



ORDER DESCRIPTION

1. Object of the contract

The subject of the order is the supply of

No	Product name	Qty
1	optical fiber	6 pcs
2	fiber adapter plate	3 pcs
3	plate for fiber optic holder	3 pcs.
4	3-axis microblock	3 pcs.
5	3" parabolic mirror	1 pc.
6	3" parabolic mirror mount	1 pc.
7	breadboard 150x450	2 pcs.
8	2" parabolic mirror	1 pc.
9	2" parabolic mirror mount	1 pc.
10	breadboard 150x300	1 pc.
11	rail carriage	2 pcs.
12	rotary table	1 pc.
13	motion controller	1 pc.
14	4" mirror	1 pc.
15	gimbal breadboard	1 pc.
16	gimbal tripod	1 pc.
17	4" parabolic mirror	1 pc.
18	4" parabolic mirror mount	3 pcs.
19	red pigtail laser	1 pc.
20	green pigtail laser	1 pc.
21	shear plate	1 pc.
22	breadboard 50x75	2 pcs.
23	breadboard 75x100	2 pcs.
24	differential adjuster	1 pc.
25	bearing balls	100 pcs.
26	M6 to M4 adapter	6 pcs.
27	16 to 30 mm cage plate adapter	2 pcs.
28	SM1 and SM2-threaded round cage plate	2 pcs.

2. Parameters

Product name	Parameter	Specification
optical fiber	material	InF3
	fiber type	single mode
	spectral range	3,2 - 5,5 μm



fiber adapter plate	interface	FC/PC
	length	1m
	interface	FC/PC
	external threads	SM1
plate for fiber optic holder	narrow key	2 mm
	plate thickness without connector	2,5 mm
	internal thread	SM1
	angle range	$\pm 4^\circ$
3-axis microblock	adjusting thread	1/4"-80
	number of adjusting screws	3
	mounting thread	M4
	plate height	49,9 mm
3" parabolic mirror	plate width	49,9 mm
	thickness with screws (nominal)	42,6 mm
	range of motion	4 mm
	accuracy	50 $\mu\text{m}/\text{rev}$
3" parabolic mirror	number of axes	3 (XYZ)
	number of mounting holes M2x0.4	4
	number of mounting holes M3x0.5	16
	number of mounting holes M4x0.7	9
3" parabolic mirror	height	62,5
	base dimensions	77,5 x 77,5 mm
	mounting plate dimensions	60,0 x 60,0 mm
	diameter	3" (76,20 mm)
3" parabolic mirror	clear aperture	90%
	focal length	152,4 mm $\pm 1\%$
	mirror shape	parabolic
	axis deviation	90°
3" parabolic mirror	coating	gold
	mirror roughness	$< 100 \text{ \AA}$
	reflection in the range of 2-12 μm	$> 98\%$
	mounting holes	
3" parabolic mirror	quantity	3
	spacing	120°
	thread	8-32
	diameter	57,15 mm
3" parabolic mirror mount	mounting hole for optics	3"
	angle range	$\pm 4^\circ$
	adjusting thread	1/4"-80
	number of adjusting screws	2
3" parabolic mirror mount	mounting thread	M4
	optics locking screw	
	material	nylon
	thread	8-32
3" parabolic mirror mount	height	99,3 mm



breadboard 150x450	width	99,3 mm
	thickness with screws (nominal)	51,2 mm
	length	450 mm
	width	150 mm
	thickness	12,7 mm
	holes based on a mesh with a side length of	25 mm
2" parabolic mirror	thread in holes	M6 x 1,0 mm
	diameter	2" (50,8 mm)
	clear aperture	90%
	focal length	101,6 mm $\pm 1\%$
	mirror shape	parabolic
	axis deviation	90°
	coating	aluminum
	mirror roughness	<100 Å
	reflection in the range of 0,45-2 μm	>97%
	reflection in the range of 2-12 μm	>95%
	mounting holes	
	quantity	3
	spacing	120°
	thread	8-32
	diameter	15,9 mm
2" parabolic mirror mount	mounting hole for optics	51,1 mm
	angle range	$\pm 4^\circ$
	adjusting thread	1/4"-80
	number of adjusting screws	3
	mounting thread	M4
	optics locking screw	
	material	nylon
	thread	8-32
	height	77,5 mm
	width	77,5 mm
breadboard 150x300	thickness with screws (nominal)	46,2 mm
	length	300 mm
	width	150 mm
	thickness	12,7 mm
	holes based on a mesh with a side length of	25 mm
	thread in holes	M6 x 1,0 mm
rail carriage	width	57,9 mm
	length (nominal)	59,9 mm
	thickness	11,2 mm
	number of M6x1.0 mounting holes	6
	number of M4x0.7 mounting holes	11
	number of holes for M3 screws	4
	compatibility with 66 mm rail	



