Optics

Z-LASER



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Dot matrixes

*	Product name	Article code	Product description	Compatible with
	2x2+1 dot matrix	2x2+1p	2x2+1 dot matrix Angle: 16.1°x16.1° @ 635 nm Projection size in 100 mm: 28 x 28 mm	ZM12 ZM18 ZX20
*	17x17 dot matrix	17x17p14	17x17 dot matrix Angle: 14.6°x14.6° @ 635 nm Projection size in 100 mm: 26 x 26 mm	ZM12 ZM18 ZX20
*	11x11 dot matrix	11x11p28	11x11 dot matrix Angle: 28°x28° @ 635 nm Projection size in 100 mm: 50 x 50 mm	ZM12 ZM18 ZX20
*	13x13 dot matrix	13x13p4	13x13 dot matrix Angle: 4°x4° @ 635 nm Projection size in 100 mm: 7 x 7 mm	ZM12 ZM18 ZX20
*	17x17 dot matrix	17x17p5	17x17 dot matrix Angle: 5°x5° @ 635 nm Projection size in 100 mm: 9 x 9 mm	ZM12 ZM18 ZX20
*	21x21 dot matrix	21x21p5	21x21 dot matrix Angle: 5°x5° @ 635 nm Projection size in 100 mm: 9 x 9 mm	ZM12 ZM18 ZX20
*	16x16 dot matrix	16x16p5	16x16 dot matrix Angle: 5°x5° @ 635 nm Projection size in 100 mm: 9 x 9 mm	ZM12 ZM18 ZX20
*	51x51 dot matrix	51x51p22	51x51 dot matrix Angle: 22°x22° @ 635 nm Projection size in 100 mm: 39 x 39 mm	ZM12 ZM18 ZX20
*	101 101	101,4045	101,401 data matri	78.44.3
	101x101 dot matrix	101x101p5	101x101 dot matrix Angle: 5.2°x5.2° @ 660 nm Projection size in 100 mm: 9.1 x 9.1 mm	ZM12 ZM18 ZX20

Parallel lines

		Product name	Article code	Product description	Compatible with
		5 parallel lines	5L6	5 parallel lines Angle: 6°x28.8° @ 635 nm Projection size in 100 mm: 10.4 x 51.2 mm	ZM12 ZM18 ZX20
	*				
		7 parallel lines	7L5	7 parallel lines Angle: 5°x7° @ 635 nm Projection size in 100 mm: 8.7 x 12.2 mm	ZM12 ZM18 ZX20
•					
	*	3 parallel lines	3L6	3 parallel lines Angle: 6.2°x30.0° @ 660 nm Projection size in 100 mm: 10.8 x 56.6 mm	ZM12 ZM18 ZX20
•					
	*	81 parallel lines	81L64	81 parallel lines Angle: 63.9°x50.2° @ 650 nm Projection size in 100 mm: 128.8 x 93.6 mm	ZM12 ZM18 ZX20
		15 parallel lines	15L24g	15 parallel lines Angle: 23.8°x28.2° @ 520 nm Projection size in 100 mm: 8.7 x 12.2 mm	ZM12 ZM18 ZX20
	*	5 parallel lines	5L17	5 parallel lines Angle: 17°x17° @ 635 nm	ZM12 ZM18
				Projection size in 100 mm: 29.9 x 29.9 mm	ZX20

Parallel lines

	Product name	Article code	Product description	Compatible with
*	7 parallel lines	7L21	7 parallel lines Angle: 21.4°x21.4° @ 635 nm Projection size in 100 mm: 38 x 38 mm	ZM12 ZM18 ZX20
*				
	11 parallel lines	11L30	11 parallel lines Angle: 30°x30° @ 635 nm Projection size in 100 mm: 54 x 54 mm	ZM12 ZM18 ZX20
	25 parallel lines	25L27	25 parallel lines Angle: 27°x27° @ 635 nm Projection size in 100 mm: 48 x 48 mm	ZM12 ZM18 ZX20
*	21 parallel lines	21L7	21 parallel lines Angle: 7°x7° @ 635 nm Projection size in 100 mm: 12 x 12 mm	ZM12 ZM18 ZX20
*	41 parallel lines	41L53	41 parallel lines Angle: 54.9°x42.6° @ 660 nm Projection size in 100 mm: 104.0 x 78.0 mm	ZM12 ZM18 ZX20
*	65 parallel lines	65L18	65 parallel lines Angle: 18.4°x18.4° @ 635 nm (more intense middle line) Projection size in 100 mm: 32 x 32 mm	ZM12 ZM18 ZX20

