



# AVEN

## MICROSCOPY MARKETING GUIDE

This guide contains marketing and competitive information comparing the Aven Microscope Line to the following products:

1. Scienscope
2. Luxo

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# Microscopy Basics

## Key Terms:

1. **Working Distance:** The working distance is from the bottom of the microscope to the viewing surface when properly focused. *The **ONLY** thing that changes the working distance of a microscope is the auxiliary lens that screws onto the bottom of the microscope.*
2. **Magnification:** The magnification is the multiplication of all lenses. There are 3 numbers involved: eyepiece power, zoom power of the body and auxiliary lens power.

**Example:** For a microscope with 10X Eyepiece, Zoom Value of 1.5 (As shown on the zoom knob scale) and a .5x auxiliary lens.

$$\text{Magnification: } 10 \times 1.5 \times 0.5 = 7.5x$$

If you want to change the overall magnification without changing the working distance, you must either change the zoom knob setting or the eyepieces. **REMEMBER: Changing the Auxiliary Lens will always change the working distance.**

3. **Field of View (FOV):** The working diameter you can see through the microscope. Dependent on magnification, lower the magnification the larger the field of view and vice-versa.

## HOW TO SELECT THE CORRECT AVEN MICROSCOPE

When selecting a microscope you need to know at least 2 of the 3 following items:

1. Magnification Range
2. Minimum Working Distance
3. Field of View Range

From this data you can use the tables to find the scope body, eyepieces and aux. lens required to meet your requirements.

**OPTICAL DATA FOR SPZ-50 / SPZT-50**

Eyepiece	DHW10X (F.N.23)				
	Auxiliary Lens	w/0.5x	w/0.75x	w/1.6x	w/2x
Magnifications	6.7x-50x	3.35x-25x	5x-37.5x	10.72x-80x	13.4x-100x
Working Distance	108mm	240mm	132mm	50mm	41mm
Field of View	34.3-4.6mm	68.9-9.2mm	45.7-6.1mm	21.4-2.8mm	17.1-2.3mm

**OPTICAL DATA FOR SPZ-50 / SPZT-50**

Eyepiece	DHW15X (F.N. 15)				
	Auxiliary Lens	w/0.5x	w/0.75x	w/1.6x	w/2x
Magnifications	10.05x-75x	5.02x-37.5x	7.53-56.25x	16.08x-120x	20.1x-150x
Working Distance	108mm	240mm	132mm	50mm	41mm
Field of View	22.3-3mm	44.7-6mm	29.8-4mm	16-1.8mm	11.1-1.5mm

**OPTICAL DATA FOR SPZ-50 / SPZT-50**

Eyepiece	DHW20X (F.N. 11.4)				
	Auxiliary Lens	w/0.5x	w/0.75x	w/1.6x	w/2x
Magnifications	13.4x-100x	6.7x-50x	10.05x-75x	21.44x-160x	26.8x-200x
Working Distance	108mm	240mm	132mm	50mm	41mm
Field of View	17-2.2mm	34-4.5mm	22.6-3mm	10.6-1.4mm	8.5-1.1mm

**OPTICAL DATA FOR DSZ-44 / DSZT-44**

Eyepiece	DSW5X (F.N. 22.5)				DSW10X (F.N. 23)			
	Auxiliary Lens	w/0.5x	w/0.75x	w/1.6x	Nil	w/0.5x	w/0.75x	w/1.6x
Magnifications	5x-22x	2.5x-11x	3.75x-16.5x	8x-35.2x	10x-44x	5x-22x	7.5x-33x	16x-70.4x
Working Distance	90mm	150mm	105mm	45mm	90mm	150mm	105mm	45mm
Field of View	22.5-5.1mm	45-10.2mm	30-6.8mm	14-3.1mm	23-5.2mm	46-10.4mm	30.6-6.9mm	14.3-3.2mm

**OPTICAL DATA FOR DSZ-44 / DSZT-44**

Eyepiece	DSW15X (F.N. 15)				DSW20X (F.N. 11.4)			
	Auxiliary Lens	w/0.5x	w/0.75x	w/1.6x	Nil	w/0.5x	w/0.75x	w/1.6x
Magnifications	15x-66x	7.5x-33x	11.25x-49.5x	24x-105.6x	20x-88x	10x-44x	15x-66x	32x-140.8x
Working Distance	90mm	150mm	105mm	45mm	90mm	150mm	105mm	45mm
Field of View	15-3.4mm	30-6.8mm	20-49.5mm	9.3-2.1mm	11.4-2.5mm	22.8-5.1mm	15.2-3.45mm	7.1-1.6mm

