

**Digital Measuring Wheel/ Mini wheel type 1**

- Measuring up to 99,999.9 meters/feet/yards.
- Bright orange "safety" color.
- 99.9% measuring accuracy.
- Large LCD display for easy reading.
- Handy start/stop mode (prevents accidental measurements).
- "Smart wheel"(automatically includes wheel radius for accurate wall to wall measurements).
- Units conversion: meters/feet/yards.
- Auto power on/off after 3 minutes.

**Specifications:**

- Wheel size: 0.314meter(12-23/64") circumference; 0.1meter(3-15/16") diameter.
- Measure range: 99,999.9meters/feet/yards.
- Wheel accuracy: 99.9%
- Wheel composition: High-impact plastic; TPE rubber tire
- Maximum speed: 13km/h
- Product weight: 0.5kgs
- Length(Extended): 1100mm
- Length(contractd): 520mm
- Power: Four AAA duracell batteries
- Auto shut off: 3 min.
- Keypad: 5keys
- Operation temp: -10-60 Deg.C.
- Display type: LCD segment; 6 digits
- Accuracy: 99.9% measuring accuracy


**Order No.810-1001**
**Digital Measuring Wheel/ Mini wheel type 2**

- Measuring up to 99,999.9 meters/feet/yards.
- Bright orange "safety" color.
- 99.9% measuring accuracy.
- Large LCD display for easy reading.
- Handy start/stop mode (prevents accidental measurements).
- "Smart wheel"(automatically includes wheel radius for accurate wall to wall measurements).
- Units conversion: meters/feet/yards, m2, ft2, yd2, acre, m3, ft3, yd3.
- Auto power on/off after 3 minutes.

**Specifications:**

- Wheel size: 0.314meter(12-23/64") circumference; 0.1meter(3-15/16") diameter.
- Measure range: 99,999.9meters/feet/yards.
- Wheel accuracy: 99.9%
- Wheel composition: High-impact plastic; TPE rubber tire
- Maximum speed: 13km/h
- Product weight: 1.2kgs
- Length(Extended): 1009mm
- Length(contractd): 620mm
- Power: Four AAA duracell batteries
- Auto shut off: 3 min.
- Keypad: 5keys
- Operation temp: -10-60 Deg.C.
- Display type: LCD segment; 7 digits
- Accuracy: 99.9% measuring accuracy


**Order No.810-1003**
**Digital Measuring Wheel**
**Features:**

- Handy structure, stretchable handle, easy to carry
- With digital display and memory
- With metric and inch dual system
- With stand
- Double injection wheel, even suitable for slippery ground

**Specifications:**

- Measuring Range: 0-10000m
- Display resolution: 0.1m
- Tolerance: <0.5%
- Power supply: 2xLR3 Batteries


**Order No.810-1002**
**Digital Measuring Wheel/Big Wheel**

- Measuring up to 99,999.9 meters/feet/yards.
- Bright orange "safety" color.
- 99.9% measuring accuracy.
- Large LCD display for easy reading.
- Handy start/stop mode (prevents accidental measurements).
- "Smart wheel"(automatically includes wheel radius for accurate wall to wall measurements).
- Units conversion: meters/feet/yards, m2, ft2, yd2, acre, m3, ft3, yd3.
- Auto power on/off after 3 minutes.

**Specifications:**

- Wheel size: 1 meter(39-3/8") circumference; 0.318meter(12-9/16") diameter.
- Measure range: 99,999.9meters/feet/yards.
- Wheel accuracy: 99.9%
- Wheel composition: High-impact plastic; TPE rubber tire
- Maximum speed: 13km/h
- Product weight: 0.5kgs
- Length(Extended): 1100mm
- Length(contractd): 520mm
- Power: Four AAA duracell batteries
- Auto shut off: 3 min.
- Keypad: 5keys
- Operation temp: -10-60 Deg.C.
- Display type: LCD segment; 6 digits
- Accuracy: 99.9% measuring accuracy


