

QCL DRIVERS COMPARISON TABLE

All numbers are retrieved from the official specification sheets



	QCL 1000 Wavelength El.	LDX 3232 ILX Lightwave	Arroyo 4302 Arroyo instruments	ITC4002QCL Thorlabs	QubeCL 1000 ppqSense
RMS Noise	<0.4 μ A [10Hz-100kHz]	20 μ A [10Hz-10MHz]	<20 μ A	<20 μ A [10Hz-10MHz]	<0.2 μ A [10Hz-100kHz]
Noise Current Density	2 nA/Hz ^{1/2}	-	-	-	<0.5 nA/Hz ^{1/2}
Short Term Stability	10 ppm	<20 ppm	50 ppm	100 ppm	< 10 ppm
Temperature Coefficient	10 ppm/°C	< 100 ppm/°C	< 100 ppm/°C	< 50 ppm/°C	< 5 ppm/°C
Long Term Stability (24 hour)	< 15 ppm	< 40 ppm	< 200 ppm	< 150 ppm	< 10 ppm
Compliance Voltage	20 V	15 V	15 V	17 V	20 V @ 26 V supply 18.5 V @ 24 V supply
Modulation Bandwidth	2-3 MHz	250 kHz	65 kHz	130 kHz	2-3 MHz
Modulation inputs	1	1	1	1	2, independent
Modulation Depth	90%	100%	?	100%	2 mA _{pp} , 20 mA _{pp}
Modulation Gain	200 mA/V				200 μ A/V, 2 mA/V
Temperature Stabilization	no	no	no	yes	yes
TEC Current	-	-	-	\pm 15 A	\pm 3 A
TEC Compliance	-	-	-	>15 V	> 15 V
Temperature Stability	-	-	-	<2 mK	<1 mK
Power Supply	220 V (LAB) Dual \pm 24V (OEM)	220 V	220 V	220 V	Scalable Single Supply: 15-36 V
Laser Config	CG	AG, CG	AG, CG	AG, CG	AG, CG
Interfaces	ETH, USB	GPIB	RS232, USB	USB	USB, Wi-fi (optional)

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