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(57) Abstract :
The present invention relates to a portable slit lamp attachment device (100) for imaging anterior chamber angle. The device(100) includesframe (102), a high-resolution camera module (104) with autofocus and zoom features captures detailed images of the anterior chamber angle. Real-time image processing by a dedicated unit ensures the highest quality diagnostic data, displayed in real-time on an integrated unit. The device (100) seamlessly attaches to a slit lamp biomicroscope, providing stability and efficiency in clinical workflows. Additionally, a data storage unit facilitates the secure storage and sharing of captured images and diagnostic data for documentation and collaboration. The telemedicine integration unit (116) extends its functionality by enabling remote image transmission, facilitating telemedicine consultations, and collaborations. The device addresses a crucial need in optometry and ophthalmology, promising to revolutionize anterior chamber angle assessment and significantly enhance patient care.

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