



Emulated Military Equipment

High-quality handheld injected-video displays for professional Training and Simulation applications

The Sensics family of emulated military equipment is a powerful and effective platform for weapons training with the following benefits:

- **Effective training.** By preserving the weight, look and feel of the original devices, often using components from field units, Sensics minimizes the risk of negative training.
- **Realistic visual experience.** By utilizing the original optics or generating high-quality equivalents, Sensics closely emulates the visual experience of the fielded device.
- **High-definition display.** Sensics uses 1280x1024 OLED SXGA displays that provide high resolution, high contrast and no image smear for highly powerful visuals.
- **Instrumented controls.** Device controls such as pushbuttons, focus, windage and elevation dials are monitored and reported to the host computer.

Our devices can be configured with a wide range of options including:

- **Wireless video.** Our high-definition, ultra low-latency video link allows untethered operation as well as carries pushbutton and control status to the host PC. Multiple wireless links can be used at the same time for multi-person training.
- **Battery operation.** Rechargeable batteries can provide several hours of operation between charges.
- **Orientation and position trackers** including a wide range of yaw/pitch/roll as well as X/Y/Z and linear acceleration measurements. These allow tying the devices into a comprehensive training scenario.

We will partner with you to meet your needs. The devices on the right are a partial list of our offerings. Our internal processes allow us to quickly emulate additional types of devices to suit your particular project.

Sensics, Inc.
7125 Thomas Edison Dr, Suite 103
Columbia, MD 21046, USA
www.sensics.com,
Tel: +1 443 927 9200; Fax: +1 443 927 9203



Virtual PVS-14



Virtual Vector 21



7x50 field binos



Virtual PAS-18



Virtual Mark IV



Spotter Scope



Bradley IBAS

And more!



Specifications for Emulated Devices

	PVS-14	PAS-18	Vector 21	7x50 binoculars	Mark IV rifle scope	Spotting scope	Bradley IBAS
Resolution	1280x1024	1280x1024	1280x1024	1280x1024 per eye	1280x1024	1280x1024	1280x1024
Display technology	OLED	OLED	OLED	OLED	OLED	OLED	OLED
Display type	Monochrome green	Monochrome	Full color	Full color	Full color	Full color	Monochrome green
Field of view (degrees)	40	35 diagonal	37.3 circular or 46.7H x 37.3V	49.7	Identical to field unit	12-40x60mm	Identical to field unit
Image type	Circular	Rectangular	Circular or rectangular	Circular	Circular	Circular	Rectangular
Display resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Weight	400 grams	2.3 Kg	1.7 Kg	1.59 Kg	500 g	1.03 Kg	N/A
Wireless video option	✓	✓, internal or external	✓, internal or external	✓, internal or external	✓	✓	✓
Battery option	✓	✓	✓	✓	✓	✓	✓
Contrast	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1	1,000:1
Max luminance	150fL	50fL	50fL	50fL	50fL	50fL	100fL
Diopter adjustment	Yes	Yes	Yes -4 to +4	Yes	Yes	Yes	N/A
IPD range	N/A	N/A	52 – 72 mm	55 – 75 mm	N/A	N/A	N/A

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