**OPTICAL DATA FOR DSZ-70 / DSZT-70**

Eyepiece	DSW5XZ (F.N. 20)				DSW10XZ (F.N. 20)			
	Auxiliary Lens	w/0.5x	w/0.75x	w/1.6x	Nil	w/0.5x	w/0.75x	w/1.6x
Magnifications	10x-35x	5x-17.5x	7.5x-26.25x	16x-56x	20x-70x	10x-35x	15x-52.5x	32x-112x
Working Distance	80mm	120mm	85mm	41mm	80mm	120mm	85mm	41mm
Field of View	10-2.9mm	20-5.7mm	13.3-3.8mm	6.2-1.7mm	10-2.8mm	20-5.7mm	13.3-3.8mm	6.2-1.7mm

**OPTICAL DATA FOR DSZ-70 / DSZT-70**

Eyepiece	DSW15X (F.N. 15)				DSW20X (F.N. 11.4)			
	Auxiliary Lens	w/0.5x	w/0.75x	w/1.6x	Nil	w/0.5x	w/0.75x	w/1.6x
Magnifications	30x-105x	15x-52.5x	22.5x-78.75x	48x-168x	40x-140x	20x-70x	30x-105x	64x-224x
Working Distance	80mm	120mm	85mm	41mm	80mm	120mm	85mm	41mm
Field of View	7.5-2.1mm	15-4.2mm	10-2.8mm	4.6-1.3mm	5.7-1.6mm	11.4-3.2mm	7.6-2.1mm	3.5-1mm

## HOW TO READ THE OPTICAL DATA CHART

### OPTICAL DATA FOR DSZ-70 / DSZT-70 (1)

(2) Eyepiece	(2) DSW15X (F.N. 15)				(2) DSW20X (F.N. 11.4)			
Auxiliary Lens (3)	Nil	w/0.5x	w/0.75x	w/1.6x	Nil	w/0.5x	w/0.75x	w/1.6x
Magnifications	30x-105x	15x-52.5x	22.5x-78.75x	48x-168x	40x-140x	20x-70x	30x-105x	64x-224x
Working Distance	80mm	120mm	85mm	41mm	80mm	120mm	85mm	41mm
Field of View	7.5-2.1mm	15-4.2mm	10-2.8mm	4.6-1.3mm	5.7-1.6mm	11.4-3.2mm	7.6-2.1mm	3.5-1mm

### Section (1) Body Type

This section shows the microscope body type. With the Aven line you have 3 choices in either binocular or tri-nocular. DSZ/DSZT-44, DSZ/DSZT-70 or SPZ/SPZT-50.

### Section (2) Eyepiece Magnification

This section shows the selected eyepieces. Depending on the body type selected different eyepieces are available from 5x to 20x. The standard eyepieces that come with each body type is 10x. That is the eyepiece standard used to rate the scopes magnification range. So when we say the scope has a nominal magnification range of 20x-70x, we assume that is with 10x eyepieces and no auxiliary lenses. **Remember: Changing the eyepieces changes only the magnification range and not the working distance.**

### Section (3) Auxiliary Lens

This section shows the aux lens selected. The Aux lens is used to change the working distance of the scope. It also changes the magnification range as well. An Aux lens less than 1 increases the working distance, and aux lens greater than 1 reduces the working distance.

### EXAMPLE:

*A customer needs a microscope with a minimum working distance of 100mm and a magnification range from 3x-8x.*

What scope and accessories would we recommend?

Answer: Looking at the charts we can see the DSZ/DSZT-44 with a .5x aux lens and 5x eyepieces will fit the specification:

### OPTICAL DATA FOR DSZ-44 / DSZT-44

Eyepiece	DSW5X (F.N. 22.5)				DSW10X (F.N. 23)			
Auxiliary Lens	Nil	w/0.5x	w/0.75x	w/1.6x	Nil	w/0.5x	w/0.75x	w/1.6x
Magnifications	5x-22x	2.5x-11x	3.75x-16.5x	8x-35.2x	10x-44x	5x-22x	7.5x-33x	16x-70.4x
Working Distance	90mm	150mm	105mm	45mm	90mm	150mm	105mm	45mm
Field of View	22.5-5.1mm	45-10.2mm	30-6.8mm	14-3.1mm	23-5.2mm	46-10.4mm	30.6-6.9mm	14.3-3.2mm

The Aven Advantage:

What sets an Aven Microscope apart from its Chinese competitors?

