disclosure relates to a viewing optic with an integrated display system having a mounting system for one or more enabler devices. In one embodiment, the disclosure relates to a viewing optic with an integrated display system having a mounting system for one or more accessory devices.

In one embodiment, the disclosure relates to a viewing optic with an integrated display system having a mounting system for one or more enablers, including but not limited to a laser rangefinder, a camera, and a video system. In one embodiment, the disclosure relates to a viewing optic with one or more enabler interfaces configured to accept an enabler and configured to allow communication between the viewing optic and the enabler.

In one embodiment, the disclosure relates to a method for mounting one or more enabler devices or one or more system components to a viewing optic encompassing power and data transfer.

In one embodiment, the disclosure relates to a mounting system for a viewing optic that allows one or more enabler devices to be integrated with the system.

In one embodiment, the disclosure relates to a viewing optic comprising: an optical system configured to focus a target image from an outward scene to a first focal plane and an active display configured to generate a digital image, and one or more enabler interfaces configured to accept an enabler, wherein the enabler interface is configured to communicate with the active display.

In a first aspect, the disclosure relates to a viewing optic comprising: a body having an optical system configured to focus a target image from an outward scene to a first focal plane; and one or more enabler interfaces, the one or more enabler interfaces having a first portion on a right side of the body, a second portion on the left side of the body, and a central portion on a top portion of the body, the first and second portions slopping from 45° to 35°, wherein each of the first portion and the second portion each have at least two screw holes configured to secure an enabler device to the viewing optic and configured to accept an enabler device.

In one embodiment, the disclosure relates to a viewing optic comprising: a body having an optical system configured to focus a target image from an outward scene to a first focal plane; and a mounting system on a top portion of the body and configured to accept an enabler device. In one embodiment, the mounting system comprises a first mounting location forward of the etched reticle elevation adjustment knob and a second mounting location rear of the etched reticle elevation adjustment knob. In one embodiment, the first mounting location has a sloping 45°

degree angle off to the right and left side of the viewing optic. In yet another embodiment, the second mounting location has a sloping 45° degree angle off to the right and left side of the viewing optic.

In one embodiment, the mounting system comprises one or more enabler interfaces. In still another embodiment, the mounting system comprises a front enabler interface and a rear enabler interface.

There is disclosed a system comprising: a viewing optic having: (a) a main tube; (b) an objective system coupled to a first end of the main tube that focuses a target image from an outward scene; (c) an ocular system coupled to the second end of the main tube, the main tube, objective system and ocular system being configured to define a first focal plane; and (d) an active display configured to generate a digital image; and one or more enabler interfaces located on a top portion of the main tube and configured to accept an enabler device, wherein the enabler device is configured to communicate information to the active display and said information is projected into the first focal plane of the viewing optic.

In a second aspect, the disclosure relates to a viewing optic comprising: a body having an optical system configured to focus a target image from an outward scene to a first focal plane; a front enabler interface located forward of an etched reticle elevation adjustment knob and configured to accept a front enabler device; the front enabler interface having a first portion on a right side of the body, a second portion on the left side of the body, and a central portion on a top portion of the body, the first and second portions slopping from 45° to 35°, wherein each of the first portion and the second portion each have at least two screw holes configured to secure the front enabler device to the viewing optic; a rear enabler interface located behind the etched reticle elevation adjustment knob and configured to accept a rear enabler device, the rear enabler interface having first portion on a right side of the body, a second portion on the left side of the body, and a central portion on a top portion of the body, the first and second portions slopping from 45° to 35°, wherein each of the first portion and the second portion each have at least two screw holes configured to secure the rear enabler device to the viewing optic.

In one embodiment, the disclosure relates to a viewing optic comprising: a body having an optical system configured to focus a target image from an outward scene to a first focal plane; an active display configured to generate a digital image, and one or more enabler interfaces on a top portion of the body and configured to accept an enabler device, wherein the enabler interface is configured to communicate with the active display of the viewing optic.

In one embodiment, the disclosure relates to a viewing optic having: (a) a main tube; (b) an objective system coupled to a first end of the main tube that focuses a target image from an outward scene; (c) an ocular system coupled to the second end of the main tube, the main tube, objective system and ocular system being configured to define at least a first focal plane; and (d) an active display configured to generate a digital image; and one or more enabler interfaces located at the top of the main tube and configured to accept an enabler, wherein the enabler interface is configured to communicate information from the enabler to the active display and said information from the enabler is projected into the first focal plane of the viewing optic.

WHAT IS CLAIMED IS:

1. A viewing optic comprising: a body having an optical system configured to focus a target image from an outward scene to a first focal plane; and one or more enabler interfaces, the one or more enabler interfaces having a first portion on a right side of the body, a second portion on the left side of the body, and a central portion on a top portion of the body, the first and second portions slopping from 45° to 35°, wherein each of the first portion and the second portion each have at least two screw holes configured to secure an enabler device to the viewing optic and configured to accept an enabler device.

2. The viewing optic of claim 1, wherein the one or more enabler interfaces comprises two enabler interfaces.

3. The viewing optic of claim 2, wherein one of the two enabler interfaces is located forward of an etched reticle elevation adjustment knob.

4. The viewing optic of claim 3, wherein the second of the two enabler interfaces is located behind an etched reticle elevation adjustment knob.

5. The viewing optic of claim 1, further comprising an enabler device selected from the group consisting of: a laser range finder, a camera, a compass module, a communication module, a laser aiming unit, an illuminator, an iron sight, a red dot, and a pivoting sighting module.

6. A viewing optic comprising: a body having an optical system configured to focus a target image from an outward scene to a first focal plane; a front enabler interface located forward of an etched reticle elevation adjustment knob and configured to accept a front enabler device; the front enabler interface having a first portion on a right side of the body, a second portion on the left side of the body, and a central portion on a top portion of the body, the first and second portions slopping from 45° to 35°, wherein each of the first portion and the second portion each have at least two screw holes configured to secure the front enabler device to the viewing optic; a rear enabler interface located behind the etched reticle elevation adjustment knob and configured to accept a rear enabler device, the rear enabler interface having first

portion on a right side of the body, a second portion on the left side of the body, and a central portion on a top portion of the body, the first and second portions slopping from 45° to 35°, wherein each of the first portion and the second portion each have at least two screw holes configured to secure the rear enabler device to the viewing optic.

7. The viewing optic of claim 6, further comprising a rear enabler device selected from the group consisting of: a laser range finder, a camera, a compass module, a communication module, a laser aiming unit, an illuminator, an iron sight, a red dot, and a pivoting sighting module.

8. The viewing optic of claim 6, further comprising an active display configured to generate a digital image; and a rear enabler device configured to communicate information to the active display, wherein said information is projected into the first focal plane of the viewing optic.

9. The viewing optic of claim 6, further comprising a laser range finder coupled to the rear enabler interface.