

ken-a-vision[®]
KNOWLEDGE THROUGH VISION

Research Scope T-2900 Series Technical Specifications

Model Number

T-29031	T-29041
T-29032	T-29042
T-29033	T-29043
T-29034	T-29044
T-29035	T-29045
T-29036	T-29046

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Research Scope with Binocular Head & Achromatic Objectives

Model # T-29031 / T-29031-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Binocular View with 30° Incline	1 – 30° Angle 360° rotation with exposed thumb screw 55mm -75mm diopter distance easily interchangeable	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Achromatic 4x N.A. 0.10, Achromatic 10x N.A. 0.25, Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A. 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Trinocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	20x, 60x(S)
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
Carry Case for Research series 29	Padded and locked		
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	

Research Scope with Trinocular Head & Achromatic Objectives

Model # T-29041 / T-29041-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Trinocular with 30° incline opposing view	2 – 30° Angle 360° rotation attach the 2 eyepieces	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Achromatic 4x N.A. 0.10, Achromatic 10x N.A. 0.25, Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A. 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Binocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	20x, 60x(S)
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
	Carry Case for Research series 29	Padded and locked	
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001-2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	



Research Scope with Binocular Head & Semi Plan Objectives

Model # T-29032 / T-29032-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Binocular View with 30° Incline	1 – 30° Angle 360° rotation with exposed thumb screw 55mm -75mm diopter distance easily interchangeable	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Semi Plan Achromatic 4x N.A. 0.10, Semi Plan Achromatic 10x N.A. 0.25, Semi Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Trinocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	20x, 60x(S)
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
	Carry Case for Research series 29	Padded and locked	
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	

Research Scope with Trinocular Head & Semi Plan Objectives

Model # T-29042 / T-29042-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Trinocular with 30° incline opposing view	2 – 30° Angle 360° rotation attach the 2 eyepieces	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Semi Plan Achromatic 4x N.A. 0.10, Semi Plan Achromatic 10x N.A. 0.25, Semi Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Binocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	20x, 60x(S)
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
	Carry Case for Research series 29	Padded and locked	
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	



Research Scope with Binocular Head & Plan Objectives

Model # T-29033 / T-29033-230

Detailed Specifications (August 2009)

Head	Eyepieces		2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate
			Eyepiece Pointer
	Eyepiece tubes		2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.
	Binocular View with 30° Incline		1 – 30° Angle 360° rotation with exposed thumb screw 55mm -75mm diopter distance easily interchangeable
Frame	Aluminum Single Cast Body		Research based stable all metal construction
	Illumination		Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness
	Collector		High bright Kohler illumination
Optics	Nosepiece		Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation
	Objectives		4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Plan Achromatic 4x N.A. 0.10, Plan Achromatic 10x N.A. 0.25, Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX
Stage	Mechanical Lower Position		Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating
	Condenser		Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters
Focus	Coaxial Coarse and Fine		Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.
Optional upgrades	Viewing Heads		Trinocular Head
	Eyepiece		WF5x, WF20x
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	20x, 60x(S)
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast		Attachment for Research 29 series
	Infinity Turret Phase Contrast		Attachment for Research 29 series
	Carry Case for Research series 29		Padded and locked
5 hole Nose Piece		For Research 29 series Attachment	
Packing	Boxing		Two inner cartons in one outer carton
	Protective Cover		Durable Clear Dust cover with Ken-A-Vision logo
Certificates	Quality Certificates		ISO:9001–2000
	Local Certificates		CE, CSA, RoHS
	Warranty Guarantee		10 Years against manufacturing faults

Research Scope with Trinocular Head & Plan Objectives

Model # T-29043 / T-29043-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Trinocular with 30° incline opposing view	2 – 30° Angle 360° rotation attach the 2 eyepieces	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Plan Achromatic 4x N.A. 0.10, Plan Achromatic 10x N.A. 0.25, Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Binocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	20x, 60x(S)
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
	Carry Case for Research series 29	Padded and locked	
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	