**Order No.810-1004**

## Bio-Microscopes

### XSP-121B

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X;
- Total Magnification: 40X-1000X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm; 30° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 125X130mm,
- Moving Range X-Y: 60X30mm
- $\phi$ 2-  $\phi$ 30mm Iris Diaphragm And  $\phi$  32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 20mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 4.6kg



Order No. 855-1100

### XSP21-01B

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X;
- Total Magnification: 40X-1000X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm; 30° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 125X130mm, Moving Range X-Y: 60X30mm
- $\phi$  2- $\phi$  30mm Iris Diaphragm And  $\phi$  32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 20mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 4.3kg.



Order No. 855-1105

### XSP91-0E6-1

- 45mm DIN Achromatic Objective: 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X;
- Total Magnification: 100X-1000X
- Monocular Head, 45° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 110X125mm, Moving Range X-Y: 60X20mm
- $\phi$  2- $\phi$  30mm Iris Diaphragm And  $\phi$  32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 14mm
- Built-in Incandescent Lamp 20W
- Net Weight/Set: 2.6kg.



Order No. 855-1110

### XSZ21-05B

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X, WF16X;
- Total Magnification: 40X-1600X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm; 30° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 140X155mm, Moving Range X-Y: 70X50mm
- $\phi$  2- $\phi$  30mm Iris Diaphragm And  $\phi$  32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 35mm, Precision: 0.002mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 5.8kg.



Order No. 855-1200

## Bio-Microscopes

### XSZ-701BN

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X, WF16X;
- Total Magnification: 40X-1600X
- Sliding Binocular Head, Interpupillary Distance: 55-75mm; 45° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 140X155mm, Moving Range X-Y: 70X50mm
- $\phi$  2- $\phi$  30mm Iris Diaphragm And  $\phi$  32 Filter.
- ABBE Condenser: N.A. 1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 25mm, Precision: 0.002mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 6.4kg.



Order No. 855-1210

## Stereo Microscopes

### XTD-3C

- Objective: Grouped From Any Two Objectives of 1X, 2X, 3X and 4X, Working Distance: 1X-55mm, 2X-81mm, 3X-61mm, 4X-57mm
- Wide Field Plane-Scope Eyepiece: WF10X, WF15X (Optional)
- Total Magnification: 10X-20X, or 10X-30X, or 10X-40X, or 20X-30X, or 20X-40X, or 30X-40X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm, 45° Inclined;
- Illumination: Top/Bottom Light: 12V/10W Halogen Lamp, with  $\phi$  95mm Frosted Glass Stage Plate
- Rack and Pinion Coarse Focusing Mechanism with Slip Clutch and Tension Adjustment
- Net Weight/Set: 2.4kg



Order No. 855-0711

### XTD-3C-RC

- Objective: Grouped From Any Two Objectives of 1X, 2X, 3X and 4X, Working Distance: 1X-55mm, 2X-81mm, 3X-61mm, 4X-57mm
- Wide Field Plane-Scope Eyepiece: WF10X, WF15X (Optional)
- Total Magnification: 10X-20X, or 10X-30X, or 10X-40X, or 20X-30X, or 20X-40X, or 30X-40X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm, 45° Inclined;
- Illumination: Top/Bottom Light: IWLED Lamp, with  $\phi$  95mm Frosted Glass Stage Plate
- Rack and Pinion Coarse Focusing Mechanism with Slip Clutch and Tension Adjustment
- Net Weight/Set: 2.4kg



Order No. 855-0721

## 7X-30X Stereo Microscopes

- 45° Inclined head with 10X eyepieces (15X Optional).
- 0.7-3X Zoom Objective.
- Diameter of field view: 0.70".
- Work Distance: 3.82".
- Top/Bottom illumination.
- Halogen bulb 6V/10W.



