lamp (pre-aligned)	
Display	Graphic LCD (320 × 240 dots)	
Keypad	30-key Alphanumeric Membrane Keypad	
Output Ports	USB Port & Parallel Port	
Printer	Mini Printer (Optional); PC Printer (Optional)	
PC Software	PC Software (Optional)	
Power Requirements	AC 90–250 V, 50/60 Hz	
Dimensions	630 × 510 × 260 mm	
Weight	26 kg	28 kg

UV70D/UV70DS
Double-Beam UV-Vis Spectrophotometer



Product Overview

The 70D Series spectrophotometers use an advanced double-beam optical system. The double-beam optical design minimizes drift, making it suitable for long-term measurements. The UV70D features a fixed 1.8 nm bandwidth, while the UV70DS offers variable bandwidth settings. They are suitable for research, biochemical, and pharmaceutical laboratory applications.

Features

- Double-beam design ensures low drift, low noise, and low stray light
- High-speed MCU, high-precision A/D conversion, and large storage capacity
- Large LCD display (320 × 240 dots)
- Variable bandwidth options meet pharmacopoeial requirements
- Data and curves can be stored in real time
- Online software upgrade capability
- Lamps can be turned on/off individually
- Easy replacement of pre-aligned lamps
- Reinforced baseplate and bracket ensure durability

UV70D/UV70DS
Double-Beam UV-Vis Spectrophotometer



Functions

Photometric
T%, Abs

Quantitative
Standard Curve

WL Scan
(Spectrum Scan)

Time Scan
(Kinetics)

DNA/Protein Test

Multi-WL Test

Specifications

Model	UV70D	UV70DS
Wavelength Range	190–1100 nm	
Spectral Bandwidth	1.8 nm	0.5/1/1.5/2/4/5 nm
Optical System	Double-Beam, Blazed Holographic Grating (1200 lines/mm)	
Wavelength Accuracy	±0.3 nm	
Wavelength Repeatability	⩽0.1 nm	
Wavelength Setting	Automatic, 0.1 nm resolution	
Photometric Range	0–200%T, -0.3–3 A, 0–9999 C	
Photometric Accuracy	±0.002 A (0–0.5 A), ±0.003 A (0.5–1 A), ±0.3%T (0–100%T)	
Photometric Repeatability	⩽0.001 A (0–0.5 A), ⩽0.002 A (0.5–1 A), ⩽0.1%T (0–100%T)	
Stray Light	⩽0.05%T (220/360 nm)	
Scan Speed	High, Medium, Low; Max. 3000 nm/min	
Baseline Flatness	±0.001 A	
Stability	±0.001 A/h (500 nm, 0 A)	
Noise	⩽0.2%T/3 min (250/500 nm, 0%T); ⩽0.3%T/3 min (250/500 nm, 100%T)	
Sample Compartment	Accommodates 5–100 mm path length cuvettes	
Detector	Silicon Photodiode	
Lamps	Tungsten lamp & deuterium lamp (pre-aligned)	
Display	Graphic LCD (320 × 240 dots)	
Keypad	30-key Alphanumeric Membrane Keypad	
Output Ports	USB Port & Parallel Port	
Printer	Mini Printer (Optional); PC Printer (Optional)	
PC Software	PC Software (Optional)	
Power Requirements	AC 90–250 V, 50/60 Hz	
Dimensions	630 × 510 × 260 mm	
Weight	26 kg	28 kg

Service & Support

Reliable and Efficient Support

Extensive Service Network

With advanced R&D, a comprehensive product portfolio, timely delivery, and reliable after-sales support, Puly Instruments provides professional and responsive service to customers worldwide.
With an open and collaborative approach, we continue to strengthen our service network and deliver efficient, dependable support across diverse markets.

Installation & Commissioning

User Training

Maintenance & Support

System Upgrades

Markets We Serve



Universities



Research Institutes



Agriculture



Biotechnology



Healthcare



Pharmaceuticals



Petrochemicals



Semiconductors



Environmental Monitoring

Puly Instruments shall not be liable for any errors contained herein or for any incidental or consequential damages arising from the furnishing, performance, or use of this material.

The information, descriptions, and technical specifications in this document are subject to change without notice.

Edition: August 2026

Shanghai Puly Instruments Co., Ltd.

5F, Building U33, Liandong U Valley,
No. 5355 Beisong Highway, Songjiang District, Shanghai, China

Website: www.pulylab.com **Tel:** +86-21-57670080 **E-mail:** info@pulylab.com