SIX15 TECHNOLOGIES
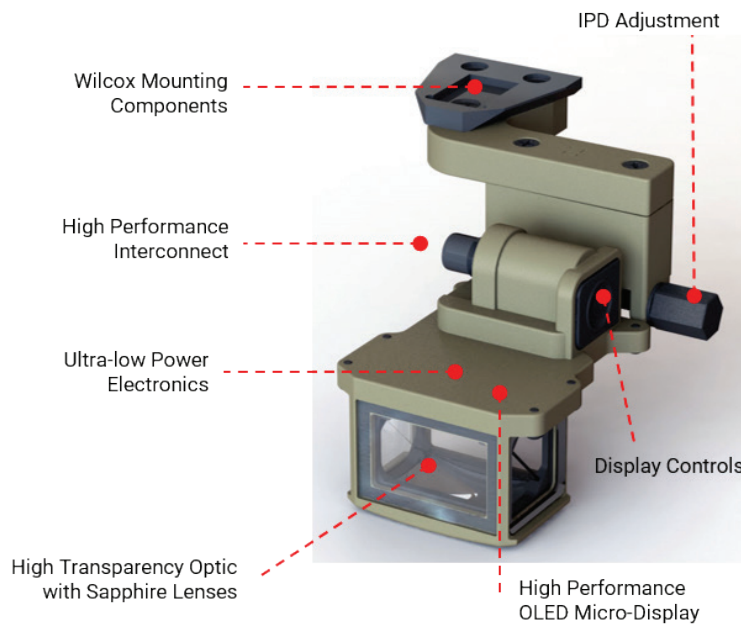
Head-Up, Hands-Free Rugged Augmented Reality (AR) Display for Situational Awareness

The ARC4™ Daylight Display developed and supplied by Six15 Technologies is an Augmented Reality (AR) display for non-standard environments. Head worn and hands free, it integrates seamlessly with the ARC4™ Recon module developed and supplied by Applied Research Associates (ARA) to display time-critical geo-spatial information. Rather than looking down at a 2D map or smart-phone device, the user sees virtual icons overlaid on their real-world view with their 'head-up' and 'eyes-out' on the environment.

ARC4™ Recon is an AR fusion engine that incorporates advanced head tracking sensors and algorithms, network management software, and an intuitive user interface to overlay iconic information on the user's environment. The high-contrast, high brightness OLED display provides sharp daytime AR imaging with less than 0.5W of power. Simple controls allow the operator to optimize the display to their conditions with little to no training required. The system leverages Wilcox™ mounting components for reliable mounting to fielded equipment.

ARC4™ Daylight Display Features

IPD Adjustment

Wilcox Mounting Components

High Performance Interconnect

Ultra-low Power Electronics

Display Controls

High Transparency Optic with Sapphire Lenses

High Performance OLED Micro-Display

ARC4™ Daylight Display Specifications:

Display
Monochrome - amber, AMOLED;
800 x 600 pixels

Field of View
43° diagonal

Eye Box
4.8 (H) x 7.8 (V) mm

Eye Relief
8 mm

Head-Borne Weight
4.4 oz. (9.9 oz. w/ Wilcox G22 mount)

Max Brightness
> 1000 cd/m^2

Gray Levels
256

Contrast Ratio
> 100:1

Display Inputs
VGA (640x480) and SVGA (800x600)

Power Consumption
< 0.5W (high brightness, splash screen)

Readiness
< 500 ms

Ingress Protection
IP67 (waterproof and dustproof)

Operating Temperature
-31° C to +49°

Storage Temperature
-46° C to +71°

Six15 Technologies is a leading manufacturer of head-worn displays for government, public safety, and industrial applications. Our patented optical technology and expertise in deploying reliable and scalable solutions have resulted in thousands of systems being deployed in the most demanding environments, enhancing situational awareness and operator effectiveness. Six15's product portfolio is designed to unlock head worn applications for existing computing and communications solutions. **For more information, visit www.six-15.com**