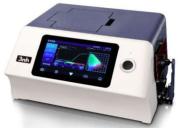


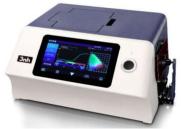
YS6060 Benchtop Spectrophotometer is a model of high-end precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	YS6060 Benchtop Spectrophotometer
Optical Geometry	Reflection: D/8° Transmission: D/0°
,	Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Reflection: Ø30mm/Ø25.4mm, Ø18mm/Ø15mm, Ø10mm/Ø8mm, Ø6mm/Ø4mm. Transmission: Ø30mm/Ø25.4mm. Note: Instrument can automatically identify the aperture after switched.
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, Munsell, s-RGB, HunterLab, β xy, DIN Lab99
Color Difference Formula	ΔΕ*ab, ΔΕ*uv, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*00, DIN ΔΕ99, ΔΕ(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Haze, Transmittance Rate, Staining Fastness, Color Fastness, Color Strength, Opacity, Gardner Index, Pt-Co Index, 555 Index, 8-degree Glossiness
Data Disp l ayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Simulation, Color Offset/Deviation Direction
Repeatability	Reflection: ΔE*ab≤0.01 Transmission: ΔE*ab≤0.02
Inter-instrument Error	ΔE*ab≤0.12
SCI/SCE	SCI+SCE (SPIN+SPEX)
Viewing Ang l e	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30)
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Integrating Sphere Size	Ø154mm
Wavelength Range	360nm ~ 780nm. Cut None, 400nm Cut-off, 420nm Cut-off.
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	2.4s (About 5s for both SCI and SCE)
Data Storage Capacity	Standards: 5000pcs, Samples: 40000pcs. (One piece of data includes both SCI and SCE)
Data Transferring Port	USB & Bluetooth 4.0 & Printing Serial Port
PC Terminal Software	SQCX (For free)
Display Screen	7 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Power Supp l y	DC 24V, 3A Power Adapter
Working Environment	Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Black Plate, Sample Holder, Ø4mm, Ø8mm, Ø15mm, Ø25.4mm Aperture, Power Adapter, USB Cable, Cuvette, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer
Weight & Dimension	9.6kg, 370*300*200mm



YS6010 Benchtop Spectrophotometer is a model of high-end precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	YS6010 Benchtop Spectrophotometer
Optical Geometry	Reflection: D/8° Transmission: D/0° Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Reflection: Ø30mm/Ø25.4mm, Ø10mm/Ø8mm, Ø6mm/Ø4mm. Transmission: Ø30mm/Ø25.4mm. Note: Instrument can automatically identify the aperture after switched.
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, Munsell, s-RGB, HunterLab, β xy, DIN Lab99
Color Difference Formula	ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*00, DIN ΔE99, ΔE(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Haze, Transmittance Rate, Staining Fastness, Color Fastness, Color Strength, Opacity, Gardner Index, Pt-Co Index, 555 Index, 8-degree Glossiness
Data Displayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Simulation, Color Offset/Deviation Direction
Repeatability	Reflection: ΔE*ab≤0.02 Transmission: ΔE*ab≤0.03
Inter-instrument Error	ΔE*ab≤0.15
SCI/SCE	SCI+SCE (SPIN+SPEX)
Viewing Angle	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30)
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Integrating Sphere Size	Ø154mm
Wavelength Range	360nm ~ 780nm. Cut None, 400nm Cut-off.
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	2.4s (About 5s for both SCI and SCE)
Data Storage Capacity	Standards: 2000pcs, Samples: 20000pcs. (One piece of data includes both SCI and SCE)
Data Transferring Port	USB & Printing Serial Port
PC Terminal Software	SQCX (For free)
Display Screen	7 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Power Supp l y	DC 24V, 3A Power Adapter
Working Environment	Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation)
Storage Environment	Temperature: -20° C $\sim 50^{\circ}$ C; Humidity: $0 \sim 85\%$ (No Condensation)
Standard Accessory	White and Black Calibration Board, Black Plate, Sample Holder, Ø4mm, Ø8mm, Ø25.4mm Aperture, Power Adapter, USB Cable, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer, Cuvette
Weight & Dimension	9.6kg, 370*300*200mm



