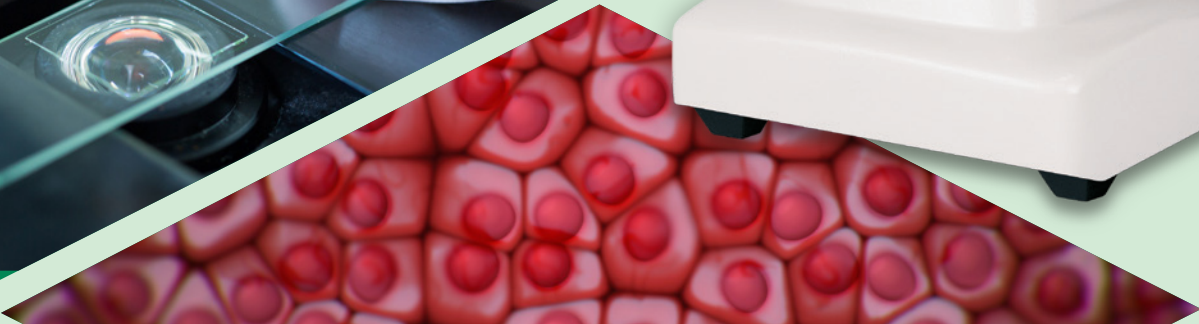
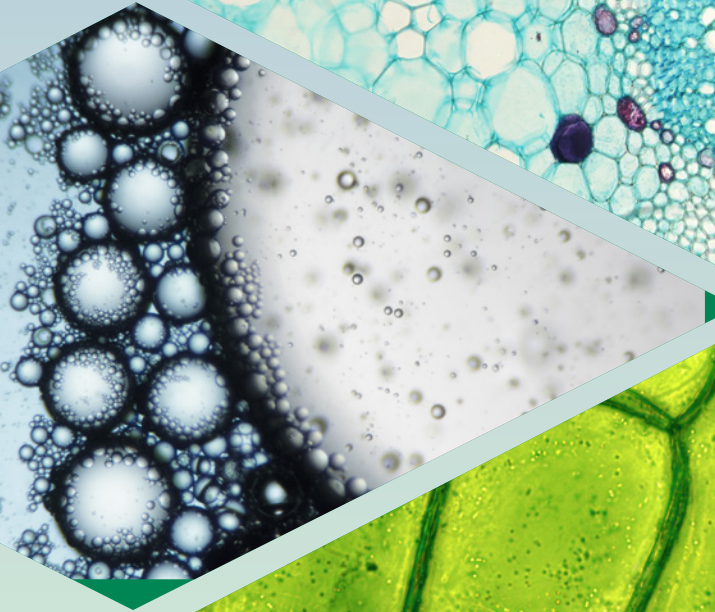
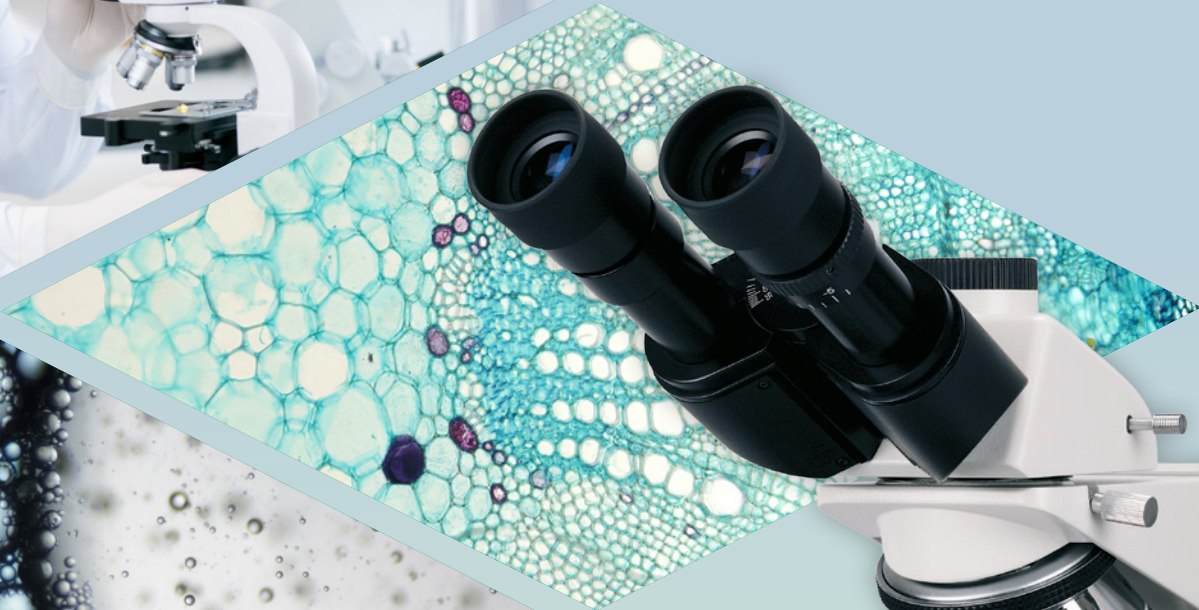


