



TruMicro Series 5000

Technical data





TruMicro Series 5000

Short and ultrashort pulse lasers

Technical data

	TruMicro 5050	TruMicro 5050 Femto Edition	TruMicro 5070
LASER PARAMETERS			
AVERAGE OUTPUT POWER	50 W	40 W	100 W
BEAM QUALITY (M ²)	< 1.3	< 1.3	< 1.3 standard, M ² < 1,2 optional
WAVELENGTH	1030 nm	1030 nm	1030 nm
PULSE DURATION	< 10 ps	900 fs (tolerance -150...+100 fs)	< 10 ps
MAX. PULSE ENERGY	250 µJ	200 µJ	250 µJ
MIN. REPETITION RATE	200 kHz	200 kHz	400 kHz
MAX. REPETITION RATE	800 kHz	800 kHz	1000 kHz
MAXIMUM PULSE ENERGY			
MINIMUM REPETITION RATE			
MAXIMUM REPETITION RATE			
STRUCTURAL DESIGN			
DIMENSIONS OF LASER HEAD (W X H X D)	1005 mm x 319 mm x 605 mm	1005 mm x 319 mm x 605 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1392 mm x 608 mm	442 mm x 1392 mm x 608 mm	442 mm x 1192 mm x 910 mm
INSTALLATION			
PROTECTION TYPE	IP54	IP54	
AMBIENT TEMPERATURE	20 °C - 27 °C	20 °C - 27 °C	20 °C - 30 °C
PROTECTION CLASS			
	TruMicro 5070 Femto Edition	TruMicro 5080	TruMicro 5080 Femto Edition
LASER PARAMETERS			

Subject to changes. The details in our offer and order confirmation are definitive.

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	TruMicro 5070 Femto Edition	TruMicro 5080	TruMicro 5080 Femto Edition
AVERAGE OUTPUT POWER	80 W	150 W	120 W
BEAM QUALITY (M ²)	< 1.3 standard, M ² < 1,2 optional	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	1030 nm	1030 nm	1030 nm
PULSE DURATION	875 fs ± 125 fs	< 10 ps	900 fs (Tolerance -150...+100fs)
MAX. PULSE ENERGY	200 µJ		
MIN. REPETITION RATE	400 kHz		
MAX. REPETITION RATE	1000 kHz		
MAXIMUM PULSE ENERGY		250 µJ	200 µJ
MINIMUM REPETITION RATE		600 kHz	600 kHz
MAXIMUM REPETITION RATE		1000 kHz	1000 kHz
STRUCTURAL DESIGN			
DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm
INSTALLATION			
PROTECTION TYPE			
AMBIENT TEMPERATURE	20 °C - 30 °C	-	-
PROTECTION CLASS			
	TruMicro 5250	TruMicro 5250	TruMicro 5250 Femto Edition
LASER PARAMETERS			
AVERAGE OUTPUT POWER	30 W	30 W	25 W

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TruMicro Series 5000

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	TruMicro 5250	TruMicro 5250	TruMicro 5250 Femto Edition
BEAM QUALITY (M²)	< 1.3	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	515 nm	515 nm	515 nm
PULSE DURATION	< 10 ps	< 10 ps	800 fs ± 100 fs
MAX. PULSE ENERGY	150 µJ		
MIN. REPETITION RATE	200 kHz		
MAX. REPETITION RATE	800 kHz		
MAXIMUM PULSE ENERGY		150 µJ	125 µJ
MINIMUM REPETITION RATE		200 kHz	200 kHz
MAXIMUM REPETITION RATE		1000 kHz	1000 kHz
STRUCTURAL DESIGN			
DIMENSIONS OF LASER HEAD (W X H X D)	1005 mm x 319 mm x 605 mm	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1392 mm x 608 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm
INSTALLATION			
PROTECTION TYPE	IP54		
AMBIENT TEMPERATURE	20 °C - 27 °C	20 °C - 30 °C	20 °C - 30 °C
PROTECTION CLASS		IP54	IP54
	TruMicro 5270	TruMicro 5270 Femto Edition	TruMicro 5350
LASER PARAMETERS			
AVERAGE OUTPUT POWER	60 W	50 W	10 W
BEAM QUALITY (M²)	< 1.3 standard, M ² < 1,2 optional	< 1.3 standard, M ² < 1,2 optional	< 1.3

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	TruMicro 5270	TruMicro 5270 Femto Edition	TruMicro 5350
WAVELENGTH	515 nm	515 nm	343 nm
PULSE DURATION	< 10 ps	800 fs ± 100 fs	< 10 ps
MAX. PULSE ENERGY	150 µJ	125 µJ	50 µJ
MIN. REPETITION RATE	400 kHz	400 kHz	200 kHz
MAX. REPETITION RATE	1000 kHz	1000 kHz	400 kHz
MAXIMUM PULSE ENERGY			
MINIMUM REPETITION RATE			
MAXIMUM REPETITION RATE			
STRUCTURAL DESIGN			
DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm	1005 mm x 319 mm x 605 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm	442 mm x 1392 mm x 608 mm
INSTALLATION			
PROTECTION TYPE			IP54
AMBIENT TEMPERATURE	20 °C - 30 °C	20 °C - 30 °C	20 °C - 27 °C
PROTECTION CLASS			

	TruMicro 5350	TruMicro 5370
LASER PARAMETERS		
AVERAGE OUTPUT POWER	15 W	30 W
BEAM QUALITY (M ²)	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	343 nm	343 nm
PULSE DURATION	< 10 ps	< 10 ps
MAX. PULSE ENERGY		

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TruMicro Series 5000

Short and ultrashort pulse lasers

Technical data

	TruMicro 5350	TruMicro 5370
MIN. REPETITION RATE		
MAX. REPETITION RATE		
MAXIMUM PULSE ENERGY	75 µJ	75 µJ
MINIMUM REPETITION RATE	200 kHz	400 kHz
MAXIMUM REPETITION RATE	1000 kHz	1000 kHz
STRUCTURAL DESIGN		
DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm
INSTALLATION		
PROTECTION TYPE		
AMBIENT TEMPERATURE	20 °C - 30 °C	20 °C - 30 °C
PROTECTION CLASS	IP54	

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