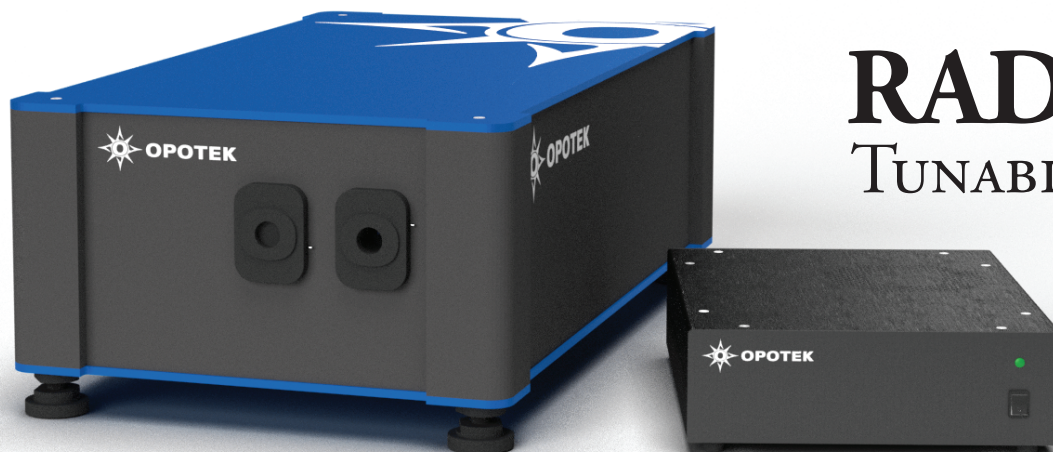


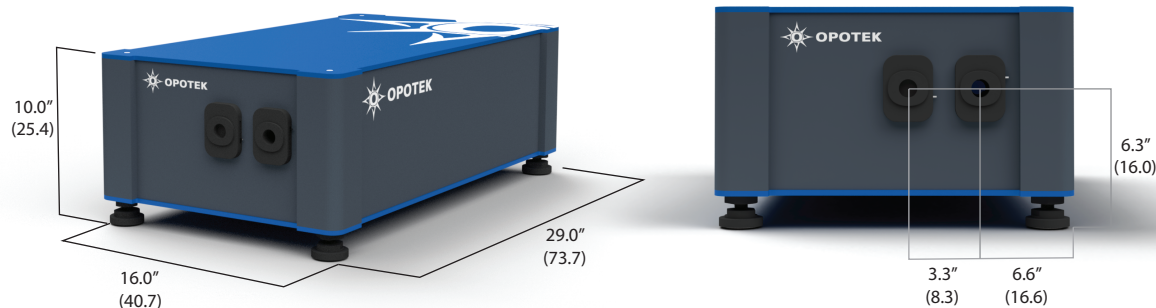


RADIANT QX

TUNABLE LASER SYSTEM

THE NEXT GENERATION OF THE POPULAR RADIANT SERIES IS HERE. THE ENTIRE RANGE OF THIS TUNABLE LASER SYSTEM IS FULLY INTEGRATED WITH THE OPO MODULE FOR GREATER EFFICANCY AND CONTINUOUS TUNABILITY FROM 210NM TO 2500NM WITHOUT THE NEED FOR ANY MANUAL ADJUSTMENTS.

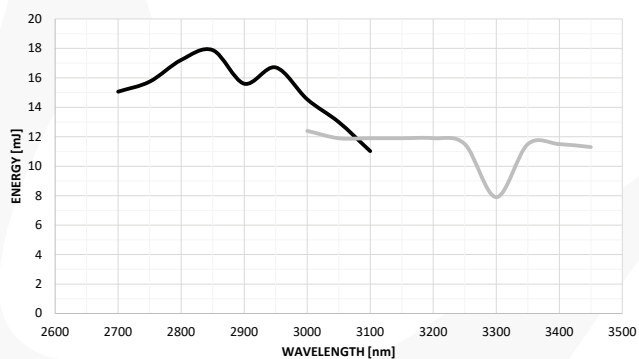
THE RADIANT QX TUNABLE LASER SYSTEM IS AVAILABLE IN THREE TUNING RANGES AND TWO ENERGY LEVELS FOR MOST MODELS. WHETHER IN THE UV, VIS, NIR, OR MIR, THE RADIANT QX TUNABLE LASER SYSTEM WILL LIGHT UP YOUR APPLICATION.