VEE GEE

MICROSCOPES

VEE GEE Scientific
Laboratory Equipment & Supplies



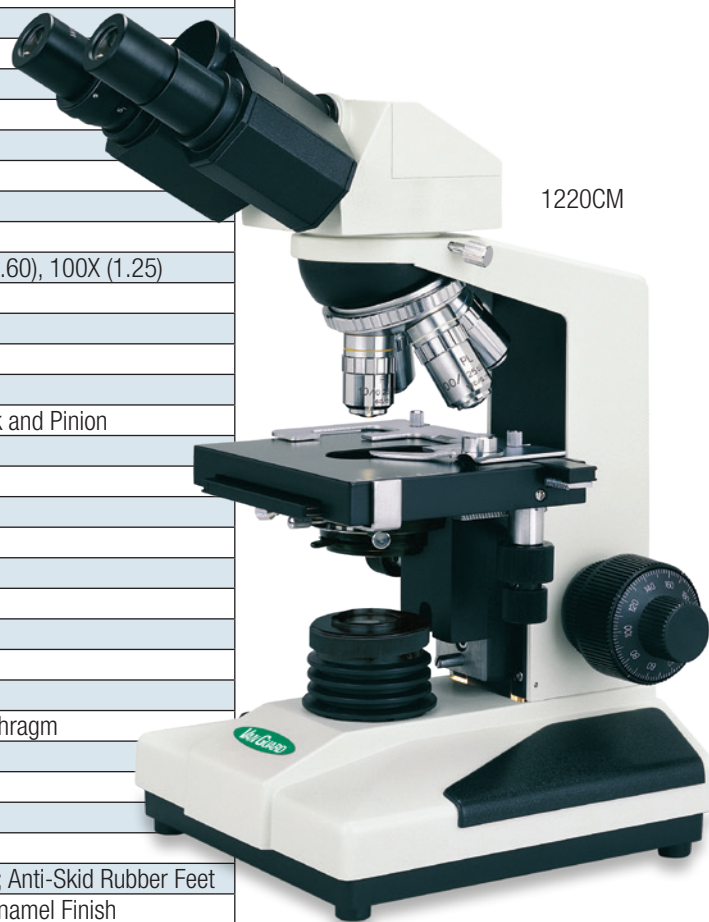
MICROSCOPES

VanGuard 1220CM Compound Microscope

The 1220CM is an economical microscope ideal for use in Education/ University, Medical/Veterinary, and Industrial applications

- The drop-down X-Y stage control is positioned close to the focus control for quick and easy adjustments
- Accessories and parts are available; contact VEE GEE for more information

