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In recent years, the development and application of nanoparticles in atmospheric health, traffic safety, and the study of climate change is a kind of interdisciplinary advantage in continuous laser technology. Lidar has been widely used in atmospheric remote sensing. At present, the development of laser remote sensing is essential for the assessment of environmental quality, vehicle safety, and the development of regional security. The data obtained from the stages of laser remote sensing can be obtained and reflected on a large scale. The stereo effect of laser remote sensing is very significant. In this paper, we will discuss the development of laser remote sensing technology over the past few years and the future development of laser remote sensing technology.