Research Scope with Binocular Head & Infinity Achromatic Objectives

Model # T-29034 / T-29034-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Binocular View with 30° Incline	1 – 30° Angle 360° rotation with exposed thumb screw 55mm -75mm diopter distance easily interchangeable	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Infinity Achromatic 4x N.A. 0.10, Infinity Achromatic 10x N.A. 0.25, Infinity Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Trinocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	20x, 60x(S)
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
	Carry Case for Research series 29	Padded and locked	
	5 hole Nose Piece	For Research 29 series Attachment	
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	

Research Scope with Trinocular Head & Infinity Achromatic Objectives

Model # T-29044 / T-29044-230

Detailed Specifications (August 2009)

Head	Eyepieces		2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate
			Eyepiece Pointer
	Eyepiece tubes		2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.
	Trinocular with 30° incline opposing view		2 – 30° Angle 360° rotation attach the 2 eyepieces
Frame	Aluminum Single Cast Body		Research based stable all metal construction
	Illumination		Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness
	Collector		High bright Kohler illumination
Optics	Nosepiece		Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation
	Objectives		4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Infinity Achromatic 4x N.A. 0.10, Infinity Achromatic 10x N.A. 0.25, Infinity Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX
Stage	Mechanical Lower Position		Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating
	Condenser		Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters
Focus	Coaxial Coarse and Fine		Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.
Optional upgrades	Viewing Heads		Binocular Head
	Eyepiece		WF5x, WF20x
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	20x, 60x(S)
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast		Attachment for Research 29 series
	Infinity Turret Phase Contrast		Attachment for Research 29 series
	Carry Case for Research series 29		Padded and locked
5 hole Nose Piece		For Research 29 series Attachment	
Packing	Boxing		Two inner cartons in one outer carton
	Protective Cover		Durable Clear Dust cover with Ken-A-Vision logo
Certificates	Quality Certificates		ISO:9001–2000
	Local Certificates		CE, CSA, RoHS
	Warranty Guarantee		10 Years against manufacturing faults



Research Scope with Binocular Head & Infinity Semi Plan Objectives

Model # T-29035 / T-29035-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Binocular View with 30° Incline	1 – 30° Angle 360° rotation with exposed thumb screw 55mm -75mm diopter distance easily interchangeable	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Inifinity Semi Plan Achromatic 4x N.A. 0.10, Inifinity Semi Plan Achromatic 10x N.A. 0.25, Inifinity Semi Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Trinocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	20x, 60x(S)
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
	Carry Case for Research series 29	Padded and locked	
	5 hole Nose Piece	For Research 29 series Attachment	
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	

Research Scope with Trinocular Head & Infinity Semi Plan Objectives

Model # T-29045 / T-29045-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Trinocular with 30° incline opposing view	2 – 30° Angle 360° rotation attach the 2 eyepieces	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Inifinity Semi Plan Achromatic 4x N.A. 0.10, Inifinity Semi Plan Achromatic 10x N.A. 0.25, Inifinity Semi Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Binocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	20x, 60x(S)
		Infinity Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
Carry Case for Research series 29	Padded and locked		
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	



Research Scope with Binocular Head & Infinity Plan Objectives

Model # T-29036 / T-29036-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Binocular View with 30° Incline	1 – 30° Angle 360° rotation with exposed thumb screw 55mm -75mm diopter distance easily interchangeable	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Inifinity Plan Achromatic 4x N.A. 0.10, Inifinity Plan Achromatic 10x N.A. 0.25, Inifinity Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A. 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Trinocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Inifinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Inifinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Inifinity Plan	20x, 60x(S)
	Turret Phase Contrast	Attachment for Research 29 series	
	Inifinity Turret Phase Contrast	Attachment for Research 29 series	
	Carry Case for Research series 29	Padded and locked	
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	

Research Scope with Trinocular Head & Infinity Plan Objectives

Model # T-29046 / T-29046-230

Detailed Specifications (August 2009)