SPECIFICATIONS		1220CM
Optical System		Fixed 160 mm
Viewing Head	Type	Binocular (Siedentopf)
	Tube Inclination	30°
	Rotation	360°
	Interpupillary	2.2-3 in / 55-75 mm
Eyepieces	Dioptric	-5 to +5
	Magnification	10X
	Type	Widefield
	Field Diameter	0.7 in / 18 mm
Nosepiece	High-Eyepoint	Yes
	Rubber Eyecups	Yes
	Positions	4
	Pitch	Reverse
Objectives	Illumination Technique	Brightfield
	Type	Achromatic
	Magnification (N.A.)	4X (0.10), 10X (0.25), 40X (0.60), 100X (1.25)
	DIN Standard	Yes
Stage	Type	Mechanical
	Shape	Rectangular
	Dimensions (L x W)	5.5 x 4.3 in / 140 x 110 mm
	X-Y Control	Drop-down, Right Hand, Rack and Pinion
	Cross Travel Range	3 x 1.6 in / 75 x 40 mm
	Slide Holder	Removable spring clip
Focusing	Finish	Chemical Resistant
	Type	Coaxial
	Controls	Coarse / Fine
	Tension Adjustment	Yes
	Safety Auto-Stop	Yes
	Focusing Range	0.6 in / 15 mm
Condenser	Precision	0.002 mm
	Type	Abbe 1.25 N.A. with Iris Diaphragm
Illumination	Focusing Control	Rack and Pinion
	Type	20W Variable Quartz Halogen
	Koehler	Field Diaphragm
Specifications	Filter Holder	On Collector
	Base (L x W)	8.3 x 7.1 in / 210 x 180 mm; Anti-Skid Rubber Feet
	Body	Ergonomic; Stain-Resistant Enamel Finish
	Dimensions (L x W x H)	8.3 x 7.1 x 15 in / 210 x 180 x 380 mm
	Weight	7.0 kg
Warranty	Voltage	110 VAC
Supplied With	5-Year Optical/Mechanical; 1-Year Electrical	
	Clear Diffusing Filter, Blue Filter, Spare Lamp and Fuses, Dust Cover, and Operation Manual	

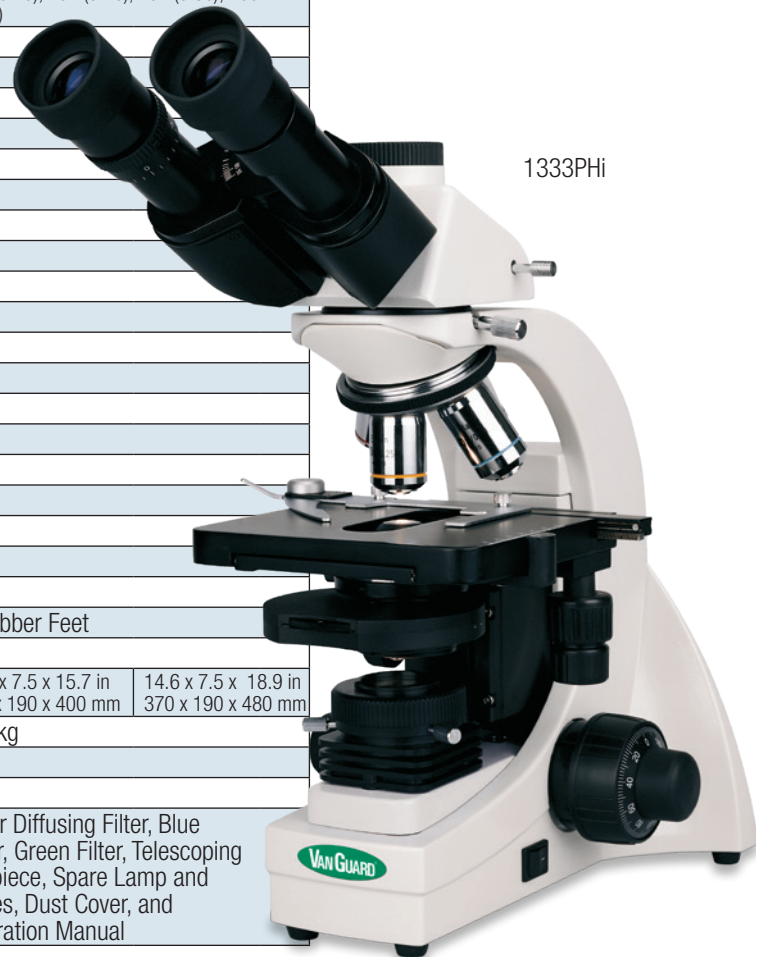


VanGuard 1300-Series Compound Microscopes

Ultra-low focus control, angled viewing head, and interpupillary / dioptic adjustments make this microscope comfortable to use

