

# Colorimeters

## Electronic Colorimeters, PFXi-195 Series

### Lovibond®

Low cost spectrophotometric colorimeters for consistent, reliable, automatic, electronic measurement of colour for specific dedicated applications involving liquids or transparent solids. Ideal for routine analysis and quality control.

- ◆ Choice of instrument versions with international colour scales:
  - Pt-Co/Hazen/APHA, Gardner, Iodine
  - Saybolt, ASTM colour, Pt-Co/Hazen/APHA
  - FAC, Gardner
  - EBC (CIE and 430nm), ASBC (CIE and 430nm) Series 52 (Brown)
  - Ph. Eu., USP, Pt-Co/Hazen/APHA
  - Klett colour (KS-42 blue filter), Honey colour (Pfund equivalents), Series 52 (Brown)
  - ADMI (spectral and tristimulus filter methods), Pt-Co/Hazen/APHA
  - CIE values (stand selection), L\*C\*h colour space, Hunter lab colour space, Judd rgb
- ◆ 9 built-in interference filters with automatic selection
- ◆ Operator prompting in choice of 9 languages - English, French, German, Spanish, Italian, Portuguese, Russian, Chinese and Japanese
- ◆ RS232, USB and LAN outputs
- ◆ Supplied with Windows™-based control/downloading/analysis software which also enables the generation of spectral and CIE programmes

### CIE Colour Scales

All instruments allow the operator to select measurement of samples to CIE specifications of xy chromaticity co-ordinates, luminance factor, L\*a\*b\* colour space (CIE LAB), Delta E, optical density, % transmission and % absorption.

### Technical Specification

<i>Spectral response</i>	<i>nm</i>	420 to 710
<i>Band width</i>	<i>nm</i>	20
<i>Repeatability (using deionised water):</i>		
<i>Chromaticity (x,y):</i>		±0.0004
<i>E:</i>		0.04
<i>Calibration</i>	Single key press	
<i>Light source</i>	5V, 10W tungsten halogen lamp	
<i>Illuminant</i>	CIE illuminant A, C, D65 (B for PFXi195/4)	
<i>Sample chamber</i>	<i>mm</i>	0.1 to 50 path length cells
<i>Outputs</i>	RS232, USB, LAN	
<i>Data storage</i>	100,000 measurements	
<i>Power requirement</i>	90-240V 50/60Hz single phase supplies	
<i>Overall W x D x H</i>	<i>mm</i>	435 x 195 x 170
<i>Weight</i>	<i>kg</i>	6.8

All colorimeters are supplied with Windows™ control/downloading/analysis software, optical glass cells for the colour scales as indicated, certified glass filter for regular conformance testing, spare lamp and instructions.

#### Colorimeter PFXi-195/1

For liquid chemicals and industrial oils analysis.

Scales: Pt-Co/Hazen/APHA, Gardner, Iodine

Cells supplied: 1 x 10mm, 1 x 50mm path length.

**CS725-15** PFXi-195/1

#### Colorimeter PFXi-195/2

For liquid chemicals and industrial oils analysis.

Scales: Saybolt, ASTM colour, Pt-Co/Hazen/APHA

Cells supplied: 1 x 33mm, 1 x 50mm path length.

**CS725-25** PFXi-195/2

#### Colorimeter PFXi-195/3

For liquid chemicals and industrial oils analysis.

Scales: FAC, Gardner

Cells supplied: 1 x 10mm path length.

**CS725-35** PFXi-195/3

#### Colorimeter PFXi-195/4

For liquid chemicals and industrial oils analysis.

Scales: EBC (CIE and 430nm), ASBC (CIE and 430nm), Series 52 (Brown)

Cells supplied: 1 x 10mm, 1 x 25mm path length.

**CS725-45** PFXi-195/4

#### Colorimeter PFXi-195/5

For liquid chemicals and industrial oils analysis.

Scales: Ph. Eu, USP, Pt-Co/Hazen/APHA

Cells supplied: 1 x 40mm, 1 x 50mm path length.

**CS725-55** PFXi-195/5

#### Colorimeter PFXi-195/6

For industrial oils and surfactants analysis.

Scales: Klett colour (KS-42 blue filter), Pt-Co/Hazen/APHA, Hess-Ives colour units

Cells supplied: 1 x 10mm, 1 x 50mm path length.

**CS725-65** PFXi-195/6

#### Colorimeter PFXi-195/7

For sugar solutions, syrups and honey.

Scales: ICUMSA (420, 560, 710nm), Honey colour (Pfund equivalents), Series 52 (Brown)

Cells supplied: 1 x 10mm path length.

**CS725-75** PFXi-195/7

#### Colorimeter PFXi-195/8

For water and waste water analysis.

Scales: ADMI (spectral and tristimulus filter methods), Pt-Co/Hazen/APHA

Cells supplied: 1x 10mm, 1 x 50mm path length.

**CS725-85** PFXi-195/8

#### Colorimeter PFXi-195/9

For transparent liquids.

Scales: CIE values (standard selection), L\*C\*h colour space, Hunter lab colour space, Judd rgb.

Cells supplied: 1 x 10mm path length.

**CS725-95** PFXi-195/9



**CS725**

#### Spare cells. Optical glass, W600

	<i>Path length mm</i>
<b>CS780-14</b>	10
<b>CS780-18</b>	20
<b>CS780-20</b>	25
<b>CS780-24</b>	33
<b>CS780-26</b>	40
<b>CS780-32</b>	50