YS6002 Benchtop Color Haze Meter is a model of high-end precise instrument for measuring and analyzing the Haze, Transmittance and Chromaticity parameters of those transmissive materials, which can be widely applied in many kinds of industries, such as Glass and Plastics, Films and Display Screen, Liquid Pharmaceuticals and Cosmetics, etc.

Technical Parameters	YS6002 Benchtop Color Haze Meter
Optical Geometry	Transmission: D/0° (Similar to the 0°/0° Specified in CIE 15) Conform to Standards ASTM D1003/1044, CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ASTM E308, DIN 5033, Teil 7.
Measuring Aperture	Transmission: Ø30mm/Ø25.4mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, Munsell, s-RGB, HunterLab, β xy, DIN Lab99
Color Difference Formula	Δ E*ab, Δ E*uv, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*00, DIN Δ E99, Δ E(Hunter)
Other Chromaticity Index	Haze (ASTM D1003/1044), Transmittance T, WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Gardner Index, Pt-Co Index, Opacity
Data Disp l ayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Simulation, Color Offset/Deviation Direction
Repeatability	Transmission: ΔE*ab≤0.03
Inter-instrument Error	ΔE*ab≤0 . 15
Viewing Angle	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, D50, A, C, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30).
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Integrating Sphere Size	Ø154mm
Wavelength Range	360nm ~ 780nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Measurement Time	1.5s
Data Storage Capacity	Standards: 5000pcs, Samples: 20000pcs.
Data Transferring Port	USB & Printing Serial Port
PC Terminal Software	SQCX (For free)
Display Screen	7 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Power Supp l y	DC 24V, 3A Power Adapter
Working Environment	Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Black Plate, Sample Holder, Cuvette, Power Adapter, USB Cable, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer
Weight & Dimension	9.6kg, 370*300*200mm



YS3060 Portable Spectrophotometer is a model of high-end precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Tarketical Parameter	VS2060 Paytable Speetranhotemater
Technical Parameters	YS3060 Portable Spectrophotometer
Optical Geometry	D/8° Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Two Apertures, MAV: Ø10mm/Ø8mm & SAV: Ø6mm/Ø4mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab.
Color Difference Formula	ΔΕ*ab, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(l :c), ΔΕ*00, ΔΕ(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity, 8-degree Glossiness
Data Displayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0.03
Inter-instrument Error	ΔE*ab≤0.15
SCI/SCE	SCI+SCE (SPIN+SPEX)
Viewing Ang l e	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, D50, A, C, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30), UV.
UV Light Source	Yes. Include UV & Exclude UV.
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Integrating Sphere Size	Ø48mm
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	1s (About 2.6s for both SCI and SCE)
Data Storage Capacity	Standards: 1000pcs, Samples: 28000pcs. (One piece of data includes both SCI and SCE)
Data Transferring Port	USB & Bluetooth 4.0
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Ø4mm, Ø8mm Aperture, Power Adapter, USB Cable, Bluetooth Adapter, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box.
Weight & Dimension	600g, 184*77*105mm



YS3020 Portable Spectrophotometer is a model of precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	YS3020 Portable Spectrophotometer (Optional Measuring Aperture)
	D/8°
Optical Geometry	Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Choose one aperture from: Ø8mm / Ø4mm / Ø1×3mm.
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab.
Color Difference Formula	Δ E*ab, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*cmc(l :c), Δ E*00, Δ E(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity
Data Displayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0 . 04
Inter-instrument Error	MAV/SCI: ΔE*ab≤0.2
SCI/SCE	SCI+SCE (SPIN+SPEX)
Viewing Angle	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, D50, A, C, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30).
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Integrating Sphere Size	Ø48mm
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	1s (About 2.6s for both SCI and SCE)
Data Storage Capacity	Standards: 1000pcs, Samples: 20000pcs. (One piece of data includes both SCI and SCE)
Data Transferring Port	USB & Bluetooth 4.0
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Optional Aperture, Power Adapter, USB Cable, Bluetooth Adapter, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer, Powder Test Box.
Weight & Dimension	600g, 184*77*105mm