- The compact frame allows easy arm placement to the controls. Plan objectives provide exceptionally high optical flatness and visual clarity
- Choose from binocular or trinocular viewing heads, and Brightfield or Phase Contrast configurations
- Accessories and parts are available; contact VEE GEE for more information

SPECIFICATIONS		1321Bri	1331Bri	1323PHi	1333PHi
Optical System		VIOS Infinity Corrected			
Viewing Head	Type	Binocular (Siedentopf)	Trinocular (Siedentopf)	Binocular (Siedentopf)	Trinocular (Siedentopf)
	Tube Inclination	30°			
	Rotation	360°			
	Interpupillary	2.2-3 in / 55-75 mm			
	Dioptic	-5 to +5			
Camera Port		N/A	20/80 Spilt	N/A	20/80 Spilt
Eyepieces	Magnification	10X			
	Type	Widefield			
	Field Diameter	0.8 in / 20 mm			
	High-Eyepoint	Yes			
	Rubber Eyecups	Yes			
Nosepiece	Positions	4			
	Pitch	Reverse			
Objectives	Illumination	Brightfield		Brightfield / Darkfield / Phase Contrast	
	Type	Plan Achromatic		Plan Phase	
	Magnification (N.A.)	4X (0.10), 10X (0.25), 40X (0.60), 100X (1.25)		10X (0.25), 20X (0.40), 40X (0.60), 100X (1.25)	
	DIN Standard	Yes			
Stage	Type	Mechanical			
	Shape	Rectangular			
	Dimensions (L x W)	5.5 x 4.3 in / 140 x 110 mm			
	X-Y Control	Drop-down, Right Hand, Rack and Pinion			
	Cross Travel Range	3 x 2 in / 75 x 50 mm			
	Slide Holder	Removable spring clip			
	Finish	Chemical Resistant			
Focusing	Type	Coaxial, Low-Position			
	Controls	Coarse / Fine			
	Tension Adjustment	Yes			
	Safety Auto-Stop	Yes			
	Focusing Range	0.4 in x 10 mm			
	Precision	0.002 mm			
Condenser	Type	Abbe 1.25 N.A. with Iris Diaphragm			
	Focusing Control	Rack and Pinion			
Illumination	Type	20W Variable Quartz Halogen			
	Koehler	Field Diaphragm			
	Filter Holder	On Collector			
Specifications	Base (L x W)	8.9 x 6.9 in / 225 x 175 mm; Anti-Skid Rubber Feet			
	Body	Ergonomic; Stain-Resistant Enamel Finish			
	Dimensions (L x W x H)	14.6 x 7.5 x 15.7 in 370 x 190 x 400 mm	14.6 x 7.5 x 18.9 in 370 x 190 x 480 mm	14.6 x 7.5 x 15.7 in 370 x 190 x 400 mm	14.6 x 7.5 x 18.9 in 370 x 190 x 480 mm
	Weight	6.5 kg		6.8 kg	
	Voltage	110 VAC			
Warranty	5-Year Optical/Mechanical; 1-Year Electrical				
Supplied With	Clear Diffusing Filter, Blue Filter, Spare Lamp and Fuses, Dust Cover, and Operation Manual			Clear Diffusing Filter, Blue Filter, Green Filter, Telescoping Eyepiece, Spare Lamp and Fuses, Dust Cover, and Operation Manual	