rotary table	rotary table diameter	300 mm
	rotation range	360°
	type of gearbox in the motor	worm
	gear ratio	576:1
	resolution (1/8 micro step)	0,0004°
	repeatability	0,00156°
	mounting holes on the rotary plate	44xM6
	operating temperature	from -20°C to 40°C
	dimensions (with motor)	335 x 373,3 mm
	thickness	61 mm
motion controller	compatibility with rotary platform	
	number of supported axes	2
	supply voltage	220V
	micro step size configuration	1/2; 1/4; 1/8
4" mirror	diameter	101,6 mm
	effective diameter (min)	91 mm
	thickness	19,1 ±1,5 mm
	surface quality	60-40
	surface flatness	$\lambda/10$ (632,8 nm)
	coating	gold
	reflection in the range of 2-10 μm	>96%
gimbal breadboard	length	200 mm
	width	200 mm
	thickness	12,7 mm
	holes based on a mesh with a side length of	25 mm
	thread in holes	M6 x 1,0 mm
gimbal stripod	material	aluminum
	maximum working height	300 cm
	height when assembled	122 cm
	weight	7,2 kg
	height adjustment range	40 cm
	mounting thread	5/8"
	tripod leg spacing limitation	
4" parabolic mirror	diameter	4" (101,60 mm)
	clear aperture	90%
	focal length	152,4 mm ±1%
	mirror shape	parabolic
	axis deviation	90°
	coating	gold
	mirror roughness	<100 Å
	reflection in the range of 2-12 μm	>98%
	mounting holes	
	quantity	3
	spacing	120°



4" parabolic mirror mount	thread	8-32
	diameter	57,15 mm
	mounting hole for optics	4" (101,6 mm)
	angle range	±4°
	adjusting thread	1/4"-80
	number of adjusting screws	2
	mounting thread	M4
	optics locking screw	
	material	nylon
	thread	8-32
	height	132,8 mm
	width	132,8 mm
	thickness with screws (nominal)	51,5 mm
red pigtail laser	wavelength	632 nm
	optical power	30 mW
	light transmission	single mode
	connector type	FC/APC
	fiber core diameter	9 µm
	fiber length	1 m
	numerical aperture	0,13
	includes controller	
	includes heat sink	
green pigtail laser	wavelength	520 nm
	optical power	60 mW
	light transmission	single mode
	connector type	FC/APC
	fiber core diameter	9 µm
	fiber length	1 m
	numerical aperture	0,13
shear plate	active aperture diameter	75 mm
	operating wavelength	633 nm
	optical element material	N-BK7
	optical surfaces without coatings	uncoated element)
	housing	frame made of anodized aluminum
	optical wedge specifications	wedge angle for 633 nm, producing 5–6 interference fringes
breadboard 50x75	length	50 mm
	width	75 mm
	thickness	9,5 mm
	holes based on a mesh with a side length of	12,5 mm
	thread in holes	9 x M4 x 0,7 mm
	thread in holes	4 x M6 x 1,0 mm
	length	75 mm



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breadboard 75x100	width	100 mm
	thickness	9,5 mm
	holes based on a mesh with a side length of	12,5 mm
	thread in holes	23 x M4 x 0,7 mm
	thread in holes	8 x M6 x 1,0 mm
differential adjuster	range of motion	8 mm
	range of motion with increased accuracy	300 µm
	turns per revolution	500 µm
	turns per revolution with increased accuracy	50 µm
	resolution	0,5 µm
	mounting pin diameter	9,5 mm
bearing balls	mounting pin length	9,8 mm
	diameter	8 mm
M6 to M4 adapter	material	bearing steel
	length	14,5 mm
	M6x1.0 thread length	8,9 mm
	M4x0.7 thread length	4,1 mm
	flat profile width	1,3 mm
16 to 30 mm cage adapter plate	flat profile depth	1,3 mm
	length	40,6 mm
	width	40,6 mm
	thickness	8,9 mm
	symmetrical spacing of 4 Ø6 holes	30 mm
SM1 and SM2-threaded round cage plate	symmetrical spacing of 4 Ø4 holes	16 mm
	external thread	SM2 (Ø2,035-40)
	internal thread	SM1 (Ø1,035-40)
	thickness	8,9 mm
	symmetrical spacing of 4 Ø6 holes	30 mm