Head	Eyepieces	2 – WF10x 20mm with EyeGlass Guards eyepiece coating for humidity and poor climate	
		Eyepiece Pointer	
	Eyepiece tubes	2 – 1 Variable adjustment $\pm 0.50X$ for varied eye strengths.	
	Trinocular with 30° incline opposing view	2 – 30° Angle 360° rotation attach the 2 eyepieces	
Frame	Aluminum Single Cast Body	Research based stable all metal construction	
	Illumination	Halogen tungsten bulb, 12V 20W AC 85V – 240V; input Adjustable (variable) brightness	
	Collector	High bright Kohler illumination	
Optics	Nosepiece	Reversed 4 hole nosepiece with 4 position ball bearing action stop; 360° full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Inifinity Plan Achromatic 4x N.A. 0.10, Inifinity Plan Achromatic 10x N.A. 0.25, Inifinity Plan Achromatic 40x N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen) and 100x (spring loaded) oil N.A 0.XX	
Stage	Mechanical Lower Position	Double Layer mechanical stage 180mm X 150mm; movement range 75mm X 50mm vernier X/Y with scratch resistant coating	
	Condenser	Factory centered 1.25 with rack and pinion, set screw adjustments, filter holder and filters	
Focus	Coaxial Coarse and Fine	Low position coaxial focus with left or right hand low drive control; with rotating mechanism and torque adjustment .75 course rotation from minimum to maximum stage height. Fine 0.002mm per unit scale mechanism, ergonomic scale on both fine and course focus knobs.	
Optional upgrades	Viewing Heads	Binocular Head	
	Eyepiece	WF5x, WF20x	
	Objectives	Achromatic Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Achromatic	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Semi-Plan	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
		Infinity Plan	20x, 60x(S)
	Turret Phase Contrast	Attachment for Research 29 series	
	Infinity Turret Phase Contrast	Attachment for Research 29 series	
Carry Case for Research series 29	Padded and locked		
5 hole Nose Piece	For Research 29 series Attachment		
Packing	Boxing	Two inner cartons in one outer carton	
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo	
Certificates	Quality Certificates	ISO:9001–2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults	



