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Crestec's game-changing technology for 5G/6G optical device manufacturing

On the back of unfettered expansion in global internet services and the demand for ever faster bandwidths, the market for optical communication devices grew 14% CAGR between 2015 and 2019. DFB LDs (distributed feedback semiconductor laser diodes) are essential to the manufacture of optical devices. And with the advent of 5G (and later 6G), the market for high-performing

DFB-LDs is predicted to grow 30% CAGR through 2025.

S u c h growth represents big

opportunities for Crestec Corporation, which develops Advanced Productive Electron Beam Lithography (ELB) Systems for customers across the world. Crestec's latest EBL model CABL-AP boasts superior operational features that will allow for greater speed and efficiency, higher precision and performance, and lower costs in the manufacturing of the latest DFB-LDs for 5G/6G, cloud services, medical sensing and LiDAR.

"We believe that our EBL can

be useful for the production of not only DFB-LDs, but also new multiple high-value-added compound semiconductor devices used in these industries," says Crestec president, Hideyuki Ohyi. "We are excited about the development of new markets that offer us new challenges."

"The introduction of 5G is expected to contribute to the creation of new industries and the

> resolution of social issues through collaboration among various

industries. In particular, we believe that our EBL can contribute to the creation of new cuttingedge semiconductor devices used in smart cities, autonomous driving, telemedicine, AR/VR, etc."

Anticipating rapid growth in the Data Center, IoT, 5G/6G, AI and robotics markets, Crestec is eyeing global growth through the provision of the highest quality machinery for DFB-LD devices and high-performance compound semiconductors.



"Our EBL system can minimize the manufacturing cost of DFB-LD devices and create high-performance products with high-yield rate"

Hideyuki Ohyi, President, Crestec Corporation