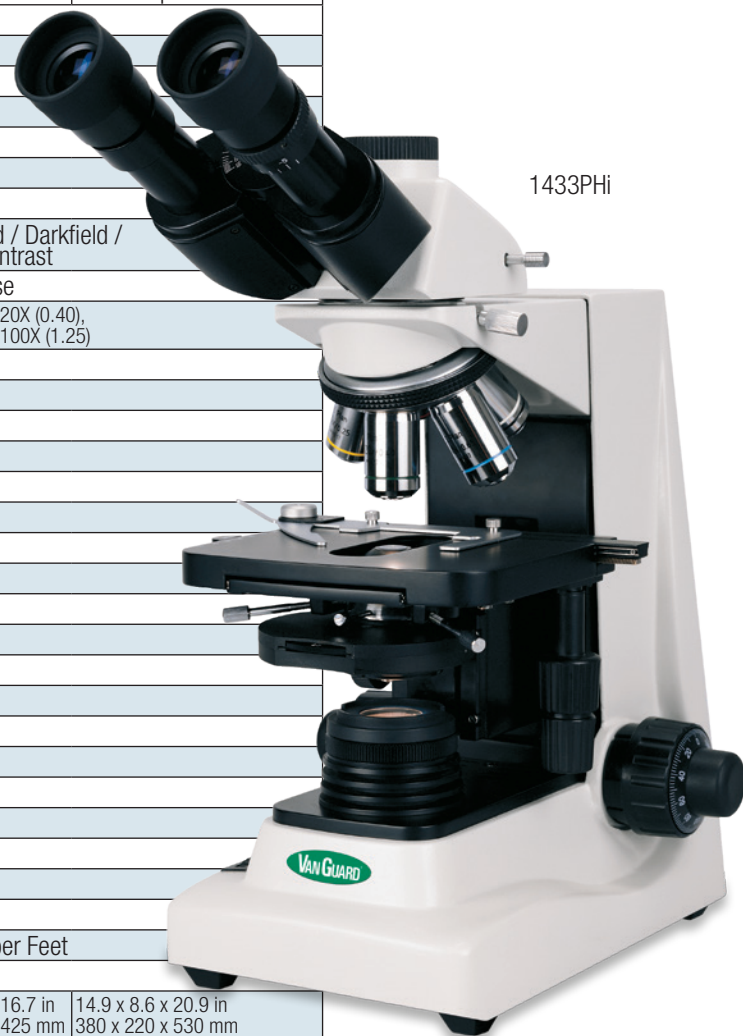
1333PHi

VanGuard 1400-Series Compound Microscopes

Built around a full-size frame, the 1400-Series eliminates the fatigue and strain associated with working long hours over a microscope

- Low-position focusing controls and long drop-down X-Y controls ensure simple, consistent, and comfortable use. Plan objectives provide exceptionally high optical flatness and visual clarity
- Choose from binocular or trinocular viewing heads, and Brightfield or Phase Contrast configurations
- Accessories and parts are available; contact VEE GEE for more information

SPECIFICATIONS		1421Bri	1431Bri	1423PHi	1433PHi
Optical System		VIOS Infinity Corrected			
Viewing Head	Type	Binocular (Siedentopf)	Trinocular (Siedentopf)	Binocular (Siedentopf)	Trinocular (Siedentopf)
	Tube Inclination	30°			
	Rotation	360°			
	Interpupillary	2.2-3 in / 55-75 mm			
	Dioptric	-6 to +6			
Camera Port		N/A	20/80 Spilt	N/A	20/80 Spilt
Eyepieces	Magnification	10X			
	Type	Widefield			
	Field Diameter	0.8 in / 20 mm			
	High-Eyepoint	Yes			
	Rubber Eyecups	Yes			
Nosepiece	Positions	5			
	Pitch	Reverse			
Objectives	Illumination	Brightfield		Brightfield / Darkfield / Phase Contrast	
	Type	Plan Achromatic		Plan Phase	
	Magnification (N.A.)	4X (0.10), 10X (0.25), 40X (0.60), 100X (1.25)		10X (0.25), 20X (0.40), 40X (0.60), 100X (1.25)	
	DIN Standard	Yes			
Stage	Type	Mechanical			
	Shape	Rectangular			
	Dimensions (L x W)	6.1 x 4.3 in / 155 x 110 mm			
	X-Y Control	Drop-down, Right Hand, Rack and Pinion			
	Cross Travel Range	3 x 2 in / 75 x 50 mm			
	Slide Holder	Removable spring clip			
	Finish	Chemical Resistant			
Focusing	Type	Coaxial, Low-Position			
	Controls	Coarse / Fine			
	Tension Adjustment	Yes			
	Safety Auto-Stop	Yes			
	Focusing Range	0.8 in / 20 mm			
	Precision	0.002 mm			
Condenser	Type	Abbe 1.25 N.A. with Iris Diaphragm			
	Focusing Control	Rack and Pinion			
Illumination	Type	20W Variable Quartz Halogen			
	Koehler	Field Diaphragm			
	Filter Holder	On Collector			
Specifications	Base	10.2 x 6.7 in / 260 x 170 mm; Anti-Skid Rubber Feet			
	Body	Ergonomic; Stain-Resistant Enamel Finish			
	Dimensions (L x W x H)	14.9 x 8.6 x 16.7 in 380 x 220 x 425 mm	14.9 x 8.6 x 20.9 in 380 x 220 x 530 mm	14.9 x 8.6 x 16.7 in 380 x 220 x 425 mm	14.9 x 8.6 x 20.9 in 380 x 220 x 530 mm
	Weight	9.0 kg		9.3 kg	
	Voltage	110 VAC			
Warranty	5-Year Optical/Mechanical; 1-Year Electrical				
Supplied With	Clear Diffusing Filter, Blue Filter, Spare Lamp and Fuses, Dust Cover, and Operation Manual			Clear Diffusing Filter, Blue Filter, Green Filter, Telescoping Eyepiece, Spare Lamp and Fuses, Dust Cover, and Operation Manual	