YS3010 Portable Spectrophotometer is a model of precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaing and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	YS3010 Portable Spectrophotometer
recimical rarameters	D/8°
Optical Geometry	Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Single Aperture: Ø10mm/Ø8mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab.
Color Difference Formula	Δ E*ab, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*cmc(I:c), Δ E*00, Δ E(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity
Data Disp l ayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0.05
Inter-instrument Error	MAV/SCI: ΔE*ab≤0.4
SCI/SCE	SCI+SCE (SPIN+SPEX)
Viewing Ang l e	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, D50, A, C, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30).
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Integrating Sphere Size	Ø48mm
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	1s (About 2.6s for both SCI and SCE)
Data Storage Capacity	Standards: 1000pcs, Samples: 20000pcs. (One piece of data includes both SCI and SCE)
Data Transferring Port	USB
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Optional Aperture, Power Adapter, USB Cable, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box.
Weight & Dimension	600g, 184*77*105mm



YS4580 Portable Spectrophotometer with the Ø20mm aperture, this is a precise instrument specially designed for the color measurement and analysis of traffic road signs, which can also be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Porcelain and Ceramics, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	YS4580 Portable Spectrophotometer
Optical Geometry	45°/0° Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Ø20mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLab, βxy.
Color Difference Formula	ΔΕ*ab, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(l :c), ΔΕ*00, ΔΕ(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity, Rectangle Chromaticity Tolerance.
Data Disp l ayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0.04
Inter-instrument Error	ΔE*ab≤0,2
Viewing Ang l e	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30), UV.
UV Light Source	Yes. Include UV & Exclude UV.
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	1.5s
Data Storage Capacity	Standards: 1000pcs, Samples: 30000pcs.
Data Transferring Port	USB & Bluetooth 4.0
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Ø20mm Aperture, Power Adapter, USB Cable, Bluetooth Adapter, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box, Locating Plate.
Weight & Dimension	600g, 184*77*105mm



YS4560 Portable Spectrophotometer is a model of high-end precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Porcelain and Ceramics, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	YS4560 Portable Spectrophotometer
Optical Geometry	45°/0° Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Two Apertures. MAV: Ø10mm/Ø8mm & SAV: Ø5mm/Ø4mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLab, βxy
Color Difference Formula	ΔΕ*ab, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(I:c), ΔΕ*00, ΔΕ(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity, Rectangle Chromaticity Tolerance.
Data Disp l ayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0.03
Inter-instrument Error	ΔE*ab≤0 . 15
Viewing Angle	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30), UV.
UV Light Source	Yes. Include UV & Exclude UV.
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Ref l ectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	1.5s
Data Storage Capacity	Standards: 1000pcs, Samples: 30000pcs.
Data Transferring Port	USB & Bluetooth 4.0
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20° C $\sim 50^{\circ}$ C; Humidity: $0 \sim 85\%$ (No Condensation)
Standard Accessory	White and Black Calibration Board, Ø4mm, Ø8mm Aperture, Power Adapter, USB Cable, Bluetooth Adapter, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box, Locating Plate.
Weight & Dimension	600g, 184*77*105mm



