

Spectrophotometric Colorimeters PFXi Series, Lovibond®

The PFXi series of spectrophotometric colorimeters features the unique RCMSi technology (Remote Calibration & Maintenance Service via Internet). The user benefits from remote calibration and remote maintenance via Internet, which keeps the time and costs for maintenance and for ensuring compliance with the standards to a minimum. The portfolio of the PFXi series comprises a wide range of colour scales for specific markets, e.g. for mineral oil, food oils, pharmaceutical products, brewery products, and honey. The units can be equipped with additional scales at any time via remote service.

Each PFXi comes with a colour control software for data analysis (incl. LAN and USB cable), cuvettes made of optical glass, a certified glass calibration filter, a spare lamp, and an operating manual.

Note: When handling materials such as greases and waxes whose temperatures must be kept constantly at +10°C above the turbidity point, series PFXi-880, -950 and -995 are particularly advisable. For these, an integrated heating is available as an option.

For compliance testing, glass reference standards and liquid reference standards are available for the major colour scales.



Technical data:	PFXi 195	PFXi 880/950/995
Measuring principle:	9 interference filters	16 interference filters
Spectral response:	420 to 710 nm	
Bandwidth:	10 nm	
Repeatability:	on measurements of de-ionised water	
Chromaticity:	±0.0004	±0.0002
ΔE:	0.04	0.02
Measurement time:	less than 20 seconds	
Light source:	5 Volt, 10 Watt Tungsten Halogen	
Illuminants:	CIE Illuminant, A, B, C, D65	
Observer:	2°, 10°	
Path length:	0.1 to 50 mm	0.1 to 153 mm (.004" to 6")
Interfaces:	USB, LAN, RS232	
Data storage:	100,000+ measurements	
Input voltage:	Universal (90 – 240 Vac), via external power supply	
Compliance:	CE, RoHs, WEEE	
Languages:	en, fr, de, it, pt, ru, es, ja, zh	
Heating:	—	optionally, environment up to 95°C

Type	Application	Standard Colour Scales	Order No.
PFXi-195/1	Liquid chemicals and industrial oils	Pt-Co/Hazen/APHA; Gardner; Iod; CIE values; Spectral data	10 77 11951
PFXi-195/2	Petroleum oils and fuels	Saybolt; ASTM color; Pt-Co/Hazen/APHA; CIE values; Spectral data	10 77 11952
PFXi-195/3	Dark oils and fats	FAC; Gardner; CIE values; Spectral data	10 77 11953
PFXi-195/4	Beers, malts and caramels	EBC (CIE and 430 nm); ASBC (CIE and 430 nm); Series 52 (Brown); CIE values; Spectral data	10 77 11954
PFXi-195/5	Pharmaceutical solutions	European/US-Pharmacopoeia; Pt-Co/Hazen/ APHA; CIE values; Spectral data	10 77 11955
PFXi-195/6	Industrial oils and surfactants	Klett Colour (blue filter KS-42); Pt-Co/Hazen/APHA; Hess-Ives-Colour units; CIE values, Spectral data	10 77 11956
PFXi-195/7	Sugar solutions, syrups and honey	ICUMSA Colour (420, 560, 710 nm); Honey Colour (Pfund Equivalents); Series 52 (Brown); CIE values; Spectral data	10 77 11957
PFXi-195/8	Water and waste waters	ADMI (Spectral & Tristimulus filter methods); Pt-Co/Hazen/APHA; CIE values; Spectral data	10 77 11958
PFXi-195/9	Transparent samples	CIE values (Standard); L*a*b* Colour Space; Hunter Lab Colour Space; Spectral data	10 77 11959
PFXi-880/L	Oils, fats, waxes a. transparent liquids	Lovibond®RYBN; CIE values; Spectral data	10 77 18801
PFXi-880/AT	Oils, fats, waxes a. transparent liquids	AOCs-Tintometer®; CIE values; Spectral data	10 77 18802
PFXi-880/IP17	Petroleum oils and fuels	IP units; Lovibond®RYBN; CIE values; Spectral data	10 77 18804
PFXi-880/P	Mineral oils, waxes and petrochemicals	Saybolt; ASTM color; CIE values; Spectral data	10 77 18803
PFXi-880/S	Sugar solutions, syrups and honey	ICUMSA Colour Index; Lovibond®RYBN; CIE values; Spectral data	10 77 18805
PFXi-880/CIE	Transparent samples (basic unit)	Acid Wash Test; CIE values; Spectral data	10 77 18806
PFXi-950	Oils, chemicals and derivatives	AOCs-Tintometer®; Gardner; Lovibond®RYBN; CIE values, Spectral data	10 77 19501
PFXi-950/P	Mineral oils, waxes and petrochemicals	Saybolt; ASTM Color; Pt-Co/Hazen/APHA; CIE values; Spectral data	10 77 19502
PFXi-995	Oils, chemicals and derivatives	AOCs-Tintometer®; Gardner; Kreis; Hunter Lab; Iodine Colour; Pt-Co/Hazen/APHA; Lovibond®RYBN; Chlorophyll A; FAC; beta-Carotin; CIE values; Spectral data	10 77 19951
PFXi-995/P	Mineral oils, waxes and petrochemicals	Saybolt; IP units; ASTM Color; Pt-Co/Hazen/APHA; CIE values; Lovibond®RYBN; Gardner; Spectral data	10 77 19952