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Press Release

For IMMEDIATE Release

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Maturing Market produces Price Break in Monochromatic Room Temperature Quantum Cascade Lasers

Brookline MA: Monochromatic near-room temperature quantum cascade lasers are widely seen as the next big thing in gas sensing at high sensitivity (low gas concentration) due to their most desirable characteristics of ease of use, small size and, especially, spectral brightness. Until now however users were faced with high prices and long delivery times.

Now and effective immediately both Alpes Lasers SA (Neuchâtel, Switzerland) and Cascade Technologies Ltd. (Stirling, Scotland) offer pulsed monochromatic near room temp QC lasers at prices at about 35% of earlier price levels, with immediate delivery. Each laser is capable of tuning to and through the named wavelength with > 2 mW monochromatic power. Prices vary with currency exchange rates but translate to about \$5300 delivered in North America.

The lasers in the table below represent gas-specific wavelengths for which devices are already in production with available inventory at the new low prices. Other wavelengths of the customer's choice are also available, but at higher costs.

Wavelength (μm)	Wavenumber (cm^{-1})	Gases Detectable
4.42	2260	CO ₂
4.48	2230	CO ₂ , N ₂ O
4.86	2058	CO ₂ , CO
4.87	2055	CO ₂ , CO
5.25	1904	NO, H ₂ O
5.45	1835	NO
6.13	1631	NO ₂
6.29	1590	NO ₂ , NH ₃
7.43	1345	SO ₂ , H ₂ S, CH ₄
7.62	1313	N ₂ O, CH ₄ , H ₂ S
7.85	1274	H ₂ O, CH ₄ , N ₂ O, C ₂ H ₂ , H ₂ S
7.87	1270	H ₂ O, CH ₄ , N ₂ O, C ₂ H ₂ , H ₂ S
9.71	1030	O ₃
10.38	963	NH ₃
11.49	870	CH ₃ Cl

QC lasers must be thermally stabilized in order to maintain exact wavelength. Hardware to mount, control and drive these devices is also available.

Boston Electronics is US agent for both Alpes Lasers SA and Cascade Technologies Ltd.

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