YS4510 Portable Spectrophotometer is a precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Porcelain and Ceramics, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	YS4510 Portable Spectrophotometer
Optical Geometry	45°/0° Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724/1, ASTM E1146, DIN 5033, Teil 7.
Measuring Aperture	Choose One Aperture from: MAV: Ø10mm/Ø8mm, SAV: Ø5mm/Ø4mm, SSAV: Ø3mm/Ø2mm.
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLab, βxy.
Color Difference Formula	ΔΕ*ab, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(l :c), ΔΕ*00, ΔΕ(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity.
Data Disp l ayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0.05
Inter-instrument Error	ΔE*ab≤0.2
Viewing Angle	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30).
UV Light Source	Non
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Location Method	Camera Location
Measurement Time	1.5s
Data Storage Capacity	Standards: 500pcs, Samples: 20000pcs.
Data Transferring Port	USB
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Ø4mm, Ø8mm Aperture, Power Adapter, USB Cable, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box, Locating Plate.
Weight & Dimension	600g, 184*77*105mm



YD5050 Spectro-densitometer is a model of high-end precise instrument for measuring densitry and color in printing industry, which usually will be applied in industries like Printing, Packaging and Ink, Paper, etc.

Technical Parameters	YD5050 Spectro-densitometer
Optical Geometry	45°/0° Conform to Standards ISO 5-4, CIE No.15
Measuring Aperture	Customise One Aperture from: Ø2mm, Ø4mm, Ø8mm.
Measurement Condition	Conform to the measurement conditions of Standard ISO 13655. M0 (CIE Light Source A), M1 (CIE Light Source D50), M2 (Exclude UV), M3 (M2+Polarization Filter).
Density Standard	ISO Status T, E, A, I.
Densitry Index	Density Value, Density Difference, Dot Area, Dot Gain, Overprint, Printing Characteristics, Printing Contrast, Color Difference, Greyscale.
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLab.
Color Difference Formula	Δ E*ab, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*uv, Δ E*00, Δ E(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), MI (Metamerism Index), Opacity.
Color Data Displayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	For Color: ΔE*ab≤0.03 For Density: Within 0.01D
Inter-instrument Error	For Color: ΔE*ab≤0.18
Viewing Angle	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30), UV.
UV Light Source	Yes. Indude UV & Exclude UV.
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Ref l ectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Measurement Time	1,5s
Data Storage Capacity	20000 pcs of Data,
Data Transferring Port	USB & Bluetooth 4.0
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Customised Aperture, Power Adapter, USB Cable, Bluetooth Adapter, Polarization Filter, Locating Plate, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer
Weight & Dimension	600g, 184*77*105mm



YD5010 Spectro-densitometer is a model of precise instrument for measuring densitry and color in printing industry, which usually will be applied in industries like Printing, Packaging and Ink, Paper, etc.

Technical Parameters	YD5010 Spectro-densitometer
Optical Geometry	45°/0° Conform to Standards ISO 5-4, CIE No.15
Measuring Aperture	Customise One Aperture from: Ø2mm, Ø4mm, Ø8mm.
Measurement Condition	Conform to the measurement conditions of Standard ISO 13655. M0 (CIE Light Source A), M1 (CIE Light Source D50), M2 (Exclude UV), M3 (M2+Polarization Filter).
Density Standard	ISO Status T, E, A, I.
Densitry Index	Density Value, Density Difference, Dot Area, Dot Gain, Overprint, Printing Characteristics, Printing Contrast, Color Difference, Greyscale.
Color Space	CIE LAB, XYZ, Yxy, LCh.
Color Difference Formula	ΔE*ab, ΔE*94, ΔE*00
Other Chromaticity Index	Non
Color Data Displayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	For Color: ΔE*ab≤0.04 For Density: Within 0.01D
Inter-instrument Error	For Color: ΔE*ab≤0.2
Viewing Ang l e	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F2(CWF), F7(DLF), F11(TL84), F12(TL83/U30), UV.
UV Light Source	Yes, Include UV & Exclude UV.
Lamps Life-span	5 Years, more than 3 Million times of measurements.
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Ref l ectance Range	0 ~ 200%
Sensor	256 Image Element Double Array CMOS Image Sensor
Spectroscope	Concave Grating
Measurement Time	1.5s
Data Storage Capacity	10000 pcs of Data.
Data Transferring Port	USB
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Battery	Built-in Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Customised Aperture, Power Adapter, USB Cable, Bluetooth Adapter, Polarization Filter, Locating Plate, PC SQCX, User Manual.
Optional Accessory	Mini Thermal Printer
Weight & Dimension	600g, 184*77*105mm



