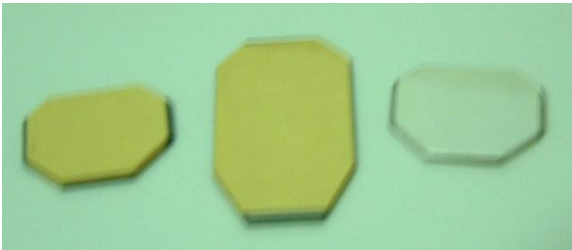


Scan Mirrors

The scan mirrors are rectangular mirror of light weight. They are to be used for high speed two-axis laser scanning system. The dimensions of each mirror have been calculated to allow for scanning of a laser beam with no beam spill over at the extremis of scan. Y mirror is larger than X mirror since the beam on the Y mirror is reflected from the X mirror. The mirrors have high reflectivities of 99.7% or above and so may be safe at high powers.

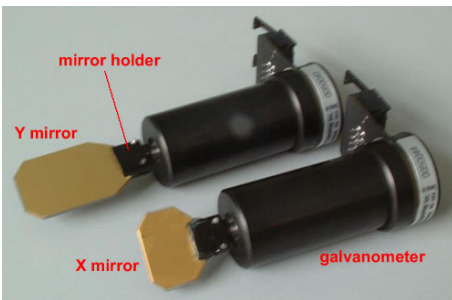
The high-reflectivity film is coated on the mirror surface. Gold coating is used on silicon at 10.6um, dielectric coating is used on fused silicon at UV range (344nm to 244nm), dielectric coating is also used on BK7/fused silicon at green or visible range (650nm/532nm), dielectric coating or silver coating is used on Si/BK7/FS for Nd:YAG or fiber lasers.



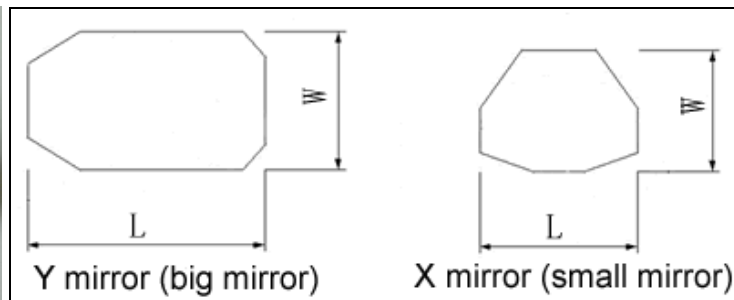
Scan mirror



Scan mirror with holder



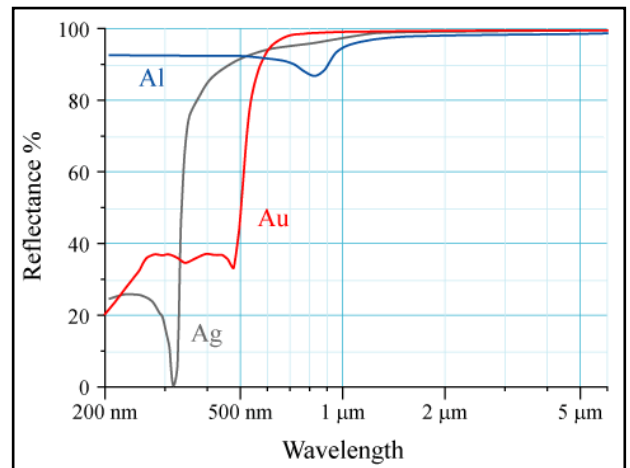
Mounted scan mirror with galvo



Model Description: SMWxxxx-xxA-LxWxT-Dx

- SMW: laser scan mirror
- xxxx: laser wavelength, 1064nm, 532nm, 355nm or 10.6um
- xx: maximum allowed input beam diameter (mm)
- A: X mirror or Y mirror
- LxWxT: dimension, length x width x thickness (mm)
- Dx: mounted scan mirror with holder, x is the hole diameter of the holder in mm

Example: SMW1064-12X-21x16.8x2-D5, mounted X mirror at 1064nm wavelength, mirror dimension 21x16x22mm, hole diameter of mirror holder 5mm, dielectric coating at 1064nm



1. Scan Mirrors (10.6um, CO2 laser)

- R>99.8@10.6um and R>80%@630-650nm
- Substrate material: Si

Part number	Wavelength um/nm	Max. input beam dia. mm	Dimension mm	Substrate
SMW10.6/650-7X-13x12x1	10.6/650	7	13x12x1	Si
SMW10.6/650-7Y-16x10x1	10.6/650	7	16x10x1	Si

