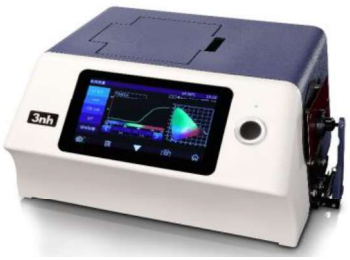
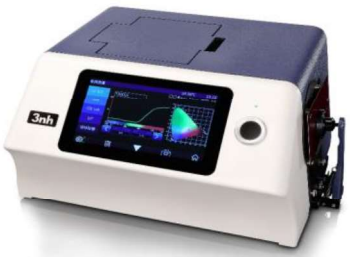


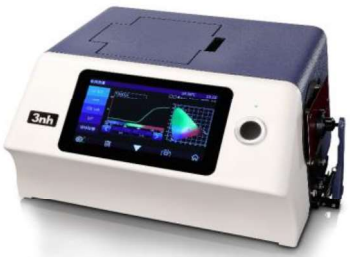
YS6060 Benchtop Spectrophotometer is a model of high-end precise instrument for color measurement, color analysis and color management, which can be widely applied in many kinds of industries, such as Paint and Coating, Plastics and Metals, Printing, Packaging and Ink, Leather, Textile and Garment, Automobiles, 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	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≤0.01 Transmission: ΔE*ab≤0.02
Inter-instrument Error	ΔE*ab≤0.12
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, 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 Built-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Power Supply	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 Built-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Power Supply	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, 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	ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*00, DIN ΔE99, ΔE(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 Displayed	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 Built-in	English, Chinese. (If need German, French, Spanish, Italian or Russia, please specify)
Power Supply	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.

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	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, 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), 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 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), 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 Built-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)
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	Choose one aperture from: Ø8mm / Ø4mm / Ø1×3mm.
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab.
Color Difference Formula	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, 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), 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 Built-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, 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**
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	Single Aperture: Ø10mm/Ø8mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab.
Color Difference Formula	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, 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), 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≤0.05
Inter-instrument Error	MAV/SCI: ΔE*ab≤0.4
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
PC Terminal Software	SQCX (For free)
Display Screen	3.5 inches TFT Capacitance Screen-touch Display
Language Built-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, 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	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, 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), 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.
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 Built-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, 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	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, 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), 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≤0.03
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
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 Built-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, 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	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, 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), 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≤0.05
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 Built-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, 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	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*uv, ΔE*00, ΔE(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. 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
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 Built-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 Angle	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
Reflectance 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 Built-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

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.

Technical Parameters	**NS810 Portable Spectrophotometer**
Optical Geometry	D/8° 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	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, ΔE*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 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
SCI/SCE	SCI
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.
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: 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.
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	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, ΔE*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 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	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.
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
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV.
Color Difference Formula	ΔE*ab, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), ΔE*00, 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), 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 Built-in	English, Chinese.
Battery	Rechargeable Li-ion 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 SQCT, Wrist Strap, User Manual.
Optional Accessory	Mini Thermal Printer, Universal Test Component, Powder Test Box.
Weight & Dimension	500g, 90*77*203mm