Research Scope T-29000 Series

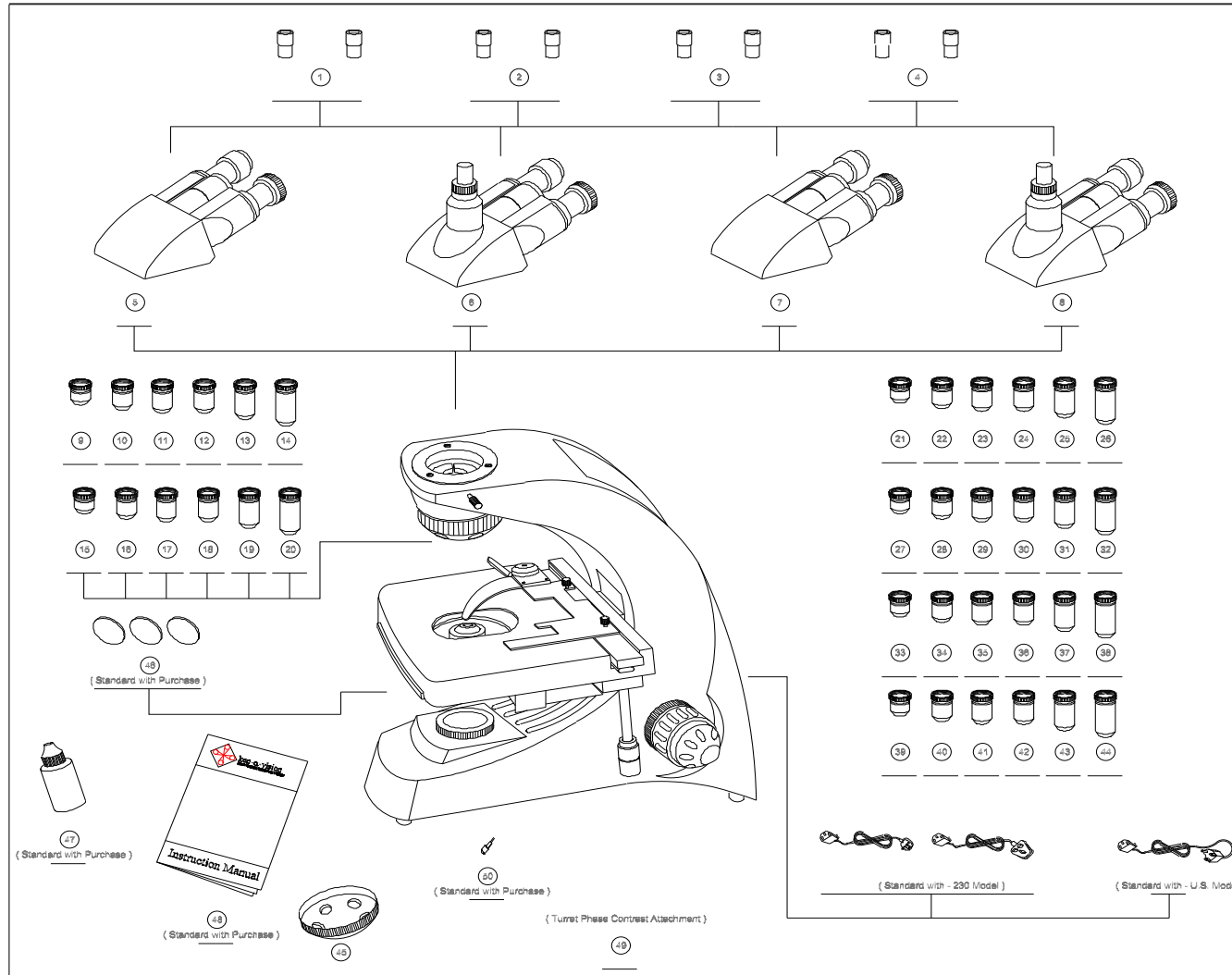
Product Configuration		T-29031	T-29041	T-29032	T-29042	T-29033	T-29043	T-29034	T-29044	T-29035	T-29045	T-29036	T-29046	MSRP
	MSRP	\$1,150	\$1,250	\$1,500	\$1,600	\$1,700	\$1,800	\$1,500	\$1,600	\$1,600	\$1,700	\$1,999	\$2,100	
	Research with Mechanical Stage 110V - 240V	X	X	X	X	X	X	X	X	X	X	X	X	
Standard Features														
	Stable Base	X	X	X	X	X	X	X	X	X	X	X	X	
	Halogen 12V 20W	X	X	X	X	X	X	X	X	X	X	X	X	
	High bright Kohler illumination	X	X	X	X	X	X	X	X	X	X	X	X	
	Low Position Coaxial fine focus scale .002mm	X	X	X	X	X	X	X	X	X	X	X	X	
Heads														
SC29BH	30° inclined Binocular 55mm - 75mm	X		X		X		X		X		X		\$ 279.00
SC29TH	30° inclined Trinocular Head 55mm - 75mm		X		X		X		X		X		X	\$ 359.00
SC29CFBHI	30° inclined Binocular 55mm - 75mm Infinity Corrected													\$ 289.00
SC29CFTHI	30° inclined Trinocular 55mm - 75mm Infinity Corrected													\$ 389.00
Stage														
	Double layer Mechanical Stage; 180mm X 150mm stage size; 75mm 50mm range	X	X	X	X	X	X	X	X	X	X	X	X	
Condensor														
	N.A. 1.25 Abbe condenser with Iris diaphragm & Filters	X	X											
Detail Individual Configurations														
Eyepieces														
SC29EP5X	WF5X Eyepiece for Research Scope with Eyeglass Guard (Pair)													\$ 58.00
SC29EP10X	WF10X Eyepiece for Research Scope with Eyeglass Guard (Pair)	X	X	X	X	X	X	X	X	X	X	X	X	\$ 58.00
SC29EP15X	WF15X Eyepiece for Research Scope with Eyeglass Guard (Pair)													\$ 58.00
SC29EP20X	WF20X Eyepiece for Research Scope with Eyeglass Guard (Pair)													\$ 58.00
DIN Objectives - Lead Free														
Achromat	Achromat Objective Lens for Research 29 series													
SC29OB4	4X	X	X											\$ 29.00
SC29OB10	10X	X	X											\$ 29.00
SC29OB20	20X													\$ 39.00
SC29OB40R	40X (S)	X	X											\$ 59.00
SC29OB60R	60X (S)													\$ 69.00
SC29OB100R	100X (S) Oil	X	X											\$ 99.00
Semi-Plan	Semi-Plan Objective Lens for Research 29 series													
SC29OB4SP	4X			X	X									\$ 29.00
SC29OB10SP	10X			X	X									\$ 49.00
SC29OB20SPR	20X													\$ 59.00
SC29OB40SPR	40X (S)			X	X									\$ 69.00
SC29OB60SPR	60X (S)													\$ 119.00
SC29OB100SPR	100X (S) oil			X	X									\$ 149.00
Plan	Plan Achromat Objective Lens for Research 29 series													
SC29OB4P	4X					X	X							\$ 29.00
SC29OB10PR	10X					X	X							\$ 89.00
SC29OB20PR	20X													\$ 119.00
SC29OB40PR	40X (S)					X	X							\$ 179.00
Plan	Plan Achromat Objective Lens for Research 29 series													



