

Wearable Displays Get SMART

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Wearable displays have often been referred to as "Head Mounted Displays" because of their bulky size and clunky appearance. Now Vuzix launches SMART Glasses Technology after years of internal development and a recent licensing deal with Nokia.

SMART Glasses Technology starts with a compact display engine capable of high contrast and brightness for outdoor use. The output is then relayed into a 1.4 mm thick polymer waveguide lens with input and output hologram structures on the surface which squeezes the light down the waveguide and then 2-dimensionally expands the image back into the user's eye.

Designed to work with SMART Devices that are typically connected to the internet, SMART Glasses are interactive and merge virtual information with the real world. These mobile AR devices can be used at night or in full daylight outdoors.

Vuzix plans a line of both monocular and binocular SMART Glasses for commercial, industrial and consumer markets. With integrated head tracking and options for multiple camera technologies Vuzix SMART Glasses can broaden the users' sensory perception across a greatly expanded light spectrum; additionally they can be used to recognize their environment along with their position in the real world, recording and transmitting what the user sees.

From standalone solutions for night vision and first-responder use to fully internet connected and geospatially aware devices for Augmented Reality applications, Vuzix SMART Glasses technology will release into both commercial and industrial markets by fall 2012.

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