

## Overview Conversion Screens

We offer the world's largest selection of conversion screens, covering different power levels across the entire spectral range from UV to IR. We gladly put together an individual selection of cards to serve as basic equipment in your laser laboratory.



### For High-power Lasers

Type	Excitation Wavelength	Emitted Light	Min. IR Intensity (estimated)	Max. IR Intensity (estimated)	Dimensions	Active Area
LDT-300BG	190–390 nm	red (660 nm)	<100 mW/cm <sup>2</sup> (cw) <10 mJ/cm <sup>2</sup> (pulsed)	>10 kW/cm <sup>2</sup> >10 J/cm <sup>2</sup> (pulsed)	100 x 23 mm	23 x 23 mm
LDT-1064C	780–830 nm + 870–1070 nm	green (550 nm)	ca. 10 W/cm <sup>2</sup> (1064 nm, cw)	ca. 3 kW/cm <sup>2</sup> (1064 nm, cw)	60 x 50 mm	45 x 48 mm
LDT-1064CL	780–830 nm + 870–1070 nm	green (550 nm)	ca. 10 W/cm <sup>2</sup> (1064 nm, cw)	ca. 3 kW/cm <sup>2</sup> (1064 nm, cw)	100 x 30 mm	30 x 30 mm
LDT-1064CN	900–1100 nm	green (approx. 535 nm)	ca. 1 W/cm <sup>2</sup> (1064 nm, cw)	ca. 200 W/cm <sup>2</sup> (1064 nm, cw)	60 x 40 mm	40 x 40 mm
LDT-1064N	800–1700 nm	green (approx. 530 nm)	<10 mW/cm <sup>2</sup> (1064 nm, cw) <1 mJ/cm <sup>2</sup> (1064 nm/pulsed)	>100 W/cm <sup>2</sup> (1064 nm, cw) >20 J/cm <sup>2</sup> (1064 nm/pulsed)	50,8 x 89 mm	50,8 x 50,8 mm
LDT-1064BG	800–1700 nm	green (530 nm)	<1 mW/cm <sup>2</sup> (1064 nm, cw) <100 mJ/cm <sup>2</sup> (1064 nm/pulsed)	>10 kW/cm <sup>2</sup> (1064 nm, cw) 30 J/cm <sup>2</sup> (1064 nm Q switched)	100 x 25 mm	23 x 23 mm
LDT-1.5-5-L <sub>low</sub> LDT-1.5-5-L <sub>high</sub>	1.5 μm–5 μm	Thermal discoloration	ca. 0.2 W/cm <sup>2</sup> * ca. 3 W/cm <sup>2</sup> *	ca. 3.5 W/cm <sup>2</sup> * ca. 8 W/cm <sup>2</sup> *	86 x 54 mm	40 x 25 mm

\*measurement done at 2 μm

For High-power Lasers

Type	Excitation Wavelength	Emitted Light	Min. IR Intensity	Max. IR Intensity	Dimensions	Active Area
LDT-1.5-5 µm High power	1.5 µm–5 µm	Thermal discoloration Reflexion	ca. 30 W/cm <sup>2</sup> *	ca. 80 W/cm <sup>2</sup>	86 x 54 mm	40 x 52 mm
	1.5 µm–5 µm	Transmission	ca. 60 W/m <sup>2</sup> *	ca. 120 cw/cm <sup>2</sup> *	86 x 54 mm	40 x 52 mm
*measurement done at 2 µm						
LDT-5-20H <sub>low</sub> LDT-5-20H <sub>high</sub>	5 µm–20 µm	Thermal discoloration	ca. 02 W/cm <sup>2</sup> *	ca. 4 W/cm <sup>2</sup>	86 x 54 mm	40 x 25 mm
	5 µm–20 µm		ca. 1.5 W/cm <sup>2</sup>	ca. 8 W/cm <sup>2</sup>	86 x 54 mm	40 x 25 mm
*measurement done at 10.6 µm						
LDT-5-20H High power	5 µm–20 µm	Thermal discoloration Reflexion Transmission	ca. 10 W/cm <sup>2</sup> ca. 30 W/cm <sup>2</sup>	ca 30 W/cm <sup>2</sup> ca. 50 W/cm <sup>2</sup>	86 x 54 mm 86 x 54 mm	40 x 52 mm 40 x 52 mm