Research Scope T-29000 Series

Product Configuration		T-29031	T-29041	T-29032	T-29042	T-29033	T-29043	T-29034	T-29044	T-29035	T-29045	T-29036	T-29046	MSRP
SC29OB60PR	60X (S)													\$ 229.00
SC29OB100PR	100X (S) oil					X	X							\$ 239.00
Infinity Achromatic	Infinity Achromatic Objective Lens for Research 29 series													
SC29OB4I	4X							X	X					\$ 29.00
SC29OB10I	10X							X	X					\$ 59.00
SC29OB20IR	20X													\$ 69.00
SC29OB40IR	40X (S)							X	X					\$ 79.00
SC29OB60IR	60X (S)													\$ 139.00
SC29OB100IR	100X (S) oil							X	X					\$ 149.00
Infinity Semi-Plan	Infinity Semi-Plan Objective Lens for Research 29 series													
SC29OB4ISP	4X									X	X			\$ 39.00
SC29OB10ISP	10X									X	X			\$ 69.00
SC29OB20ISPR	20X													\$ 89.00
SC29OB40ISPR	40X (S)									X	X			\$ 99.00
SC29OB60ISPR	60X (S)													\$ 159.00
SC29OB100ISPR	100X (S) oil									X	X			\$ 209.00
Infinity Plan	Infinity Plan Objective Lens for Research 29 series													
SC29OB4IP	4X											X	X	\$ 49.00
SC29OB10IP	10X											X	X	\$ 139.00
SC29OB20IPR	20X													\$ 169.00
SC29OB40IPR	40X (S)										X	X		\$ 229.00
SC29OB60IPR	60X (S)													\$ 269.00
SC29OB100IPR	100X (S) oil											X	X	\$ 269.00
Options														
SC29TPH	Turret Phase Contrast Attachment for Research 29 series													\$ 1,599.00
SC29CFBHI	30° inclined Binocular 55mm - 75mm Infinity Corrected													\$ 289.00
SC29CFTHI	30° inclined Trinocular 55mm - 75mm Infinity Corrected													\$ 389.00
SC29ITPH	InfinityTurret Phase Contrast Attachment for Research 29 series													\$ 1,900.00
SC29CASE	Carry Case for Research series 29 series													\$ 189.00
SC29NP5	5 hole Nose Piece for Research 29 series Attachment													\$ 99.00