NS810 Portable Spectrophotometer is an instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Porcelain and Ceramics, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Optical Geometry Optical Geometry Optical Geometry Onform to Standards CIE No.15, GB/T 3978, Measuring Aperture Single Aperture: 010mm/09mm Color Space CEL LAB, XYZ, Yxy, LDI, CIE LUV. Color Difference Formula AE*ab, AE*94, AE*Gmc(2:1), AE*cmc(1:1), A		
Upload Geometry Conform to Standards CEE No.15, GB/T 3978, Measuring Aperture Single Aperture: 010mm/08mm Color Space CIE LAB, XYZ, Ywy, LCh, CIE LUV. Color Difference Formula ΔE*ab, ΔE*94, ΔE*amc(2:1), ΔE*cmc(1:1), ΔE*cm	Technical Parameters	NS810 Portable Spectrophotometer
Color Space CE LAB, XYZ, Yxy, LCh, CIE LUV. Color Difference Formula ΔΕ*θb, ΔΕ*94, ΔΕ*σκι(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(1:	Optical Geometry	
AE*ab, AE*94, AE*cmc(2:1), AE*cmc(1:1), AE*cmc(1:0, AE*00, AE*uv. WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D192S, ASTM 313), T (ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314), T (ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314), T (ASTM E314, CIE/ISO, ASTM E314), T (ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314), T (ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314), T (ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314), T (ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314, T (ASTM E314, CIE/ISO, ASTM E314, CIE/ISO, ASTM E314, T (ASTM E314, CIE/ISO, A	Measuring Aperture	Single Aperture: Ø10mm/Ø8mm
Other Chromaticity Index MI (ASTM E313, CIE/ISO), MI (Metamerism Index), Standards; Color Strength, Opacity, Data Displayed	Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV.
Other Chromaticity Index TI (ASTM E313, CIE/ISO), MI (Netamerian Index), Staining Fastheses, Color Startely, Apacity. Data Displayed Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fall Result, Color Offset/Deviation Direction Repeatability ΔΕ*ab≤0.04 Inter-instrument Error ΔΕ*ab≤0.2 SCI/SCE SCI Viewing Angle 2° & 10° Illiuminating Lamps Combined LED Lamps Illiuminant Types D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30). UV Light Source Non Lamps Life-span 5 Years, more than 1.6 Million times of measurements. Integrating Sphere Size Ø58mm Wavelength Range 400nm ~ 700nm Wavelength Pitch 10nm Senis band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen <t< td=""><td>Color Difference Formula</td><td>ΔΕ*ab, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(l:c), ΔΕ*00, ΔΕ*uv.</td></t<>	Color Difference Formula	ΔΕ*ab, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(l:c), ΔΕ*00, ΔΕ*uv.
Repeatability	Other Chromaticity Index	TI (ASTM E313, CIE/ISO), MI (Metamerism Index),
Inter-instrument Error AE*abs0,2 SCI SCI Viewing Angle 2º & 10º Combined LED Lamps Combined LED Lamps D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30). UV Light Source Non Lamps Life-span 5 Years, more than 1.6 Million times of measurements. Integrating Sphere Size Ø58mm Wavelength Range 400nm ~ 700nm Wavelength Range 400nm ~ 700nm Wavelength Ritch 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs, Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3,5 inches TFT Capacitance Screen-touch Display Language Bullt-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Vorking Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Data Displayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
SCI/SCE SCI Viewing Angle 2° & 10° Illuminating Lamps Combined LED Lamps D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30). UV Light Source Non Lamps Life-span 5 Years, more than 1.6 Million times of measurements. O58mm Wavelength Range 400nm ~ 700nm Wavelength Pitch 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs, Data Transferring Port U5B PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Bult-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Storage Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Repeatability	ΔE*ab≤0.04
Viewing Angle 2° & 10° Combined LED Lamps Combined LED Lamps D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30). UV Light Source Non Lamps Life-span 5 Years, more than 1.6 Million times of measurements. Integrating Sphere Size Ø58mm Wavelength Range 400nm ~ 700nm Wavelength Rtch 10nm Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Bullt-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Inter-instrument Error	ΔE*ab≤0.2
Illuminating Lamps Combined LED Lamps D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30). UV Light Source Non Lamps Life-span 5 Years, more than 1.6 Million times of measurements. Integrating Sphere Size Ø58mm Wavelength Range 400nm ~ 700nm Wavelength Pitch 10nm Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 20 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	SCI/SCE	SCI