\*measurement done at 10.6 µm

For Low-power Lasers

	Stimulation Range	Emission Range	Minimum Stimulation	Maximum Stimulation	Product Styles	Active Area
UVisualize	pulsed: 337 nm continuous: 450 nm 365 nm	580 nm  <430 – >750 nm	<u>pulsed:</u> <8 W/cm <sup>2</sup> @337 nm 4 ns, 20 Hz <40 W/cm <sup>2</sup> @337 nm 4 ns, 1 Hz <u>continuous:</u> <1 nW/cm <sup>2</sup> @450 nm <1 nW/cm <sup>2</sup> @365 nm	<u>single pulse:</u> (card format only) 130 MW/cm <sup>2</sup> @337 nm, 4 ns (disk + wand) 850 MW/cm <sup>2</sup> @337 nm, 4 s (all formats) 60 MW/cm <sup>2</sup> @1064 nm, 7 ns <u>continuous:</u> (all formats) 100 W/cm <sup>2</sup> @512 nm)	credit card style: 86 x 54 mm <u>disc + wand:</u> 130 x 35 mm	~4.5 cm <sup>2</sup>  25 mm diameter
Visualize	Band 1 <400 – <640 nm Band 2 <800 nm to <1700 nm	655 nm <575 nm to >750 nm	<u>continuous:</u> <1 nW/cm <sup>2</sup> @450 nm <25 µW/cm <sup>2</sup> @950 nm (measured under darkened conditions) <u>pulsed:</u> 2 kW/cm <sup>2</sup> @1064 nm (7 ns pulse@10Hz, low ambient light)	<u>single pulse:</u> (card format only) 130 MW/cm <sup>2</sup> @337 nm, 4 ns (disk + wand) 850 MW/cm <sup>2</sup> @337 nm, 4 ns (all formats) 60 MW/cm <sup>2</sup> @1064 nm, 7 ns <u>continuous:</u> (all formats) 100 W/cm <sup>2</sup> @512 nm	credit card style: 86 x 54 mm <u>disc + wand:</u> 130 x 35 mm	~4.5 cm <sup>2</sup>  25 mm diameter

For Low-power Lasers

	Stimulation Range	Emission Range	Minimum Stimulation	Maximum Stimulation	Product Styles	Active Area
VisualizerR	<u>Band 1:</u> 790 nm to 840 nm <u>Band 2:</u> 870 nm to 1070 nm <u>Band 3:</u> 1550 nm	principle peak: 550 nm other peaks: 673 nm 400 nm	<u>pulsed:</u> 250 kW/cm <sup>2</sup> @1064 nm (7 ns, 10 Hz, low ambient light) <u>continuous:</u> <2 μW/cm <sup>2</sup> @808 nm <175 nW/cm <sup>2</sup> @960 nm <100 μW/cm <sup>2</sup> @1550 nm (measured unter darkened conditions)	single pulse: 35 MW/cm <sup>2</sup> @1064 nm, 7 ns continuous: <100 W/cm <sup>2</sup>	credit card style: 86 x 54 mm <u>disc + wand:</u> 130 x 35 mm	~4.5 cm <sup>2</sup>  25 mm diameter
LDT008TL	800–1600 nm	green (545 nm) @ 950–980 nm red (670 nm) @ 1500–1600 nm red (650 nm) @ all other wavelengths	approx. 1 mW/cm <sup>2</sup> (1064 nm + 1550 nm)	approx. 5 W/cm <sup>2</sup> (1064 nm, cw)	85 x 54 mm	54x42 mm
LDT007BN	700–1400 nm	orange-red (approx. 654 nm)	approx. 8 μW/cm <sup>2</sup> (cw) @ 1064 nm (estimated)	35 MW/cm <sup>2</sup> @ 1064 nm, 7 ns (estimated)	credit card style: 85 x 54 mm	44x25 mm