One word: Quality. Aven imports its microscopes from Carton Optical of Japan. Unlike its Chinese competitors, Carton has had over 30 years of experience in the microscope industry. Below are just a few of the differences in quality that make an Aven microscope superior:

Aven microscopes utilize optical resolution glass, most Chinese scopes do not.

Chinese factories are constantly changing their design and do not make spare parts. So, if you need to repair a scope from China that is over 6 months old, chances are spare parts will not be available. That is not the case with an Aven scope.

Carton manufactures to strict tolerances whereas Chinese factories do not. To make up for this variation they use an inexpensive grease not easily available in the US to make up for variations. Once this grease breaks down, the inner workings of the microscope cannot be fixed without remanufacturing its internal workings, which is very costly.

Aven offers 3 different microscope bodies. Most of the competitions have one maybe two body types.

Stands and Lighting accessories: Aven offers a complete line of stands from the popular PRM stand (unique to Aven) to a full range of boom stands. Only Aven offers a complete lighting range from fluorescent to fiber optic to LED.

Create your own system: Unlike the competition that have only packaged systems. Aven understands that each application is unique which is why on the Aven website you can configure and price the right system for the application.

## Cross Reference Charts

Attached are cross reference charts to help you easily find a replacement microscope for either a ScienScope or Luxo product. Given the competitors' body, eyepieces and aux lens, it is now easy to find the comparable Aven scope.

# Scienscope

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	10	0.3	Mag:	2-13.5
			FOV(mm)	109.5-16.3
			WD(mm)	287

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	10	0.4	Mag:	2.7-18
			FOV(mm)	82.1-12.2
			WD(mm)	217

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	10	0.5	Mag:	3.4-22.5
			FOV(mm)	65.7-9.8
			WD(mm)	177

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	10	0.75	Mag:	5-33.8
			FOV(mm)	43.8-6.5
			WD(mm)	177

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	10	1	Mag:	6.7-45
			FOV(mm)	32.8-4.9
			WD(mm)	100

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	10	1.5	Mag:	10.1-67.5
			FOV(mm)	21.9-3.3
			WD(mm)	47

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	10	2	Mag:	13.4-90
			FOV(mm)	16.4-2.4
			WD(mm)	26

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	15	0.3	Mag:	3-20.3
			FOV(mm)	79.6-11.9
			WD(mm)	287

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	15	0.4	Mag:	4.0-27
			FOV(mm)	59.7-8.9
			WD(mm)	217

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	15	0.5	Mag:	5-33.8
			FOV(mm)	47.8-7.1
			WD(mm)	177

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	15	0.75	Mag:	7.5-50.6
			FOV(mm)	31.8-4.7
			WD(mm)	177

# Aven

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.5	Mag:	3.35-25
			FOV(mm)	68.9-9.2
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.5	Mag:	3.35-25
			FOV(mm)	68.9-9.2
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.5	Mag:	3.35-25
			FOV(mm)	68.9-9.2
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.75	Mag:	5-37.5
			FOV(mm)	45.7-6.1
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	1	Mag:	6.7-50
			FOV(mm)	34.3-4.6
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	1.6	Mag:	10.72-80
			FOV(mm)	21.4-2.8
			WD(mm)	50

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	2	Mag:	13.4-100
			FOV(mm)	17.1-2.3
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.75	Mag:	7.53-56.25
			FOV(mm)	29.8-4.0
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	15	1	Mag:	10.1-67.5
			FOV(mm)	23.9-3.6
			WD(mm)	100

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	15	1.5	Mag:	15.1-101.3
			FOV(mm)	15.9-2.4
			WD(mm)	47

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	15	2	Mag:	20.1-135
			FOV(mm)	9.0-1.3
			WD(mm)	26

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	20	0.3	Mag:	4.0-27.0
			FOV(mm)	59.7-8.9
			WD(mm)	287

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	20	0.4	Mag:	5.4-36
			FOV(mm)	44.8-6.7
			WD(mm)	217

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	20	0.5	Mag:	6.7-45
			FOV(mm)	35.8-5.3
			WD(mm)	177