SMW10.6/650-8X-15x12.2x1	10.6/650	8	15x12.2x1	Si
SMW10.6/650-8Y-20.5x12.8x1	10.6/650	8	20.5x12.8x1	Si
SMW10.6/650-8X-15.7x11x1.5	10.6/650	8	15.7x11x1.5	Si
SMW10.6/650-8Y-21x12.2x1.5	10.6/650	8	21x12.2x1.5	Si
SMW10.6/650-8.5X-14.8x11.4x1.6	10.6/650	8.5	14.8x11.4x1.6	Si
SMW10.6/650-8.5Y-20.2x12.3x1.6	10.6/650	8.5	20.2x12.3x1.6	Si
SMW10.6/650-10X-19x15.5x1.5	10.6/650	10	19x15.5x1.5	Si
SMW10.6/650-10Y-26.5x17x1.5	10.6/650	10	26.5x17x1.5	Si
SMW10.6/650-10X-16x13.2x1.5	10.6/650	10	16x13.2x1.5	Si
SMW10.6/650-10Y-22x14x1.5	10.6/650	10	22x14x1.5	Si
SMW10.6/650-10X-18.4x13x2	10.6/650	10	18.4x13x2	Si
SMW10.6/650-10Y-23.3x15.9x2	10.6/650	10	23.3x15.9x2	Si
SMW10.6/650-10X-18.7x14.6x1.22	10.6/650	10	18.7x14.6x1.22	Si
SMW10.6/650-10Y-23.1x15.9x1.78	10.6/650	10	23.1x15.9x1.78	Si
SMW10.6/650-10X-12.7x12.5x1	10.6/650	10	12.7x12.5x1	Si
SMW10.6/650-10Y-18x12.7x1	10.6/650	10	18x12.7x1	Si
SMW10.6/650-12X-21x16.8x2	10.6/650	12	21x16.8x2	Si
SMW10.6/650-12Y-30x19x2	10.6/650	12	30x19x2	Si
SMW10.6/650-12X-21x16.8x2	10.6/650	12	21x16.8x2	Si
SMW10.6/650-12Y-26x17x2	10.6/650	12	26x17x2	Si
SMW10.6/650-12X-24x16.5x3	10.6/650	12	24x16.5x3	Si
SMW10.6/650-12Y-30x21.5x3	10.6/650	12	30x21.5x3	Si
SMW10.6/650-12X-21.8x17x2	10.6/650	12	21.8x17x2	Si
SMW10.6/650-12Y-30x19x2	10.6/650	12	30x19x2	Si
SMW10.6/650-12X-24x16x2.9	10.6/650	12	24x16x2.9	Si
SMW10.6/650-12Y-30.8x21.5x2.9	10.6/650	12	30.8x21.5x2.9	Si
SMW10.6/650-14X-25x19x2	10.6/650	14	25x19x2	Si
SMW10.6/650-14Y-32x21x2	10.6/650	14	32x21x2	Si
SMW10.6/650-15X-27x20x2.5	10.6/650	15	27x20x2.5	Si
SMW10.6/650-15Y-37.6x22.6x2.5	10.6/650	15	37.6x22.6x2.5	Si
SMW10.6/650-16X-27x20x2.5	10.6/650	16	27x20x2.5	Si
SMW10.6/650-16Y-37.5x22.5.2.5	10.6/650	16	37.5x22.5.2.5	Si
SMW10.6/650-18X-27x23x2.5	10.6/650	18	27x23x2.5	Si
SMW10.6/650-18Y-40x26.2x2.5	10.6/650	18	40x26.2x2.5	Si
SMW10.6/650-20X-35x25x2	10.6/650	20	35x25x2	Si
SMW10.6/650-20Y-35x30x2	10.6/650	20	35x30x2	Si
SMW10.6/650-20X-37x25.5x3	10.6/650	20	37x25.5x3	Si
SMW10.6/650-20Y-47x31x3	10.6/650	20	47x31x3	Si
SMW10.6/650-20X-35.6x25x4	10.6/650	20	35.6x25x4	Si
SMW10.6/650-20Y-46x31x4	10.6/650	20	46x31x4	Si
SMW10.6/650-20X-37x25x3	10.6/650	20	37x25x3	Si
SMW10.6/650-20Y-47.5x31x3	10.6/650	20	47.5x31x3	Si
SMW10.6/650-20X-35.7x25.5x5.5	10.6/650	20	35.7x25.5x5.5	Si
SMW10.6/650-20Y-48.5x32x4.1	10.6/650	20	48.5x32x4.1	Si
SMW10.6/650-20X-37x25x3	10.6/650	20	37x25x3	Si
SMW10.6/650-20Y-47x31x3	10.6/650	20	47x31x3	Si
SMW10.6/650-25X-45.2x30.1x2.4	10.6/650	25	45.2x30.1x2.4	Si
SMW10.6/650-25Y-56.5x38.94x2.4	10.6/650	25	56.5x38.94x2.4	Si
SMW10.6/650-30X-57x37.8x4	10.6/650	30	57x37.8x4	Si
SMW10.6/650-30Y-67x45x4	10.6/650	30	67x45x4	Si
SMW10.6/650-30X-54x35x3.5	10.6/650	30	54x35x3.5	Si
SMW10.6/650-30Y-62x43x3.5	10.6/650	30	62x43x3.5	Si
SMW10.6/650-30X-55x33x4	10.6/650	30	55x33x4	Si
SMW10.6/650-30Y-68.5x46x4	10.6/650	30	68.5x46x4	Si
SMW10.6/650-30X-55x34x4	10.6/650	30	55x34x4	Si
SMW10.6/650-30Y-63x43x4	10.6/650	30	63x43x4	Si
SMW10.6/650-30X-55x34x3	10.6/650	30	55x34x3	Si
SMW10.6/650-30Y-63x43x3	10.6/650	30	63x43x3	Si
SMW10.6/650-40X-72x49x5	10.6/650	40	72x49x5	Si
SMW10.6/650-40Y-91x61x4.5	10.6/650	40	91x61x4.5	Si

