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目　次

科研论文

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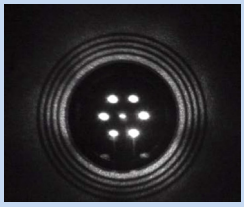
Contents

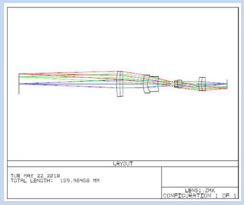
Article



Optimization design and realization of a keratometer 180373

Chen Peng, Wang Cheng, Zheng Gang, Chen Minghui, Xiang Huazhong, Zhang Dawei

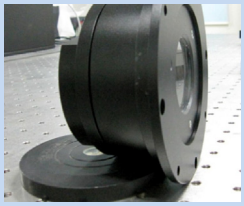
To realize a simplified keratometer, a design proposal based on corneal reflex imaging was proposed. The experiment results show that the precision of the measurement error is ±0.02 mm and the measurement range is from 5.5 mm to 11.6 mm (30 m^{-1} to 60 m^{-1} in diopter of cornea).



Design of optical system for high accuracy imaging keratometry 180392

Zhang Xueying, Wang Jinsong, Huang Guolin, Xu Pengfei

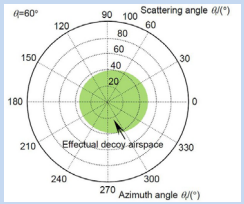
In order to reduce the alignment deviation of the imaging keratometer along the optical axis and improve the measurement accuracy of corneal diopter, a high precision imaging keratometer optical system was designed.



Application of image rotating mechanism of prism in ultra-high speed rotating mirror camera 180399

Chang Lihua, Li Jian, Wang Wei, Wang Xu, Zhang Guangsheng, Gao Peng, Xiao Zhengfei, Shang Changshui

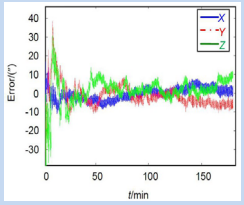
The principle of image rotating mechanism based on prism was introduced and the image rotating mechanism using Pechan prism matching the high speed rotating mirror camera was designed.



Deceiving ability of typical natural objects used for false target in laser decoy jamming 180453

Sun Chunsheng, Zhang Shuang, Zhang Xiaohui

Aiming at the applications of natural objects false target in laser decoy jamming, its deceiving ability characterized by decoy airspace was calculated and analyzed.



Ship angular flexure measurement method based on ring laser gyro units 180556

Zheng Jiaxing, Dai Dongkai, Wu Wei, Zhou Jinpeng

For ship angular flexure measurement based on the ring laser gyro units, a simplified attitude matching method was proposed. This method can track both the slow-varying angular flexure caused by sunshine heating and the short-time large-magnitude angular flexure caused by factors such as helm's operation.