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	20	0.75	Mag:	10.1-67.5
			FOV(mm)	23.9-3.6
			WD(mm)	177

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	20	1	Mag:	13.4-90
			FOV(mm)	17.9-2.7
			WD(mm)	100

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	20	1.5	Mag:	20.1-135
			FOV(mm)	11.9-1.8
			WD(mm)	47

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	20	2	Mag:	26.8-180
			FOV(mm)	6.7-1
			WD(mm)	26

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	25	0.3	Mag:	5-33.8
			FOV(mm)	44.8-6.7
			WD(mm)	287

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	25	0.4	Mag:	6.7-45
			FOV(mm)	33.6-5.0
			WD(mm)	217

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	1	Mag:	10.05-75
			FOV(mm)	22.3-3
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	1.6	Mag:	16.08-120
			FOV(mm)	16-1.8
			WD(mm)	50

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	2	Mag:	20.1-150
			FOV(mm)	11.1-1.5
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.75	Mag:	10.05-75
			FOV(mm)	22.6-3
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	1	Mag:	13.4-100
			FOV(mm)	17-2.2
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ_50	20	1.6	Mag:	22.4-160
			FOV(mm)	10.6-1.4
			WD(mm)	50

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ_50	20	2	Mag:	26.8-200
			FOV(mm)	8.5-1.1
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	25	0.5	Mag:	8.4-56.3
			FOV(mm)	26.9-4.0
			WD(mm)	177

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	25	0.75	Mag:	12.6-84.4
			FOV(mm)	17.9-2.7
			WD(mm)	177

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	25	1	Mag:	16.8-112.5
			FOV(mm)	13.4-2
			WD(mm)	100

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	25	1.5	Mag:	25.1-168.8
			FOV(mm)	9-1.3
			WD(mm)	47

Body Type	Eyepiece	Aux Lens	Specifications	
SSZ	25	2	Mag:	40-225
			FOV(mm)	5.2-.75
			WD(mm)	26

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	10	0.5	Mag:	4.0-25.0
			FOV(mm)	55-8.8
			WD(mm)	211

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	10	1	Mag:	8.0-50
			FOV(mm)	27.5-4.4
			WD(mm)	115

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	10	2	Mag:	16.0-100
			FOV(mm)	13.8-2.2
			WD(mm)	43.5

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	15	0.5	Mag:	6-37.5
			FOV(mm)	40-6.4
			WD(mm)	211

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	15	1	Mag:	12.0-75
			FOV(mm)	20-3.2
			WD(mm)	115

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	15	2	Mag:	24.0-150
			FOV(mm)	10-1.6
			WD(mm)	43.5

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	20	0.5	Mag:	5.0-50
			FOV(mm)	31.2-5
			WD(mm)	211

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.75	Mag:	7.53-56.25
			FOV(mm)	29.8-4
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.75	Mag:	10.05-75
			FOV(mm)	22.6-3
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
DSZ-44	15	1.6	Mag:	24-105.6
			FOV(mm)	9.63-2.1
			WD(mm)	45

Body Type	Eyepiece	Aux Lens	Specifications	
DSZ-70	15	1.6	Mag:	48-168
			FOV(mm)	4.6-1.3
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
DSZ-70	20	1.6	Mag:	64-224
			FOV(mm)	3.5-1
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.5	Mag:	3.35-25
			FOV(mm)	68.9-9.2
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	1	Mag:	6.7-50
			FOV(mm)	34.3-4.6
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	2	Mag:	13.4-100
			FOV(mm)	17.1-2.3
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	1	Mag:	10.0-75
			FOV(mm)	22.3-3
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	2	Mag:	20.1-150
			FOV(mm)	11.1-1.5
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240



Body Type	Eyepiece	Aux Lens	Specifications	
NZ	20	1	Mag:	16.0-100
			FOV(mm)	15.6-2.5
			WD(mm)	115

Body Type	Eyepiece	Aux Lens	Specifications	
NZ	20	2	Mag:	32.0-200
			FOV(mm)	7.8-1.3
			WD(mm)	43.5

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	1	Mag:	13.4-100
			FOV(mm)	17-2.2
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ_50	20	2	Mag:	26.8-200
			FOV(mm)	8.5-1.1
			WD(mm)	41

# LUXO

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	10	0.4	Mag:	2.6-18
			FOV(mm)	78-11
			WD(mm)	220