Crosses

*	Product name	Article code	Product description	Compatible with
+	Cross	x2	Cross Angle: 2°x2° @ 645 nm Projection size in 100 mm: 3.4 mm	ZM12 ZM18 ZX20
*				
+	Cross	x5	Cross Angle: 5°x5° @ 635 nm Projection size in 100 mm: 9 mm	ZM12 ZM18 ZX20
*				
+	Cross	x10	Cross Angle: 10°x10° @ 635 nm Projection size in 100 mm: 18 mm	ZM12 ZM18 ZX20
*				
+	Cross	x15	Cross Angle: 15°x15° @ 635 nm Projection size in 100 mm: 26 mm	ZM12 ZM18 ZX20
*				
	Cross	x30	Cross Angle: 36°x36° @ 635 nm Projection size in 100 mm: 66 mm	ZM12 ZM18 ZX20
*				
	Cross	x45	Cross Angle: 45°x45° @ 635 nm Projection size in 100 mm: 83 mm	ZM12 ZM18 ZX20
*				
	Cross	x60	Cross Angle: 60°x60° @ 635 nm Projection size in 100 mm: 116 mm	ZM12 ZM18 ZX20

Crosses

		•	Crosses	
*	Product name	Article code	Product description	Compatible with
+	Cross	x5g	Cross Angle: 5°x5° @ 520 nm Projection size in 100 mm: 9 mm	ZM18-green ZX20-green ZD-green
*	¢			
+	Cross	x15g	Cross Angle: 15°x15° @ 520 nm Projection size in 100 mm: 26 mm	ZM18-green ZX20-green ZD-green
*				
	Cross	x25g	Cross Angle: 25°x25° @ 532 nm Projection size in 100 mm: 45 mm	ZM18-green ZX20-green ZD-green
*	s			
	Cross	x52g	Cross Angle: 52°x52° @ 515 nm Projection size in 100 mm: 98 mm	ZM18-green ZX20-green ZD-green

Squares 51x51 squares 51x51q23 51x51 squares ZM12 Angle: 22.6°x22.6° @ 635 nm ZM18 Projection size in 100 mm: ZX20 40 x 40 mm 10x10 squares 10x10q40 10x10 squares ZM12 Angle: 40.0°x40.0° @ 658 nm ZM18 (dotted lines) Projection size in 100 mm: ZX20 72.8 x 72.8 mm

Dots arranged in a line

	Product name	Article code	Product description	Compatible with
	5 dots arranged in a line	5pl6	5 dots arranged in a line Angle: 6° @ 635 nm Projection size in 100 mm: 10.5 mm	ZM12 ZM18 ZX20
*				
	9 dots arranged in a line	9p10,85	9 dots arranged in a line Angle: 0.85° @ 635 nm Projection size in 100 mm: 1.5 mm	ZM12 ZM18 ZX20
*	11 dots arranged in a line	11pl16	11 dots arranged in a line Angle: 16.1° @ 635 nm Projection size in 100 mm: 28.1 mm	ZM12 ZM18 ZX20
*	19 dots arranged in a line	19pl13	19 dots arranged in a line Angle: 13.5° @ 635 nm Projection size in 100 mm: 23.5 mm	ZM12 ZM18 ZX20
*	99 dots arranged in a line	99pl18	99 dots arranged in a line Angle: 18.4° @ 635 nm Projection size in 100 mm: 32 mm	ZM12 ZM18 ZX20

Geometric forms

•	Product name	Article code	Product description	Compatible with
	Circle	c34	Circle Angle: 34° @ 635 nm Projection size in 100 mm: 60 mm	ZM12 ZM18 ZX20
*				
	Circle	c45g	Circle Angle: 45° @ 520 nm Projection size in 100 mm: 83 mm	ZM18-green ZX20-green
*				
	5 concentric circles	5c28	Concentric circles Angle: 28.2° @ 635 nm Projection size in 100 mm: 50.2 mm	ZM12 ZM18 ZX20