Illuminant Types D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30). UV Light Source Non Lamps Life-span 5 Years, more than 1.6 Million times of measurements. Integrating Sphere Size Ø58mm Wavelength Range 400nm ~ 700nm Wavelength Pitch 10nm Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software \$QC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory Milet and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Milet and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Milet and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Milet and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual.	Viewing Ang l e	2° & 10°
UV Light Source Non Lamps Life-span 5 Years, more than 1.6 Million times of measurements. Integrating Sphere Size Ø58mm Wavelength Range 400nm ~ 700nm Wavelength Pitch 10nm Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) 3.5 inches TFT Capacitance Screen-touch Display Language Bullt-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Illuminating Lamps	Combined LED Lamps
Lamps Life-span 5 Years, more than 1.6 Million times of measurements. Integrating Sphere Size 058mm Wavelength Range 400nm ~ 700nm Wavelength Pitch 10nm Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Bullt-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30).
Integrating Sphere Size ### A00nm ~ 700nm ### Wavelength Range ### A00nm ~ 700nm ### A00nm ~ 70nm ### A00nm ### A00nm ~ 70nm ### A00nm ~ 70nm ### A00nm ~ 70nm ### A00nm ### A00nm ~ 70nm ### A00nm ~ 70nm ### A00nm ~ 70nm ### A00nm ### A00nm ~ 70nm ### A00nm ~ 70nm ### A00nm ~ 70nm ### A	UV Light Source	Non
Wavelength Range 400nm ~ 700nm Wavelength Pitch 10nm Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Bullt-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: -2 or ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Lamps Life-span	5 Years, more than 1.6 Million times of measurements.
Wavelength Pitch Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Integrating Sphere Size	Ø58mm
Semi band Width 10nm Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Wavelength Range	400nm ~ 700nm
Reflectance Range 0 ~ 200% Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs. Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Wavelength Pitch	10nm
Sensor Silicon Photoelectric Diode Array Measurement Time 1.5s Data Storage Capacity Standards: 1000pcs, Samples: 15000pcs, Data Transferring Port USB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Mini Thermal Printer, Universal Test Component, Powder Test Box.	Semi band Width	10nm
Measurement Time 1.5s Data Storage Capacity Data Transferring Port DISB PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Mini Thermal Printer, Universal Test Component, Powder Test Box.	Reflectance Range	0 ~ 200%
Data Storage Capacity Data Transferring Port USB PC Terminal Software Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Sensor	Silicon Photoelectric Diode Array
Data Transferring Port PC Terminal Software SQC8 (For free) Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Measurement Time	1.5s
PC Terminal Software SQC8 (For free) 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Data Storage Capacity	Standards: 1000pcs, Samples: 15000pcs.
Display Screen 3.5 inches TFT Capacitance Screen-touch Display Language Built-in English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Data Transferring Port	USB
English, Chinese. Battery Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	PC Terminal Software	SQC8 (For free)
Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours) Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Working Environment Temperature: 0 ~ 40°C; Humidity: 0 ~ 85% (No Condensation) Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Language Bui l t-in	English, Chinese.
Storage Environment Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation) Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Battery	Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Standard Accessory White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual. Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Optional Accessory Mini Thermal Printer, Universal Test Component, Powder Test Box.	Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
	Standard Accessory	White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual.
Weight & Dimension 500g, 90*77*230mm	Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box.
	Weight & Dimension	500g, 90*77*230mm



