

ActiveLook®

“Lite AR” : Visual Information in Action



European Photonics
Industry Consortium

OnlineTechnology Meeting on Laser Range Finders and Sports Optics, Xavier Banjour (Microled)



Lite AR – Requirements

Weight <40g

Comfort during physical activities is a need to have!

Good Design

(Sports) Glasses are a fashion item

Autonomy

>8 hours for most of physical activities and use all day long

Content Visibility

Need good content visibility during bright day light and night

Non intrusive

Unblock peripheral vision and central vision for safety and “stay in the Flow”

Relevant Content

Wide variety of content for multiple use case and user segments.



ActiveLook® : the components (6 grams)

Optical System

High precision micro-projector

Display

Low power (1mW) 0.19' AMOLED

Electronics

Dialog based "Smart Wearable on Chip" with 4.2 BLE

Sensors

Ambient light and gesture sensors

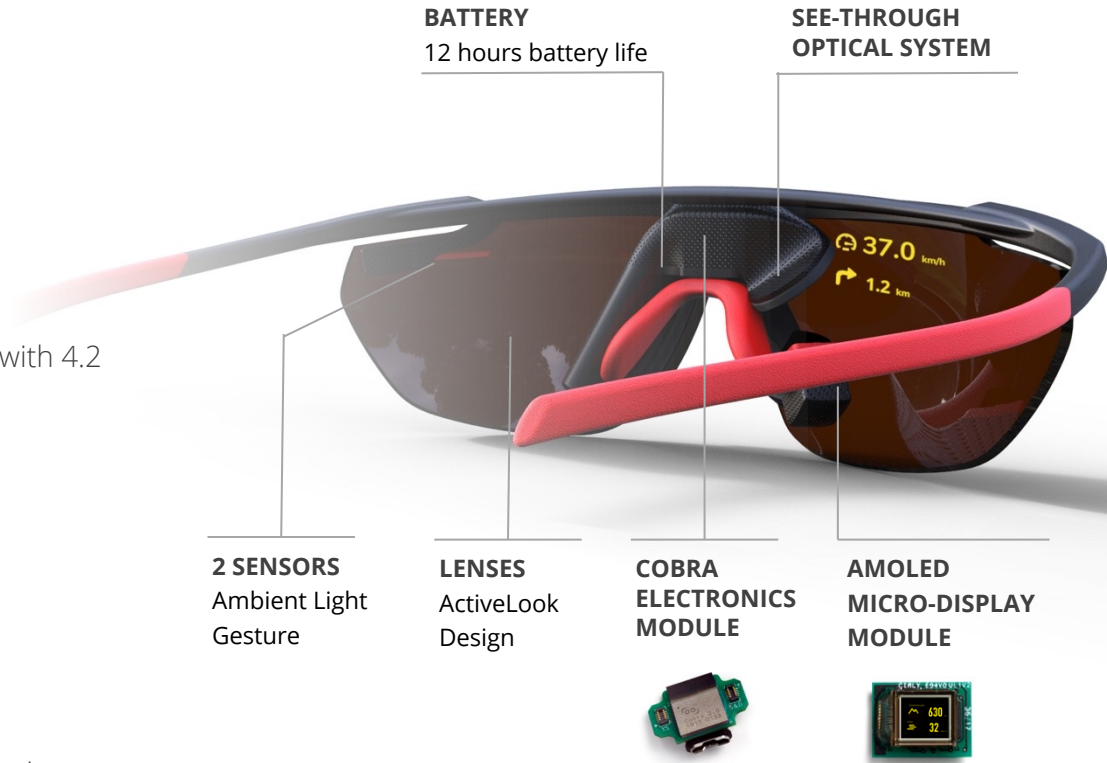
Battery

12 hours autonomy

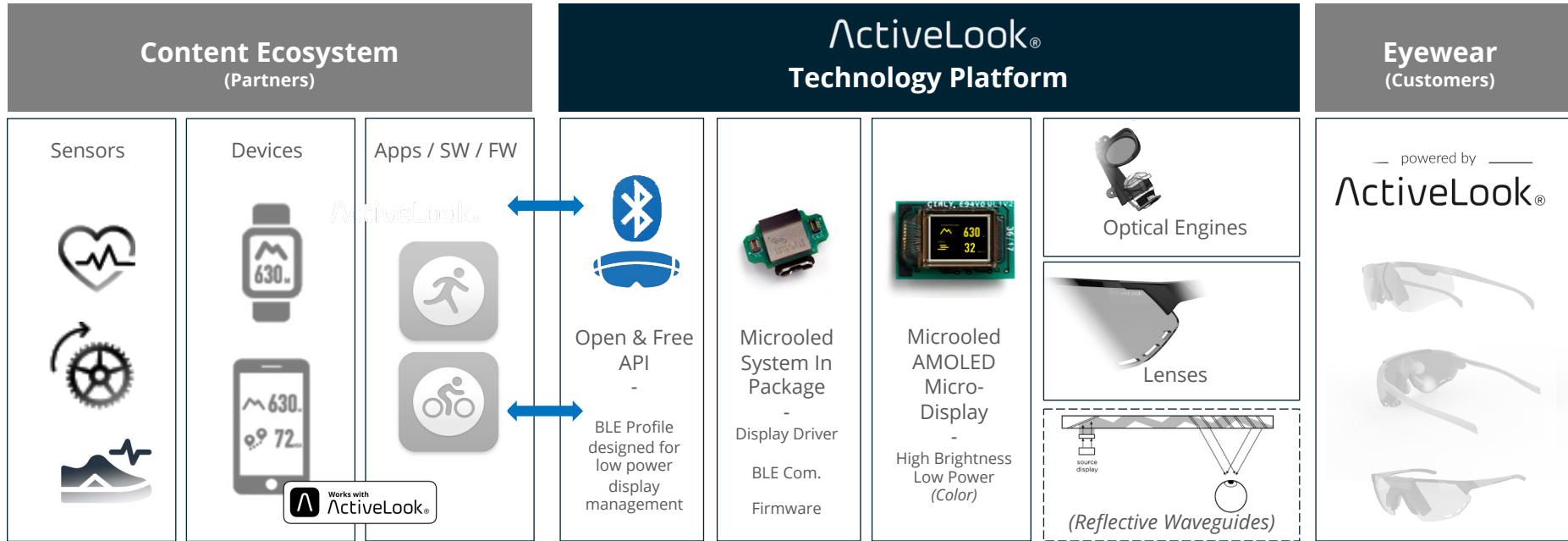
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Lenses

Custom coatings to maximize visual experience



ActiveLook® : a Smart Glasses Product Platform



The 1mW OLED micro-display

Low power: typ. 1mW , made possible because of “memory pixel” design to avoid need for refresh scanning

Compact: 0.19” with extremely high pixel density

High Brightness: Efficient “Yellow” color OLED compound with tandem architecture.

Resolution: 304 x 256 pixels enabled by extremely high pixel density.

Color: 16 “grey” levels (development in progress for a 16 colors version)





ActiveLook®
by microoled

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Thank you(

www.activelook.net
www.engoeyewear.com
www.microoled.net