Research Scope T-2900 Series



PARTS LIST FOR THIS SHEET ONLY			
FIG	PART NUMBER	DESCRIPTION (1)	QTY
1	SC29EP6X	W/Fx Eyepiece for Research Scope with Eyeglass Guard (Pair)	
2	SC29EP10X	W/Fx Eyepiece for Research Scope with Eyeglass Guard (Pair)	
3	SC29EP15X	W/Fx Eyepiece for Research Scope with Eyeglass Guard (Pair)	
4	SC29EP20X	W/Fx Eyepiece for Research Scope with Eyeglass Guard (Pair)	
5	SC29E1	30° inclined Binocular Head 55mm - 75mm	
6	SC29T1	30° inclined Trinocular Head 55mm - 75mm	
7	SC29CF1	30° inclined Binocular Head 55mm - 75mm Infinity Corrected	
8	SC29CF11	30° inclined Trinocular Head 55mm - 75mm Infinity Corrected	
9	SC29OB4	Achromat Objective Lens for Research 29 series - 4x	
10	SC29OB10	Achromat Objective Lens for Research 29 series - 10x	
11	SC29OB20	Achromat Objective Lens for Research 29 series - 20x	
12	SC29OB40R	Achromat Objective Lens for Research 29 series - 40x (R)	
13	SC29OB80R	Achromat Objective Lens for Research 29 series - 80x (R)	
14	SC29OB100R	Achromat Objective Lens for Research 29 series - 100x (R) OI	
15	SC29OB48P	Semi-Plan Objective Lens for Research 29 series - 4x	
16	SC29OB108P	Semi-Plan Objective Lens for Research 29 series - 10x	
17	SC29OB208P	Semi-Plan Objective Lens for Research 29 series - 20x	
18	SC29OB48PR	Semi-Plan Objective Lens for Research 29 series - 40x (R)	
19	SC29OB808PR	Semi-Plan Objective Lens for Research 29 series - 80x (R)	
20	SC29OB1008PR	Semi-Plan Objective Lens for Research 29 series - 100x (R) OI	
21	SC29OB1P	Plan Objective Lens for Research 29 series - 4x	
22	SC29OB10P	Plan Objective Lens for Research 29 series - 10x	
23	SC29OB20P	Plan Objective Lens for Research 29 series - 20x	
24	SC29OB40PR	Plan Objective Lens for Research 29 series - 40x (R)	
25	SC29OB80PR	Plan Objective Lens for Research 29 series - 80x (R)	
26	SC29OB100PR	Plan Objective Lens for Research 29 series - 100x (R) OI	
27	SC29OB11	Infinity Achromatic Objective Lens for Research 29 series - 4x	
28	SC29OB101	Infinity Achromatic Objective Lens for Research 29 series - 10x	
29	SC29OB201R	Infinity Achromatic Objective Lens for Research 29 series - 20x	
30	SC29OB401R	Infinity Achromatic Objective Lens for Research 29 series - 40x (R)	
31	SC29OB801R	Infinity Achromatic Objective Lens for Research 29 series - 80x (R)	
32	SC29OB1001R	Infinity Achromatic Objective Lens for Research 29 series - 100x (R) OI	
33	SC29OB18P	Infinity Semi-Plan Objective Lens for Research 29 series - 4x	
34	SC29OB1018P	Infinity Semi-Plan Objective Lens for Research 29 series - 10x	
35	SC29OB2018P	Infinity Semi-Plan Objective Lens for Research 29 series - 20x	
36	SC29OB4018P	Infinity Semi-Plan Objective Lens for Research 29 series - 40x (R)	
37	SC29OB8018P	Infinity Semi-Plan Objective Lens for Research 29 series - 80x (R)	
38	SC29OB10018P	Infinity Semi-Plan Objective Lens for Research 29 series - 100x (R) OI	
39	SC29OB11P	Infinity Semi-Plan Objective Lens for Research 29 series - 4x	
40	SC29OB101P	Infinity Semi-Plan Objective Lens for Research 29 series - 10x	
41	SC29OB201P	Infinity Semi-Plan Objective Lens for Research 29 series - 20x	
42	SC29OB401P	Infinity Semi-Plan Objective Lens for Research 29 series - 40x (R)	
43	SC29OB801P	Infinity Semi-Plan Objective Lens for Research 29 series - 80x (R)	
44	SC29OB1001P	Infinity Semi-Plan Objective Lens for Research 29 series - 100x (R) OI	
45	SC29P1	3 Hole Nose Piece for Research 29 series Attachment	
46	SC29FS	Research Scope Filter Set (S - OI - YL)	
47	TAOB	Bottle of Oil for the 100X Objective	
48	I18 - SC29	Research Scope 29 series Instruction Manual	
49	SC29TP1	Turret Phase Contrast Attachment	
50	TB-20V/P	Research Scope 29 series Replacement Bulb	
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T-2900		Project Key For Sketch	
DATE	PJB	REV	REV
CHECKED		DATE	DATE
APPROVED		REV	REV
T-2900		T-2900.dwg	
October 17, 2009		SHEET 1 OF 1	



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