

**BLADE - VS Series (visible spectrum)**

	YVO <sub>4</sub> 532_6	YVO <sub>4</sub> 532_12	YVO <sub>4</sub> 532_20	YVO <sub>4</sub> 532_30	YVO <sub>4</sub> 532_8SP	YVO <sub>4</sub> 532_8VSP	YVO <sub>4</sub> 532_14VSP	YVO <sub>4</sub> 355_3
Laserklasse Laser class	4	4	4	4	4		4	4
Betriebsart Mode of operation	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed
Laserleistung im CW-Betrieb [W] CW-Mode Outputpower [W]								
Mittlere Laserleistung [W] Average Outputpower [W]	<b>6,5W</b>	<b>12W</b>	<b>20W</b>	<b>30W</b>	<b>8W</b>	<b>8W</b>	<b>14W</b>	<b>3W</b>
Wellenlänge [nm] Wavelength [nm]	<b>532</b>	<b>532</b>	<b>532</b>	<b>532</b>	<b>532</b>	<b>532</b>	<b>532</b>	<b>355</b>
Strahlqualität Beammode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
M <sup>2</sup>	< 1,2	< 1,3	< 1,3	< 1,3	< 1,2	< 1,3	< 1,2	< 1,3
Polarisation	Linear 100:1							
Pulsenergie Pulse energy	1,00mJ@1kHz 0,90mJ@6kHz 0,60mJ@10kHz 0,25mJ@20kHz	0,7mJ@16kHz 0,6mJ@20kHz	1,1mJ@12kHz 0,5mJ@40kHz 0,15mJ@100kHz 0,05mJ@200kHz	0,6mJ@50kHz 0,33mJ@100kHz	0,32mJ@25kHz	0,45mJ@10kHz 0,2mJ@40kHz	0,42mJ@20kHz (~ 7ns) 0,38mJ@30kHz (~ 8ns) 0,28mJ@50kHz (~ 12ns)	0,5mJ@1kHz 0,4mJ@6kHz
minimalste Pulsweite minimal Pulse width	ca. 14ns	ca. 30ns - 35ns	ca. 25ns	ca. 20ns	13ns@30kHz	6ns@7kHz	ca. 6ns	ca. 14ns
Repetitionsrate Repetition rate	1Hz - 200kHz	1Hz-100kHz	12kHz-300kHz optional 1Hz-200kHz	20kHz-300kHz optional 1Hz-200kHz	15kHz-100kHz optional 1Hz-200kHz	1Hz-200kHz	1Hz - 500kHz	1Hz - 200kHz
Kühlung Cooling	Ausschließlich Luftkühlung Entirely air-cooled							
Kühlungssystem Cooling system	Thermo elektrische Kühlung Thermo electric cooling							
Elektrischer Anschluß Electrical ratings	110V / 230 VAC							
Leistungsaufnahme Typical power consumption	max. 700W typ. 380W	max. 700W typ. 380W	max. 700W typ. 380W	max. 700W typ. 380W	max. 700W typ. 380W	max. 700W typ. 380W	max. 700W typ. 380W	max. 700W typ. 380W
Laserkopf (BxHxT) Laser head (BxHxT)	325mm x 160mm x 134mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)
Gewicht Laserkopf Weight Laser head	6,5kg	6,5kg	6,5kg	6,5kg	6,5kg	6,5kg	6,5kg	6,5kg
Versorgungseinheit (BxHxT) Control unit (BxHxT)	350mm x 350mm x 140mm	350mm x 350mm x 140mm	350mm x 350mm x 140mm	350mm x 350mm x 140mm	350mm x 350mm x 140mm	350mm x 350mm x 140mm	350mm x 350mm x 140mm	350mm x 350mm x 140mm
Gewicht Versorgungseinheit Weight Control Unit	16kg	16kg	16kg	16kg	16kg	16kg	16kg	16kg

We reserve the right to make technical modifications without prior notice. Errors and omissions excepted. 10% tolerances for measured values.

**BLADE - IR Series**

	YVO <sub>4</sub> IR_10	YVO <sub>4</sub> IR_15	YVO <sub>4</sub> IR_25	YVO <sub>4</sub> IR_40	YVO <sub>4</sub> IR_75	YVO <sub>4</sub> IR_18SP	
Laserklasse Laser class	4	4	4	4	4	4	
Betriebsart Mode of operation	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	Gepulst / pulsed	
Laserleistung im CW-Betrieb [W] CW-Mode Outputpower [W]	<b>10 W</b>	<b>15W</b>	<b>25W</b>	<b>40W</b>	<b>75W</b>	<b>18W</b>	
Mittlere Laserleistung [W] Average Outputpower [W]							
Wellenlänge [nm] Wavelength [nm]	<b>1064</b>	<b>1064</b>	<b>1064</b>	<b>1064</b>	<b>1064</b>	<b>1064</b>	
Strahlqualität Beammode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	
M <sup>2</sup>	< 1,3	< 1,3	< 1,3	< 1,3	< 1,3	< 1,2	
Polarisation	Linear 100:1						
Pulsenergie Pulse energy		1,20mJ@ 1kHz 0,85mJ@10kHz 0,60mJ@20kHz	2,00mJ@ 1kHz 1,00mJ@10kHz 0,80mJ@20kHz	1mJ@30kHz	1,2mJ@50kHz	0.18mJ@100kHz	
minimalste Pulsweite minimal Pulse width	ca. 15ns	ca. 15ns	ca. 15ns	ca. 15ns	ca. 15ns	45ns @ 100kHz 13ns@ 30kHz	
Repetitionsrate Repetition rate	1Hz - 200kHz	1Hz - 200kHz	1Hz - 200kHz	20kHz - 200kHz optional 1Hz - 200kHz	40kHz - 300kHz optional 1Hz - 200kHz	15kHz - 200kHz optional 1Hz - 200kHz	
Impulsspitzenleistung Peak power	up to 75kW	up to 100kW	up to 130kW	up to 60kW optional 150kW	up to 60kW optional 150kW		
Kühlung Cooling	Ausschließlich Luftkühlung Entirely air-cooled						
Kühlungssystem Cooling system	Thermo elektrische Kühlung Thermo electric cooling						
Elektrischer Anschluß Electrical ratings	110V / 230 VAC						
Leistungsaufnahme Typical power consumption	max. 700W typ. 380W	max. 700W typ. 380W	max. 700W typ. 380W	max. 1,5 kW typ. 1,2 kW	max. 1,7 kW typ. 1,2 kW	max. 700W typ. 380W	
Laserkopf (BxHxT) Laser head (BxHxT)	180mm x 180mm x 50,5mm	180mm x 180mm x 50,5mm	325mm x 160mm x 134mm (with cooling fan)	401mm x 160mm x 130mm (with cooling fan)	401mm x 160mm x 130mm (with cooling fan)	325mm x 160mm x 134mm (with cooling fan)	
Gewicht Laserkopf Weight Laser head	6kg	6kg	6,5kg	9,0kg	9,0kg	6,5kg	
Versorgungseinheit (BxHxT) Control unit (BxHxT)	350mm x 350mm x 140mm	350mm x 350mm x 140mm	350mm x 350mm x 140mm	475mm x 175mm x350mm	475mm x 175mm x350mm	350mm x 350mm x 140mm	
Gewicht Versorgungseinheit Weight Control Unit	16kg	16kg	16kg	23kg	23kg	16kg	

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