

# ESTEEM INDUSTRIES INC.

## PHOTO COLORIMETER

### ESTP-112 ESTEEM PHOTO COLORIMETER



ESTEEM Photo Colorimeter Mode BHI-LSR-437 is a compact and easy to operate instrument for Photo Colorimetric analysis of a solution of any concentration. The output is available on 16x2 Line LCD display in terms of % Transmission (%T), Absorbance (Abs), Concentration (Conc) and K Factor. This instrument has 100-sample storage memory and printer output facility for printing data with any dot matrix printer. The use of Microcontroller has made it extremely versatile and accurate instrument. 10mm path length matched test tubes are used for sample and blank. Facility has been provided to store the last K Factor and the standard concentration value. User can also enter any known 'Factor' for a test, thereby eliminating the need to re-run standard again & again. The use of high class standard wide range glass filters covering 400 to 700 nm give extremely good results. The filter setting is controlled by a rotating disc having 8 filter. An automatic shutter is provided to stop the light reaching the photocell, when test tube is not inserted in the tube holder. This increases the life of photocell tremendously.

### **SPECIAL FEATURE**

- Highly Accurate & Stable
- Range 400 to 700 nm
- 16 x 2 Line Alphanumeric LCD Display
- Printer Attachment Facility
- Storage For 100 Samples
- Soft Touch Membrane Keys

### **SPECIFICATION**

- Wave Length Range:400 to 700 nm
- Resolution: 1% T, 0.01 Abs., 0.01 Conc., 0.01 K Factor
- % Transmission: 0-100% T
- Absorbance: 0-1.99 A
- Concetration: 0-19999
- K Factor: 1-19999
- Photo Detector: Silicon Photodiode/ Photo Cell
- Display: 16 x 2 line alphanumeric LCD display with backlit for % T, Abs., Conc., K Factor
- Keyboard: 8 Keys,soft touch membrane type
- Data storage: Upto 100 samples
- Light Source: 6.8V, 0.3 Amp. Tungsten Lamp
- Sample system: 10 mm path length ;matched glass test tubes
- Filters: 400, 420, 480, 500, 540, 620, 680nm
- Printer Interface: Centronics Parallel Printer interface for any dot matrix printer
- Rs 232c Interface: Available (on request)
- Dimensions: 242 x 254 x 90 mm (L x B x H)

- Weight: 2.5 Kg. (Approx).
- Power Supply: 230 V AC  $\pm$  10% 50 Hz. with in-built stabilizer
- Accessories: Matched Test Tube Set of 5, Operation Manual, Dust Cover, Spare Lamp
- Product Range: Microprocessor Flame Photometer, Digital Flame Photometer, Microprocessor conductivity/TDS Meter, Microprocessor Photo Colorimeter, Microprocessor KF Titrimer, Microprocessor DO Meter, Microprocessor pH Meter, Microprocessor Water & Soil Analysis Kit, Digital Clinical Flame Photometer (Dual Channel)



### SALIENT FEATURES

- 1 ml. Solution measurements
- Standard Glass Filters
- Highly Stable & Accurate

Model	EST-PCD 12 Digital Model	EST-PCD 13 Digital Model	EST-PCA21 Analog Model	EST-PCA22 Analog Model
<b>Std. Glass Filter</b>	8	5	8	5
<b>Mini Volume</b>	1 ml.	1 ml.	1 ml.	1 ml.
<b>Display</b>	2 1/2 Digit LED	2 1/2 Digit LED	125 x 100 mm Ammeter	125 x 100 mm Ammeter
<b>Range</b>	400-700 nm	400-700 nm	400-700 nm	400-700 nm
<b>Output</b>	OD (0 to 1.99)	OD (0 to 1.99)	OD (0 to 1.99) %T (0 to 100)	OD (0 to 1.99) %T (0 to 100)

<b>Resolution</b>	OD : 0.01	OD : 0.01	OD : 0.01 %T-1%	OD : 0.01 %T-1%
<b>Accuracy</b>	0.5% FSI	0.5% FSI	0.5% FSI	0.5% FSI
<b>Detector</b>	Selenium Photocell	Selenium Photocell	Selenium Photocell	Selenium Photocell
<b>Light Source</b>	6.8v, 300mA	6.8v, 300mA	6.8v, 300mA	6.8v, 300mA
<b>Power</b>	230v $\pm$ 10%	230v $\pm$ 10%	230v $\pm$ 10%	230v $\pm$ 10%
<b>Accessories</b>	Test Tube set of 5, Spare Lamp, Dust Cover, Manual			
<b>Filters</b>	8 Filters - 400, 420, 480, 500, 520, 540, 620, 680 nm 5 Filters - 420, 480, 540, 620, 680 nm			
<b>Product Range</b>	Photo Colorimeters, Spectrophotometers, Digital pH Meters, Conductivity/TDS Meters, Turbidity Meters, Digital D.O. Meters, Water & Soil Analysis Kits			

### DELUXE PHOTO COLORIMETER



### SALIENT FEATURES

- Mains cum Battery operated
- In-built Rechargeable Battery
- In-built Light Shutter
- Highly stable & accurate
- Standard German Glass Filters

Model	EST-PC - 112 Digital	EST-PC - 113 Digital
<b>Std. Glass Filter</b>	8	5
<b>Mini Volume</b>	1 ml.	1 ml.
<b>Display</b>	2 1/2 Digit LED	2 1/2 Digit LED
<b>Range</b>	400-700 nm	400-700 nm

<b>Output</b>	OD (0 to 1.99)	OD (0 to 1.99)
<b>Resolution</b>	OD : 0.01	OD : 0.01
<b>Accuracy</b>	0.5% FSI	0.5% FSI
<b>Detector</b>	Selenium Photocell/Photodiode	Selenium Photocell/Photodiode
<b>Light Source</b>	6.8v, 300mA	6.8v, 300mA
<b>Power</b>	230v $\pm$ 10% and In-built Battery	230v $\pm$ 10% and In-built Battery
<b>Accessories</b>	Test Tube set of 5, Spare Lamp, Dust Cover, Manual	
<b>Filters</b>	8 Filters - 400, 420, 480, 500, 520, 540, 620, 680 nm 5 Filters - 420, 480, 540, 620, 680 nm	
<b>Product Range</b>	Spectrophotometers, Flame Photometers, Digital pH Meters, Conductivity/TDS Meters, Turbidity Meters, Digital D.O. Meters, Water & Soil Analysis Kits, K.F. Titrimeters etc.	

### AUTO COLORIMETER



### SALIENT FEATURES

- Absorbance & %T Modes
- Covers 400 to 700nm
- Fast & Accurate Operations
- Automatic Zero Calibration
- 1ml. Solution Measurement
- Standard German Glass Filters

**Model** EST-PC - 114 Digital

<b>Std. Glass Filter</b>	8
<b>Mini Volume</b>	1 ml.

<b>Display</b>	3 Digit, Bright Red 7 Segment LED
<b>Range</b>	400-700 nm
<b>Output</b>	OD: (0 to 1.99), %T: 0 to 199
<b>Resolution</b>	OD : 0.01, %T : 1%
<b>Accuracy</b>	0.5% FSI
<b>Detector</b>	Selenium Photocell/Photodiode
<b>Light Source</b>	6.8v, 300mA
<b>Power</b>	230V $\pm$ 10%, 50 Hz. AC
<b>Dimenstions</b>	220 x 180 x 125 mm (lxbxh) Approx.
<b>Weight</b>	2 Kg. (Approx.)
<b>Accessories</b>	Set of 5 Test Tube , Spare Lamp, Dust Cover & Manual

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