1433PHi

VanGuard 1353SL Stereo Microscope

VanGuard 1353SL Stereo Microscope features precision optics to ensure the highest level of performance for inspection and dissection applications

- Upper and lower LED lighting provides bright and efficient illumination
- Large stage area gives you room to work with bigger objects
- Accessories and parts are available; contact VEE GEE for more information

SPECIFICATIONS		1353SL
Optical System		Fixed 160 mm
Viewing Head	Type	Binocular
	Tube Inclination	45°
	Rotation	360°
	Interpupillary	2.1-3.3 in / 53-83 mm
	Dioptric	-5 to +5
Eyepieces	Magnification	10X
	Type	Extra Widefield
	Field Diameter	0.8 in / 20 mm
	Rubber Eyecups	Yes
Stereo Objectives		1X and 3X
Stage	Plate	Translucent Acrylic
	Clips	Stainless Steel, Spring-Loaded
Focusing Movement		Dual Knobs; Rack and Pinion Assembly
Vertical Travel		125 mm
Illumination	Upper	LED
	Lower	LED
Specifications	Base	11.4 x 10.2 in / 290 x 260 mm
	Body	Ergonomic; Stain-Resistant
	Dimensions (L x W x H)	11.4 x 10.2 x 19.7 / 290 x 260 x 500 mm
	Weight	4.5 kg
	Voltage	110 VAC
Warranty	5-Year Optical/Mechanical; 1-Year Electrical	
Supplied With	Eyecups (2), Dust Cover, and Operation Manual	



USB Color Digital Microscope Camera Systems

Microscope cameras produce high-definition live images and video for documentation of clinical, life sciences, and material science applications

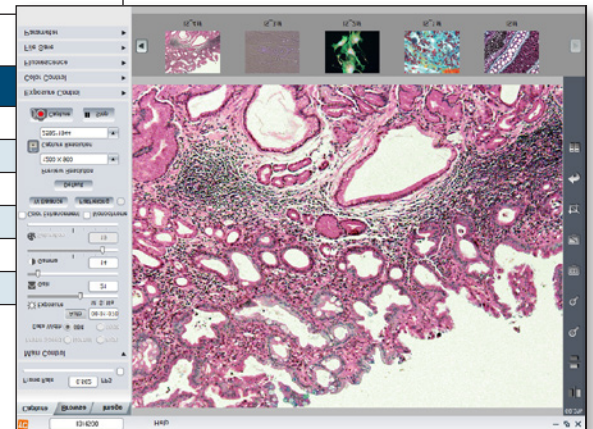
- Cameras feature still and video capture modes, automatic / manual exposure control, manual gamma control, and automatic / manual white balance control
- No separate power cable is required; video, power, and full camera control are all enabled through a single USB cable
- The imaging software allows the user to control all of the advanced settings and has a simple but powerful graphic interface
- Software requires: Windows 7 or later, Intel Core 2 Duo or later, 2 GB of RAM, 2GB hard disk free space, and USB 2.0 / 3.0 port