NS800 Portable Spectrophotometer is an instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Porcelain and Ceramics, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	NS800 Portable Spectrophotometer
Optical Geometry	45°/0° Conform to Standards CIE No.15, GB/T 3978.
Measuring Aperture	Single Aperture: Ø10mm/Ø8mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV.
Color Difference Formula	Δ E*ab, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*cmc(I:c), Δ E*00, Δ E*uv.
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity.
Data Disp l ayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0.04
Inter-instrument Error	ΔE*ab≤0,2
Viewing Ang l e	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30).
UV Light Source	Non
Lamps Life-span	5 Years, more than 1.6 Million times of measurements.
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	Silicon Photoelectric Diode Array
Measurement Time	1.5s
Data Storage Capacity	Standards: 1000pcs, Samples: 15000pcs.
Data Transferring Port	USB
PC Terminal Software	SQC8 (For free)
Display Screen	3,5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese.
Battery	Rechargeable Li-on Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}$ C; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20° C $\sim 50^{\circ}$ C; Humidity: $0 \sim 85\%$ (No Condensation)
Standard Accessory	White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQC8, Protective Cover, Wrist Strap, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box.
Weight & Dimension	500g, 90*77*230mm



NS808 Portable Spectrophotometer, this is a precise instrument specially designed for the color measurement and analysis of traffic road signs, which can also be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, Wood, Tiles, Porcelain and Ceramics, Furniture and Decoration, Food and Pharmaceuticals, Cosmetics, Electronics, etc.

Technical Parameters	NS808 Portable Spectrophotometer
Optical Geometry	45°/0° Conform to Standards CIE No.15, GB/T 3978, GB 2893, GB/T 18833.
Measuring Aperture	Single Aperture: Ø8mm
Co l or Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV.
Color Difference Formula	ΔΕ*ab, ΔΕ*94, ΔΕ*cmc(2:1), ΔΕ*cmc(1:1), ΔΕ*cmc(l:c), ΔΕ*00, ΔΕ(Hunter)
Other Chromaticity Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity, Rectangle Chromaticity Tolerance.
Data Displayed	Spectrogram/Data, Chromaticity Diagram/Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset/Deviation Direction
Repeatability	ΔE*ab≤0.04
Inter-instrument Error	ΔE*ab≤0,2
Viewing Angle	2° & 10°
Illuminating Lamps	Combined LED Lamps
Illuminant Types	D65, A, C, D50, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30).
UV Light Source	Non
Lamps Life-span	5 Years, more than 1.6 Million times of measurements.
Wavelength Range	400nm ~ 700nm
Wavelength Pitch	10nm
Semi band Width	10nm
Reflectance Range	0 ~ 200%
Sensor	Silicon Photoelectric Diode Array
Measurement Time	1.5s
Data Storage Capacity	Standards: 1000pcs, Samples: 15000pcs.
Data Transferring Port	USB
PC Terminal Software	SQCT (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Bui l t-in	English, Chinese.
Battery	Rechargeable Li-ion Battery (Able to do 5000 times of measurements within 8 Hours)
Working Environment	Temperature: $0 \sim 40^{\circ}\text{C}$; Humidity: $0 \sim 85\%$ (No Condensation)
Storage Environment	Temperature: -20°C ~ 50°C; Humidity: 0 ~ 85% (No Condensation)
Standard Accessory	White and Black Calibration Board, Power Adapter, Battery, USB Cable, PC SQCT, Wrist Strap, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box.
Weight & Dimension	500g, 90*77*203mm