Order No. 855-0095

## 6.7X-45X Zoom Stereo Microscopes

- 45° inclined eye tubes
- Eyepieces: 10X, Zoom Objective: 6.7-4.5X.
- Working Distance: 4"/100mm.
- Adjustable Pupil Distance: 2.17-3"/55-75mm.
- 4-2 5/8"/114mm adjustment stand features rack, pinion and ball bearing guide.
- Two focusing knobs for left and right control.
- Power Supply: 220V 50HZ/ 110V 60HZ
- Illumination System: Incident/Transmitted (855-0261).



**Without Illumination**  
Order No. 855-0101

**With Illumination**  
Order No. 855-0102

## TV/Camera Mounting Port Head & Illumination Type

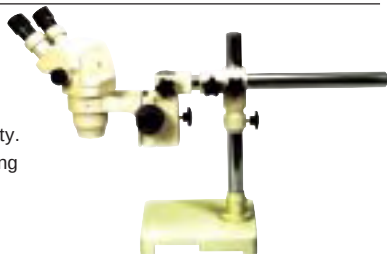
- Illumination System: Incident/Transmitted.
- Complete with illumination (855-0261).
- Optional Accessories:  
TV Adapter & Camera Adapter.



Order No. 855-0104

## Adjustable Arm Type

- Adjustable Boom arm provides maximum comfort and flexibility.
- Extra heavy base provide strong stability.



Order No. 855-0105

## Eyepiece & Auxiliary Objective



| Description               | Order No. |
|---------------------------|-----------|
| Eyepiece 10X 22mm         | 855-0241  |
| Eyepiece 15X 16mm         | 855-0242  |
| Eyepiece 20X 12mm         | 855-0243  |
| Auxiliary Objective 0.3X  | 855-0251  |
| Auxiliary Objective 0.4X  | 855-0252  |
| Auxiliary Objective 0.5X  | 855-0253  |
| Auxiliary Objective 0.75X | 855-0254  |
| Auxiliary Objective 1.5X  | 855-0255  |
| Auxiliary Objective 2.0X  | 855-0256  |

## TV Adapter



Order No. 855-0271

## Camera Adapter



Order No. 855-0281

## 10X-40X Zoom Stereo Microscopes

- Sharp stereo erect image over a wide field view.
- 45° inclined and 360° rotational binocular head.
- Adjustable Pupil Distance: 2.1"-3"/55-75mm.
- Top/Bottom adjustable light.
- Working distance: 3.4"/85mm.



| Types of |            |              |           |
|----------|------------|--------------|-----------|
| Eyepiece | Objectives | Stands       | Order No. |
| 10X      | 1-4X       | Pillar Stand | 855-0301  |
| 10X      | 1-4X       | Arm Stand    | 855-0303  |

## 10X-160X Zoom Microscope

- 1X-4X Continuous Zoom Objective.
- Standard Eyepieces: 10X, 20X.
- Auxiliary Objective: 2X.
- Working Distance: 26mm-87mm/1-3.5".



Order No. 855-0091

## Adjustable Arm Stereo Microscopes

- Top Light: 12V/10W Halogen Bulb.
- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

### 20X Upright Head Style



OrderNo. 855-0081

### 20X, 45° Inclined Head Style



Order No. 855-0082

## Stereo Microscopes

### Upright Head Style

- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

### 20X, Pillar Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X         | Without    |         | 855-0001  |
| 10X      | 2X         | Top        | Halogen | 855-0002  |
| 10X      | 2X         | Top/Bottom | Halogen | 855-0003  |



### 20X, Arm Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X         | Without    |         | 855-0011  |
| 10X      | 2X         | Top        | Halogen | 855-0012  |
| 10X      | 2X         | Top/Bottom | Halogen | 855-0013  |



### 45° Inclined Head Style

- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

### 20X, Pillar Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X         | Without    |         | 855-0021  |
| 10X      | 2X         | Top        | Halogen | 855-0022  |
| 10X      | 2X         | Top/Bottom | Halogen | 855-0023  |