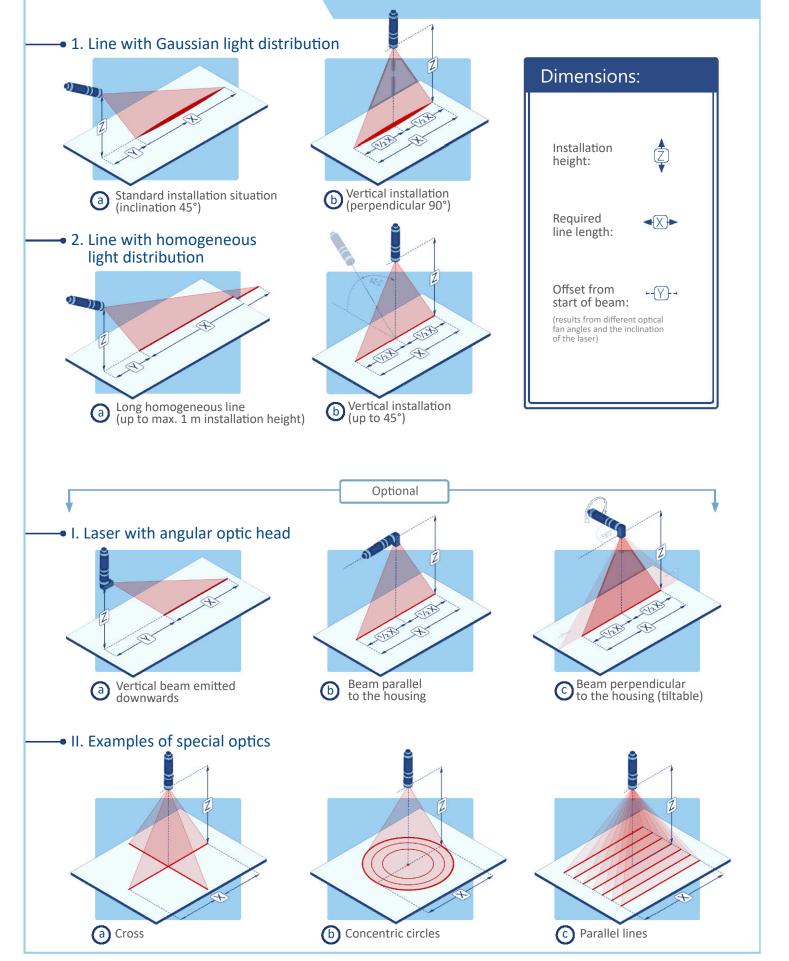
*				
	Square	q34	Square Angle: 34.3° @ 635 nm Projection size in 100 mm: 60 x 60 mm	ZM12 ZM18 ZX20

Dots in random pattern

•	Product name	Article code	Product description	Compatible with
*	33000-Dot Pseudo- Random (Design Wavelength 830 nm)	33kirp60	33000-Dot Pseudo-Random Number of dots: 33,000 Angle: 59.6 x 41.7° @ 830 nm Projection size in 100 mm: 114.6 x 76.3 mm	ZM12 ZM18
*	33000-Dot Pseudo- Random (Design Wavelength 645 nm)	33krp45	33000-Dot Pseudo-Random Number of dots: 33,000 Angle: 45.9 x 31.5° @ 645 nm Projection size in 100 mm: 84.8 x 56.4 mm	ZM12 ZM18
*	40100-Dot Pseudo- Random (Design Wavelength 850 nm)	40kirp60	40100-Dot Pseudo-Random Number of dots: 40,100 Angle: 59.7 x 39.6° @ 850 nm Projection size in 100 mm: 114.9 x 72.0 mm	ZM12 ZM18
*	31806-Dot Truly-Random (Design Wavelength 830 nm)	31kirp61	31806-Dot Pseudo-Random Number of dots: 31,806 Angle: 61.3 x 47.0° @ 830 nm Projection size in 100 mm: 118.5 x 86.9 mm	ZM12 ZM18
*	47708-Dot Truly-Random (Design Wavelength 830 nm)	47kirp61	47708-Dot Truly-Random Number of dots: 47,708 Angle: 61.3 x 47.0° @ 830 nm Projection size in 100 mm: 118.5 x 86.9 mm	ZM12 ZM18
*	29594-Dot Truly-Random (Design Wavelength 830 nm)	29kirp61	29594-Dot Pseudo-Random Number of dots: 29,594 Angle: 61.3 x 46.8° @ 830 nm Projection size in 100 mm: 118.5 x 86.5 mm	ZM12 ZM18