SPECIFICATIONS	3 MEGAPIXELS	5 MEGAPIXELS	10 MEGAPIXELS
Image Sensor	1/2" CMOS	1/2.5" CMOS	1/2.3" CMOS
Pixel Size	3.2µm x 3.2µm	2.2µm x 2.2µm	1.67µm x 1.67µm
Active Pixels	2048 x 1536	2592 x 1944	3856 x 2764
Frame Rate	2048 1536: 12 fps	2592 x 1944: 5 fps	3856 x 2764: 3 fps
	1024 x 768: 25 fps	1280 x 960: 21 fps	1832 x 1370: 8 fps
	640 x 480: 40 fps	1024 x 768: 25 fps	1280 x 1024: 25 fps
	-----	640 x 480: 38 fps	916 x 680: 28 fps
Sensitivity	1.0 V/Lux-S (550 nm)	0.53 V/Lux-S (550 nm)	0.44 V/Lux-S (550 nm)
Digital Output	24-Bit		
S/N Ratio	> 43 dB	> 40.5 dB	> 40.5 dB
Dynamic Range	54 dB	60 dB	6.5 dB
Capture Mode	Still and Video Color		
Scanning Method	Progressive		
Exposure	Automatic / Manual		
White Balance	Automatic / Manual		
Gamma	Manual		
Interface	USB 2.0 / 3.0		
Specialized Mode	Fluorescence		
Lens Mount	C / CS Mount		
Adapter Lens	0.50X	0.45X	0.45X
Adapters (included)	23 mm, 30 mm, 30.5 mm	23 mm, 30 mm, 30.5 mm	23 mm, 30 mm, 30.5 mm
Twain Compatible	Yes		
Capture Software Suite	Tcapture		
Power	USB 2.0 / 3.0 Bus		
Dimensions (L x W x H)	2.8 x 3.3 x 1.8 in / 70 x 85 x 45 mm		
Weight	0.2 kg		
Supplied With	Adapters and USB cable		



1400 CDPC-10

CAT. NO.	CAMERA TYPE	FOR MICROSCOPE MODELS
1400-CDPC-3	USB Digital Camera, 3 Megapixels	1220CM, 1300-Series, 1400-Series
1400-CDPC-5	USB Digital Camera, 5 Megapixels	1220CM, 1300-Series, 1400-Series
1400-CDPC-10	USB Digital Camera, 10 Megapixels	1220CM, 1300-Series, 1400-Series
M1397-K005-1	USB Digital Camera, 3 Megapixels	1353SL
M1397-K007-1	USB Digital Camera, 5 Megapixels	1353SL
M1397-K009-1	USB Digital Camera, 10 Megapixels	1353SL



Tcapture: Camera Software Screen

Microscope Slide Boxes

Durable & Reusable

- Constructed of durable ABS material
- Easy to clean and re-use for multiple projects

Secure & Safe

- Grooved Slots to securely hold slide in place
- Lining material for added cushion against breakage
- Locking feature on outside of box to prevent accidental opening

Systematic

- Multiple identifying features to make labeling and classification simple
- Removable slide inventory sheet included for slide identification

Microscope Slide Box

- Lockable clasp and hinge pins are nickel-plated and rust resistant
- Identification made easy with numbered cork lining corresponding directly to the slide sheet. Outside cover also features an extra labelling area for "Project" and "Date" classification
- Stack multiple boxes with molded in feet to steadily hold for transport or storage



MICROSCOPE SLIDE BOX						
Cat. No.	Capacity	Color	Material	Lining	Dimensions (L x W x H)	
					Inches	Centimeters
1400-SLCS201	100 slides	Blue	ABS	Cork	8.2 x 6.9 x 1.3	20.8 x 17.5 x 3.4

Premium Microscope Slide Box Assortment

- All plastic construction eliminates the potential of rust
- Sliding polypropelene lock has extra security feature allowing use of a 2-mm zip tie or security tag (not included)
- Center bar in slide storage area is clearly numbered for easy correspondence to the slide inventory sheet. Assorted colors can be used for additional project coding
- Sold as a pack of five slide boxes with assorted colors: one each of Blue, Orange, Green, Red, and Purple



PREMIUM MICROSCOPE SLIDE BOX						
Cat. No.	Capacity	Color	Material	Lining	Dimensions (L x W x H)	
					Inches	Centimeters
1400-SLCS101	100 slides, each box	Blue, Orange, Green, Red, and Purple	Translucent ABS	EVA Foam	8.2 x 7.7 x 1.3	20.7 x 19.5 x 3.2