## Stereo Microscopes

### 45° Inclined Head Style

#### 20X, Arm Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X         | Without    |         | 855-0031  |
| 10X      | 2X         | Top        | Halogen | 855-0032  |
| 10X      | 2X         | Top/Bottom | Halogen | 855-0033  |



- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

#### 20X/40X, Pillar Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X/4X      | Without    |         | 855-0041  |
| 10X      | 2X/4X      | Top        | Halogen | 855-0042  |
| 10X      | 2X/4X      | Top/Bottom | Halogen | 855-0043  |



#### 20X/40X, Arm Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X/4X      | Without    |         | 855-0051  |
| 10X      | 2X/4X      | Top        | Halogen | 855-0052  |
| 10X      | 2X/4X      | Top/Bottom | Halogen | 855-0053  |



### 360° Rotatable

#### 45° Inclined Head Style

- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

#### 20X/40X, Pillar Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X/4X      | Without    |         | 855-0061  |
| 10X      | 2X/4X      | Top        | Halogen | 855-0062  |
| 10X      | 2X/4X      | Top/Bottom | Halogen | 855-0063  |



#### 20X/40X, Arm Stand

| Eyepiece | Objectives | Light      | Bulb    | Order No. |
|----------|------------|------------|---------|-----------|
| 10X      | 2X/4X      | Without    |         | 855-0071  |
| 10X      | 2X/4X      | Top        | Halogen | 855-0072  |
| 10X      | 2X/4X      | Top/Bottom | Halogen | 855-0073  |



## 10,20,30X Stereo Microscopes

- 45° Inclined head with 10X eyepieces.
- 1,2,3X objectives.
- Dual illumination.
- Work Distance: 3.15-1.88".
- Pupil Distance: 2.00"-2.75".



Order No. 855-0096

## 10X/30X Stereo Microscope

- Eyepiece: 10X
- Objective: 1X, 3X
- Working Stage: 3"/7.5mm
- Working Distance: 3.7"/95mm
- Bulbs: Halogen
- Light: Adjustable Brightness, Top/Bottom 110V/15W



Order No. 855-0701

## Cool Bright Fiber Illumination Systems

Used for microscope illumination and other illuminations which the heat influence is considered

### Fiber Optic Light Guides

| Types of Light Guides   | Length of Guides | Order No. |
|-------------------------|------------------|-----------|
| Single Light Guide      | 19"/490mm        | 855-0911  |
| Dual Light Guide        | 19"/490mm        | 855-0912  |
| Annular Ring Light-Fits | 35"/900mm        | 855-0913  |



### Fiber Optic Light Sources

| Power          | Lamp             | Order No. |
|----------------|------------------|-----------|
| 110VAC 50/60Hz | Halogen 24V/150W | 855-0901  |
| 220VAC 50/60Hz | Halogen 24V/150W | 855-0902  |



## Optional Accessories for Microscopes

### Eyepieces

| Description | Order No. |
|-------------|-----------|
| 5X 18mm     | 855-0211  |
| 10X 20mm    | 855-0212  |
| 15X 13mm    | 855-0213  |
| 20X 10mm    | 855-0214  |



### Objectives

| Description | Order No. |
|-------------|-----------|
| 1X          | 855-0231  |
| 2X          | 855-0232  |
| 3X          | 855-0233  |
| 4X          | 855-0234  |
| 6X          | 855-0236  |



### Bulbs

| Description               | Order No. |
|---------------------------|-----------|
| Incandescent Bulb 12V/10W | 855-0221  |
| Halogen Bulb 12V/10W      | 855-0222  |

## Hand Held Refractometers

Application:

Measuring cutting/grinding coolants, oil/water concentrations, also used as Brix Tester (Sugar related liquids fruit juices, soft drinks, wine, honey)

- Accurately measures industrial liquids.
- Easy to read scale.
- Maintain and control optimum performance mixture.
- Two items feature automatic Temperature Compensation System.