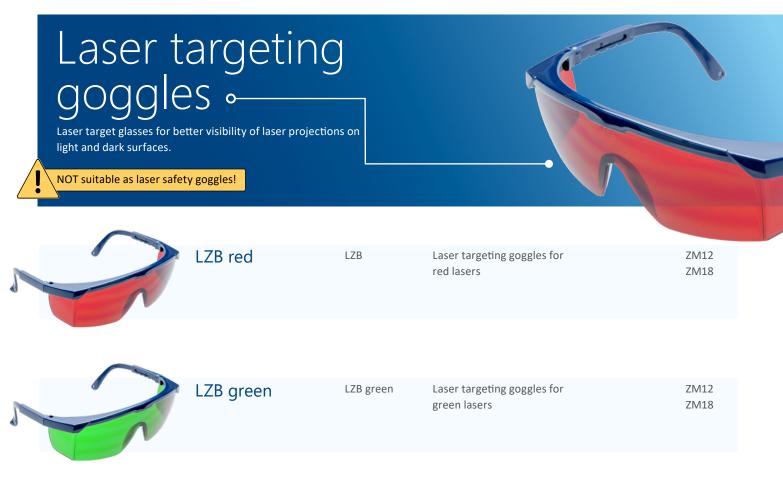
Z-LASER application and installation options.

This page shows you the different options for employing and installing our positioning lasers. The examples are numbered. We can use the dimensions x, y and z to provide you with a more accurate offer for your special laser.



Dots in random pattern

•	Product name	Article code	Product description	Compatible with
	51978-Dot Truly-Random (Design Wavelength 640 nm)	51krp52	51978-Dot Truly-Random Number of dots: 51,978 Angle: 52.0 x 66.2° @ 640 nm Projection size in 100 mm: 97.5 x 130.4 mm	ZM12 ZM18
*	101050-Dot Truly-Random (Design Wavelength 640 nm)	101krp53	101050-Dot Truly-Random Number of dots: 101,050 Angle: 53.3 x 67.6° @ 640 nm Projection size in 100 mm: 100.4 x 133.9 mm	ZM12 ZM18

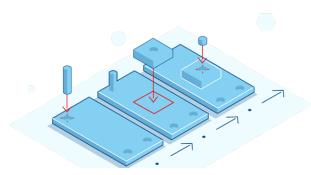


¹ About Z-LASER

Z-LASER is a German manufacturer of laser sources for innovative customer applications. Over the past 30 years we have successfully established ourselves in the following areas:

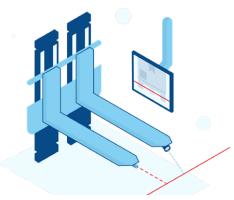
- Laser as positioning aid (industry and trade)
- Lasers for image processing
- Laser projectors as positioning aids (industry and trade)
- Customer-specific lasers (OEM laser solutions)





Intelligent technologies

Our intelligent systems – consisting of mechanics, electronics, and optics – allow a high coverage of all customer requirements and contribute to a clear differentiation from competitors. Numerous patents and utility models have been successfully registered in recent years.



Innovations for the future

Today, the company is also successful in many new, innovative industries that demand advanced laser technologies and designs.

"Quality is when customers return to us - not lasers."

> - Kurt-Michael Zimmermann, Founder Z-LASER GmbH

Quality policy & mission statement

Quality starts with the conversation with the customer. His wishes, needs and expectations determine our entrepreneurial actions. We constantly rethink our activities. Misunderstandings should be avoided and the products and services should meet the customer's quality requirements. Every employee from all areas and in all activities is responsible for quality. This quality cannot be checked, therefore it is consistently produced by us.

Supplier policies

Z-LASER is a socially responsible company that is committed to the well-being of people and the environment. Compliance with ethical principles and legally binding regulations is a matter of course for us.





We see it as our duty to carry out our business activities accordingly and expect our suppliers to do the same. For this reason, we demand REACH and RoHs conformity from supplied products as well as articles and the avoidance of conflict materials as far as possible.



Z-LASER generates a considerable part of its energy requirements via its own solar system and thus makes an active contribution to climate protection.

Don't hesitate to contact us!

Z-LASER

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"Quality is when customers return to us - not lasers."

- Kurt-Michael Zimmermann, Founder Z-LASER GmbH