2. Scan Mirrors (1064nm)

- R>99@1064nm and R>80%@650nm
- Substrate material: Si or K9

Part number	Wavelength nm	Max. input beam dia. mm	Dimension mm	Substrate
SMW1064/650-8X-12x10x1	1064/650	8	12x10x1	Si
SMW1064/650-8Y-16x11x1	1064/650	8	16x11x1	Si
SMW1064/650-10X18.4x13x2	1064/650	10	18.4x13x2	Si
SMW1064/650-10Y-23.3x15.9x2	1064/650	10	23.3x15.9x2	Si
SMW1064/650-10X-18x13x1.5	1064/650	10	18x13x1.5	Si
SMW1064/650-10Y-24.3x15.7x1.5	1064/650	10	24.3x15.7x1.5	Si
SMW1064/650-10X-18.3x13x1.9	1064/650	10	18.3x13x1.9	K9
SMW1064/650-10Y-23.2x16x1.9	1064/650	10	23.2x16x1.9	K9
SMW1064/650-10X-18.4x13x1.5	1064/650	10	18.4x13x1.5	Si
SMW1064/650-10Y-23.3x15.9x1.5	1064/650	10	23.3x15.9x1.5	Si
SMW1064/650-16X-28x20x2	1064/650	16	28x20x2	K9
SMW1064/650-16Y-39x23x2	1064/650	16	39x23x2	K9
SMW1064/650-18X-27x23x2.5	1064/650	18	27x23x2.5	Si
SMW1064/650-18Y-40x26x2.5	1064/650	18	40x26x2.5	Si
SMW1064/650-20X-37x24x2.5	1064/650	20	37x24x2.5	K9
SMW1064/650-20Y-49x31x2.5	1064/650	20	49x31x2.5	K9
SMW1064/650-20X-35.7x25.5x5.5	1064/650	20	35.7x25.5x5.5	Si
SMW1064/650-20Y-48.5x32x4.1	1064/650	20	48.5x32x4.1	Si

3. Scan Mirrors (532nm)

- R>99@532nm (and R>80%@650nm)
- Substrate material: Si

Part number	Wavelength nm	Max. input beam dia. mm	Dimension mm	Substrate
SMW532-10X-18.3x13x2	532	10	18.3x13x2	Si
SMW532-10Y-23.2x16x2	532	10	23.2x16x2	Si
SMW532/650-15X-27x20x2.5	532/650	15	27x20x2.5	Si
SMW532/650-15Y-37.6x22.6x2.5	532/650	15	37.6x22.6x2.5	Si

4. Scan Mirrors (UV wavelength)

- R>99@248nm (or@355nm) and R>80%@650nm
- Substrate material: Si

Part number	Wavelength nm	Max. input beam dia. mm	Dimension mm	Substrate
SMW248/650-30X-54x35x4	248/650	30	54x35x4	Si
SMW248/650-30Y-62x43x4	248/650	30	62x43x4	Si
SMW355/650-10X-18x13x1.5	355/650	10	18x13x1.5	Si
SMW355/650-10Y-24.3x15.7x1.5	355/650	10	24.3x15.7x1.5	Si
SMW355/650-10X-27x20x2.5	355/650	15	27x20x2.5	Si
SMW355/650-10Y-37.6x22.6x2.5	355/650	15	37.6x22.6x2.5	Si

Custom-made scan mirrors are available and please contact us for more information.