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	10	0.5	Mag:	3.3-22.5
			FOV(mm)	61.5-8.9
			WD(mm)	150

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	10	0.75	Mag:	4.9-33.8
			FOV(mm)	41-5.9
			WD(mm)	120

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	10	1	Mag:	6.5-45
			FOV(mm)	31-4.5
			WD(mm)	95

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	10	1.5	Mag:	10-67.5
			FOV(mm)	20.5-3
			WD(mm)	45

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	10	2	Mag:	13-90
			FOV(mm)	15.4-2.2
			WD(mm)	25

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	15	0.4	Mag:	3.9-27
			FOV(mm)	62.5-8.7
			WD(mm)	220

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	15	0.5	Mag:	5-33.8
			FOV(mm)	49.2-7.2
			WD(mm)	150

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	15	0.75	Mag:	7.3-50.6
			FOV(mm)	32.8-4.7
			WD(mm)	120

# AVEN

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.5	Mag:	3.35-25
			FOV(mm)	68.9-9.2
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.5	Mag:	3.35-25
			FOV(mm)	68.9-9.2
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	0.75	Mag:	5-37.5
			FOV(mm)	45.7-6.1
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	1	Mag:	6.7-50
			FOV(mm)	34.3-4.6
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	1.6	Mag:	10.72-80
			FOV(mm)	21.4-2.8
			WD(mm)	50

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	10	2	Mag:	13.4-100
			FOV(mm)	17.1-2.3
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.75	Mag:	7.53-56.25
			FOV(mm)	29.8-4.0
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	15	1	Mag:	10-67.5
			FOV(mm)	24.6-3.6
			WD(mm)	95

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	1	Mag:	10.05-75
			FOV(mm)	22.3-3
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	15	1.5	Mag:	14.6-101
			FOV(mm)	16.4-2.4
			WD(mm)	45

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	1.6	Mag:	16.08-120
			FOV(mm)	16-1.8
			WD(mm)	50

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	15	2	Mag:	19.5-135
			FOV(mm)	12.3-1.8
			WD(mm)	25

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	2	Mag:	20.1-150
			FOV(mm)	11.1-1.5
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	20	0.4	Mag:	5.2-36
			FOV(mm)	51.0-7
			WD(mm)	220

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	20	0.5	Mag:	6.5-45
			FOV(mm)	40-5.8
			WD(mm)	150

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	20	0.75	Mag:	10-67.5
			FOV(mm)	26.7-3.9
			WD(mm)	120

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.75	Mag:	10.05-75
			FOV(mm)	22.6-3
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	20	1	Mag:	13-90
			FOV(mm)	20-2.9
			WD(mm)	95

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	1	Mag:	13.4-100
			FOV(mm)	17-2.2
			WD(mm)	108

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	20	1.5	Mag:	19.5-135
			FOV(mm)	13.3-1.9
			WD(mm)	45

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ_50	20	1.6	Mag:	22.4-160
			FOV(mm)	10.6-1.4
			WD(mm)	50

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	20	2	Mag:	28-180
			FOV(mm)	10-1.4
			WD(mm)	25

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ_50	20	2	Mag:	26.8-200
			FOV(mm)	8.5-1.1
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	25	0.4	Mag:	6.5-45
			FOV(mm)	42.5-6
			WD(mm)	220

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	25	0.5	Mag:	8.1-56
			FOV(mm)	37-5.4
			WD(mm)	150

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	15	0.75	Mag:	7.53-56.25
			FOV(mm)	29.8-4
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	25	0.75	Mag:	12-2-84.4
			FOV(mm)	24.6-36
			WD(mm)	120

Body Type	Eyepiece	Aux Lens	Specifications	
SPZ-50	20	0.75	Mag:	10.05-75
			FOV(mm)	22.6-3
			WD(mm)	132

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	25	1	Mag:	16.3-112.5
			FOV(mm)	18.5-2.7
			WD(mm)	95

Body Type	Eyepiece	Aux Lens	Specifications	
DSZ-44	15	1.6	Mag:	24-105.6
			FOV(mm)	9.63-2.1
			WD(mm)	45

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	25	1.5	Mag:	24.4-168.8
			FOV(mm)	12.3-1.8
			WD(mm)	45