RADIANT QX10 SERIES

RADIANT QX4110A | RADIANT QX4110P

MIR TUNING RANGE

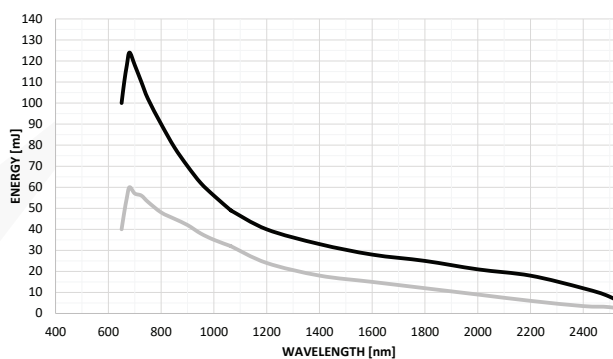


— RADIANT QX4110P — RADIANT QX4110A

RADIANT QX20 SERIES

RADIANT QX8120120 | RADIANT QX4220

NIR TUNING RANGE

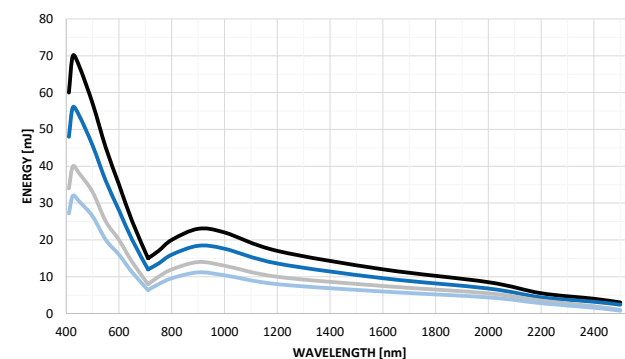


— RADIANT QX8120 — RADIANT QX4220

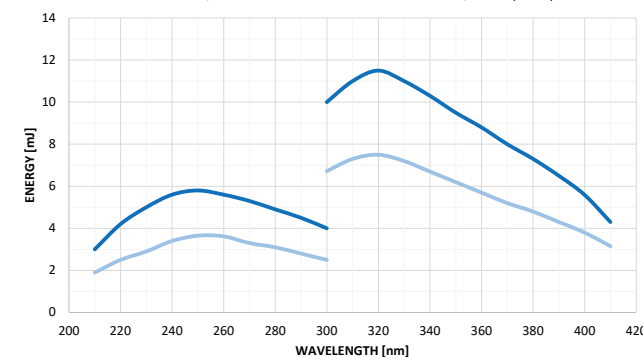
RADIANT QX30 SERIES

RADIANT QX8130 | RADIANT QX8130

VIS -NIR TUNING RANGE WITH OPTIONAL TUNABLE UV OUTPUT



— RADIANT QX8130 — RADIANT QX8130 w/ UV option
— RADIANT QX4130 — RADIANT QX4130 w/ UV option



