**Pen-mounted CCTV camera**

**Country of origin**  
India

**Health problem addressed**  
Persons with very low vision due to age related macular degeneracy or advanced glaucoma have difficulty in reading their own writing due to the small size of the written font.

**Product description**  
The closed-circuit television (CCTV) camera is mounted on a pen and connected to a computer/monitor, which shows the camera picture (written font) magnified to the extent necessary on the screen.

**Product functionality**  
A person can see on the screen what he or she writes on paper with the camera-equipped pen. The magnification of the font size is adjustable using a switch on the system.

**Developer’s claims of products benefits**  
This camera enables persons with very low vision to see what they write. Local production is possible with easily available accessible low-cost CCTV cameras.

**Development stage**  
The product has been tested by patients at one of the largest eye-hospitals in India.

**Future work and challenges**  
The idea is simple and made freely available at low cost to anyone who wishes to use it. Drawings and production details may be requested from the contact person.

**Use and maintenance**  
User: Self-use  
Training: Not required  
Maintenance: Not required

**Environment of use**  
Settings: Rural, urban settings, at home  
Requirements: Continuous power supply for the PC, laptop, or monitor and camera

**Product specifications**  
Dimensions (mm): 200 x 20 x 20  
Weight (kg): 0.5 (whole system excluding monitor)  
Consumables: No  
Life time (years): 5  
Shelf life (years): 5  
Retail price (USD): 20  
List price (USD): 20  
Other features: Portable, continuous-use  
Year of commercialization: Ready to be commercialized
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