

SA-83/S

AUGMENTED REALITY HEAD MOUNTED DISPLAY



SA-83/S

The SA-83/S (shown with optional visor) is a low cost head mounted display that provides high resolution, very wide field of view imagery via a see-through optic, in multiple configurations, with minimal peripheral obscurations.

SA Photonics

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SA-83/S AUGMENTED REALITY SEE-THROUGH HMD

SA Photonics’ SA-83/S Augmented Reality Head Mounted Display (HMD) is a low cost system that provides augmentation via symbology and video imagery over a very wide 83° diagonal field of view. SA-83/S’s high resolution (1920 x 1200) color OLED microdisplays provide an extremely sharp image. SA Photonics’ innovative prism eyepiece design has almost no peripheral obscuration, so users see an unobstructed view of the real world.

An optional flip-up semitransparent visor is available to control light in bright ambient environments. The SA-83/S has adjustments for fore/aft, vertical position and interpupillary distance, ensuring that users always have the correct fit. A large exit pupil and eye relief provide for a comfortable viewing experience even while on the move.

The HMD also comes in configurations of 62° and 92° diagonal fields of view, with binocular overlap at 100% and 20°, respectively. The SA-83/S was designed to be mounted to either a helmet or a soft-mount using a standard COTS interface plate, and can be easily flipped up to a secure stowage position when not in use.

SA Photonics is a pioneer in the development and deployment of innovative photonics solutions for military and commercial markets. SA Photonics personnel have been designing head mounted displays for over 25 years and have built some of the world’s most successful HMDs for use in extremely challenging environments.

SPECIFICATIONS	
Parameter	SA-83/S
Diagonal Field of View	83°
Horizontal Field of View	76°
Vertical Field of View	33°
Binocular Overlap	30°
Eye Box	10 mm
Eye Relief	25 mm
Display Resolution	1920 x 1200 pixels
IPD Adjustment Range	55-75 mm
Binocular Weight	570 g