SYSTEM FEATURES

FULLY INTEGRATED OPTICAL LAYOUT ON A SMALLER FOOTPRINT

EASY TO MAINTAIN FLASHLAMP PUMP LASER

COMPUTER CONTROLLED; UPDATED SOFTWARE WITH PROGRAMMABLE SCANNING

NO INSTALL NEEDED; PLUG AND PLAY TO USE IN THE LAB RIGHT AWAY

ALL TUNABLE WAVELENGTHS ARE ACCESSIBLE WITHOUT ANY MANUAL CONFIGURATION CHANGES

AVAILABLE OPTIONS INCLUDE MOTORIZED VARIABLE ATTENUATOR, ACCESS TO HARMONIC(S), AND FIBER OUTPUT

	RADIANT X10 SERIES		RADIANT X20 SERIES		RADIANT X30 SERIES	
OPO CHARACTERISTICS	RADIANT QX4110A	RADIANT QX4110P	RADIANT QX4220	RADIANT QX8120	RADIANT QX4130	RADIANT QX8130
WAVELENGTH RANGE (nm)	3000-3450	2700-3100	650-2600		210-2500	
SIGNAL	-		650-1064		410-710	
IDLER	3000-3450	2700-3100	1064-2600		710-2500	
UV (optional)	-		-		210-410	
Peak OPO Energy (mJ)	12	18	60	120	40	70
Pulse to Pulse Stability (RMS % @ Peak OPO WL)	< 2		< 2		< 2	
Pump Laser Residual Energy (mJ)	100 at 1064	100 at 1064	40-50 at 532	80-100 at 532	30-60 at 355	40-80 at 355
Linewidth (cm ⁻¹)	4 - 7		4 - 7		4 - 7	
Tuning Resolution (nm)	< 1		< 1		< 1	
Pulse Duration (ns)	6		6		6	
Beam Diameter (mm)	7		7	9	7	9
Beam Divergence (mrad)	< 5 (vertical), < 10 (horizontal)		< 2		< 1.5	
Signal Polarization	-		Horizontal		Horizontal	
Idler Polarization	Vertical		Vertical		Vertical	

PUMP LASER

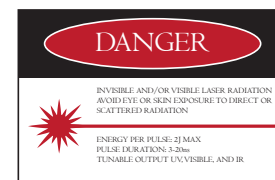
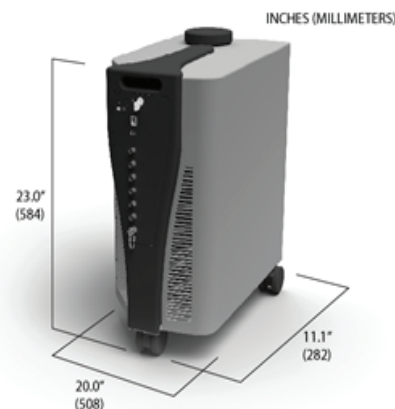
Pump Wavelength (nm)	1064	532	355
Pump Energy (mJ)	100	150	400
Pulse Duration (ns)	6	6	6
Beam Divergence (mrad)	< 1	< 1	< 1
Pulse to Pulse Stability (%)	< 2	< 4	< 6
Pulse Repetition Rate (Hz)	10	20	10

WEIGHT AND DIMENSIONS (all systems)

Laser Head (L x W x H; inches [cm])	29.0 x 16.0 x 10.0 (73.7 x 40.7 x 25.4)
Control Electronics Box (L x W x H; inches [cm])	11.5 x 10.3 x 3.8 (29.2 x 26.2 x 9.7)
Umbilical Length (m)	2.5
Pump Laser Power Supply (L x W x H; inches [cm])	11.1 x 19.9 x 20.2 (28.3 x 50.7 x 51.3)
Laser Head Weight (lbs [kg])	100 (45.4)
Pump Laser Power Supply Weight (lbs [kg])	59.5 (27)

OPERATING REQUIREMENTS (all systems)

Coolant System	Distilled Water
Room Temperature (64-82F°)	(18-28 C°)
Environmental Conditions	Pollution degree 2 or better
Power Requirements	100-240 VAC, 50Hz/60Hz



VERSION 1.0

Trademarks are the property of OPOTEK.
 All specifications are subject without notice.
 All tuning curves represent nominal values.
 All dimensions approximate in inches (centimeters).