| Range | Grad.& Accuracy | Description | Order No. |
|-------|-----------------|-------------|-----------|
| 0-10% | 0.1%            | without ATC | 854-4010  |
| 0-10% | 0.1%            | with ATC    | 854-4011  |
| 0-18% | 0.1%            | without ATC | 854-4018  |
| 0-32% | 0.2%            | without ATC | 854-4032  |
| 0-32% | 0.2%            | with ATC    | 854-4033  |
| 0-55% | 1%              | without ATC | 854-4055  |



**Illuminated Magnifiers**

- Switch on/off.
- Two AAA batteries for 854-1030, two C batteries for 854-1110, the rest models feature AA size batteries.
- Glass Lens



|                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|
| <b>Order No.</b> | <b>Order No.</b> | <b>Order No.</b> | <b>Order No.</b> | <b>Order No.</b> |
| 854-1030         | 854-1053         | 854-1066         | 854-1080         | 854-1090         |



|                  |                    |                     |
|------------------|--------------------|---------------------|
| <b>Order No.</b> | <b>Bifocal</b>     | <b>12 Piece Set</b> |
| 854-1110         | Order No. 854-1091 | Order No. 854-1012  |

| Lens Dia. | Power  | Order No. |
|-----------|--------|-----------|
| 30mm      | 6X     | 854-1030  |
| 53mm      | 2.5X   | 854-1053  |
| 66mm      | 2X     | 854-1066  |
| 80mm      | 2X     | 854-1080  |
| 90mm      | 2X     | 854-1090  |
| 110mm     | 2X     | 854-1010  |
| 90mm      | 2X ,4X | 854-1091  |

**Pocket Microscopes**

*For reading fine print, industrial quality control, fine inspections, textiles, etc.*

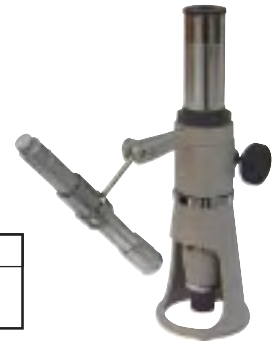
- Use 2 AA batteries ( not included)



| Power  | Description                     | Order No. |
|--------|---------------------------------|-----------|
| 30X    | with Focusing Wheel             | 854-3111  |
| 30X    | Illuminated with Focusing Wheel | 854-3112  |
| 30X    | Illuminated with Focusing Wheel | 854-3113  |
| 40-90X | Illuminated with Focusing Wheel | 854-3114  |

**Deluxe Shop Microscopes**
**with Adjustment Focal Wheel**

- Designed for very distinct, sharp and no color distortion magnified images.
- Glass lens
- Features illumination torch with 2 AAA batteries.



| Power | Order No. |
|-------|-----------|
| 40X   | 855-0600  |
| 80X   | 855-0601  |

**Shop Microscopes**

- Portable shop microscopes for precision and sharp inspection of work pieces.
- 2 in 1 metric and inch straight line scale.
- Glass lens
- 2 AAA batteries.



| Power | Graduation     | Order No. |
|-------|----------------|-----------|
| 20X   | 0.005"/0.1mm   | 854-0420  |
| 40X   | 0.0025"/0.05mm | 854-0440  |
| 60X   | 0.001"/0.02mm  | 854-0460  |
| 100X  | 0.0005"/0.01mm | 854-0500  |

**Magni-Visors**

*Used for reading fine print and precision inspection*

- Outer Lens 1.8X, inner "flip down" Lens for total 2.3X



**Order No. 854-3101**

- Outer Lens 1.8X, inner "flip-down" lens for total 2.3X.
- With 2X Auxiliary Lens, for total 4.8X magnification.



**Order No. 854-3102**

- Outer Lens 1.8X, inner "flip-down" lens for total 2.3X.
- With 2X Auxiliary Lens, for total 4.8X magnification.
- 2 Incandescent bulbs, 2 AAA batteries.



**Order No. 854-3103**