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(54) **SYSTEMS AND METHODS FOR
ENCRYPTING AND TRANSMITTING DATA
BETWEEN DEVICES**

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(57) **ABSTRACT**

Encrypting and securely transmitting data between devices is disclosed. After a device obtains a request to purchase a prescription lens, including prescription data, to be inserted into a second electronic device, the prescription data is securely encrypted and transmitted to the lens manufacturer. The lens manufacturer may create a prescription lens and calibration data related to the lens. The calibration data can be encrypted and transmitted to a storage device for storage. The second electronic device can retrieve the encrypted calibration data from the storage device and utilize it to perform a full calibration of the device. The second electronic device can present images, in accordance with the calibration data, using a display through an optical path that include the prescription lens.

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