Body Type	Eyepiece	Aux Lens	Specifications	
DSZ-70	15	1.6	Mag:	48-168
			FOV(mm)	4.6-1.3
			WD(mm)	41

Body Type	Eyepiece	Aux Lens	Specifications	
System 250/350	25	2	Mag:	32.6-225
			FOV(mm)	9.3-1.3
			WD(mm)	25

Body Type	Eyepiece	Aux Lens	Specifications	
DSZ-70	20	1.6	Mag:	64-224
			FOV(mm)	3.5-1
			WD(mm)	41

# LUXO 23MM

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	10	0.5	Mag:	3.5-22.5
			FOV(mm)	65.7-10.2
			WD(mm)	195

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	10	0.7	Mag:	4.9-31.5
			FOV(mm)	46.9-7.3
			WD(mm)	145

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	10	1	Mag:	7.0-45
			FOV(mm)	32.8-5.1
			WD(mm)	118

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	10	2	Mag:	14-90
			FOV(mm)	16.4-2.6
			WD(mm)	35

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	15	0.5	Mag:	5-33.8
			FOV(mm)	48.6-7.6
			WD(mm)	195

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	15	0.7	Mag:	7.4-47.2
			FOV(mm)	37.4-5.4
			WD(mm)	145

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	15	1	Mag:	10.5-67.5
			FOV(mm)	24.3-3.8
			WD(mm)	118

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	15	2	Mag:	21-135
			FOV(mm)	12.1-1.9
			WD(mm)	35

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	20	0.5	Mag:	7.0-45
			FOV(mm)	40-6.2
			WD(mm)	195

# AVEN

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	10	0.5	Mag:	3.35-25
			FOV(mm)	68.9-9.2
			WD(mm)	240

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	10	0.75	Mag:	5-37.5
			FOV(mm)	45.7-6.1
			WD(mm)	132

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	10	1	Mag:	6.7-50
			FOV(mm)	34.3-4.6
			WD(mm)	108

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	10	2	Mag:	13.4-100
			FOV(mm)	17.1-2.3
			WD(mm)	41

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	15	0.5	Mag:	5.02-37.5
			FOV(mm)	44.7-6
			WD(mm)	240

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	15	0.75	Mag:	7.53-56.25
			FOV(mm)	29.8-4.0
			WD(mm)	132

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	15	1	Mag:	10.05-75
			FOV(mm)	22.3-3
			WD(mm)	108

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	15	2	Mag:	20.1-150
			FOV(mm)	11.1-1.5
			WD(mm)	41

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	20	0.5	Mag:	6.7-50
			FOV(mm)	34-4.5
			WD(mm)	240

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	20	0.7	Mag:	9.8-63
			FOV(mm)	28.6-4.4
			WD(mm)	145

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	20	0.75	Mag:	10.05-75
			FOV(mm)	22.6-3
			WD(mm)	132

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	20	1	Mag:	14.0-90
			FOV(mm)	20-3.1
			WD(mm)	118

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	20	1	Mag:	13.4-100
			FOV(mm)	17-2.2
			WD(mm)	108

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	20	2	Mag:	28-180
			FOV(mm)	10-1.6
			WD(mm)	35

Body Type	Eyepiec	Aux Len	Specifications	
SPZ_50	20	2	Mag:	26.8-200
			FOV(mm)	8.5-1.1
			WD(mm)	41

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	25	0.5	Mag:	10.5-67.5
			FOV(mm)	25.7-4
			WD(mm)	195

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	20	0.75	Mag:	10.05-75
			FOV(mm)	22.6-3
			WD(mm)	132

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	25	0.7	Mag:	14.7-94.5
			FOV(mm)	18.4-2.9
			WD(mm)	145

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	20	1	Mag:	13.4-100
			FOV(mm)	17.2-2
			WD(mm)	108

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	25	1	Mag:	21-135
			FOV(mm)	12.9-2
			WD(mm)	118

Body Type	Eyepiec	Aux Len	Specifications	
SPZ-50	20	2	Mag:	20.1-150
			FOV(mm)	11.1-1.5
			WD(mm)	41

Body Type	Eyepiec	Aux Len	Specifications	
23mm Body	25	2	Mag:	42-270
			FOV(mm)	6.4-1
			WD(mm)	35

Body Type	Eyepiec	Aux Len	Specifications	
DSZ-70	20	1.6	Mag:	64-224
			FOV(mm)	3.5-1
			WD(mm)	41