



Technical Specifications for the HWS

SU-231/PEQ (M553)

Operation

Optics: Transmission holography – 100% parallax free

Magnification: 1x

Eye Relief: Unlimited

Length/Width/Height: 4.9"x1.8"x2.8"

Weight: 12.3 oz

Temperature: -40 to 150 F

Waterproof: Submersible to 66 ft depth

Sealing: Fogproof internal optics

Color/Finish: Flat Dark Earth (non-reflective black on some small components)

Adjustment (per click): 0.5 MOA (1/2" at 100 yds)

Adjustment Range: +/- 40 MOA travel

Mount: USSOCOM requirements dictated dual quick release throw levers designed *specifically* for the Picatinny (MIL-STD-1913) mounting rail:

- Certain commercial variants of the MIL-STD-1913 rail specification may not be compatible with the SU-231/PEQ (M553) mounting assembly.
- The SU-231/PEQ (M553) base consists of (2) ARMS® throw levers and is only adaptable to rails that properly accept the ARMS® design.

Return to Zero: Repeatable to 1 MOA after re-mounting

Heads-Up-Display Window

Optical Surfaces: Anti-glare coating

Window Dimensions: 1.20" x 0.85" (30 x 23mm)

Window Material: Shatter resistant laminate (3/16" thick)

Field of View (100 yds): 30 yds (28m) at a 4" eye relief

Standard Reticle: 65MOA circle with quadrant ticks with 1 MOA aiming dot

Electrical

Brightness Adjustment Range: 110,000: 1 brightest to lowest

Night Vision Brightness Range: 1000: 1 with NV switch engaged

Power Source: 2 x 123 lithium batteries

Battery Life: 1100 continuous hours at nominal setting 12

Brightness Settings: 30 settings with scrolling feature (10 settings for NV use)

Auto Battery Check Indicator: Flashing reticle upon start-up

Auto Shut-down: At 8 hrs- programmable to 4 hrs

Operation

Optics: Transmission holography – 100% parallax free

Magnification: 1x

Eye Relief: Unlimited

Length/Width/Height: 5"x1.8"x2.25" (131x49x60 mm)

Weight: 11.5 oz (326 grams)

Temperature: -40 to 150 F (using AA lithiums); -20 to 140 F (all other battery choices)

Waterproof: Submersible to 33 ft depth

Sealing: Fogproof internal optics

Color/Finish: Non reflective black with hard coat finish

Adjustment (per click): 0.5 MOA (1/2" at 100 yds)

Adjustment Range: +/- 40 MOA travel

Mount: 1" Picatinny (MIL-STD-1913) rail

Return to Zero: Repeatable to 1 MOA after re-mounting

Heads-Up-Display Window

Optical Surfaces: Anti-glare coating

Window Dimensions: 1.20" x 0.85" (30 x 23mm)

Window Material: Shatter resistant laminate (3/16" thick)

Field of View (100 yds): 30 yds (28m) at a 4" eye relief

Standard Reticle: 65MOA circle with quadrant ticks with 1 MOA aiming dot

Electrical

Brightness Adjustment Range: 110,000: 1 brightest to lowest

Night Vision Brightness Range: 1000: 1 with NV switch engaged

Power Source: 2x 1.5V AA batteries (supports lithium, alkaline, or rechargeable)

Battery Life: 1,000 continuous hours (lithium) at nominal setting 12; 600 continuous with AA alkaline

Brightness Settings: 30 settings with scrolling feature (10 settings for NV use)

Auto Battery Check Indicator: Flashing reticle upon start-up

Auto Shut-down: At 8 hrs- programmable to 4 hrs

M551

Operation

Optics: Transmission holography – 100% parallax free

Magnification: 1x

Eye Relief: Unlimited

Length/Width/Height: 4"x1.8"x2.25" (102x49x60 mm)

Weight: 8.8 oz (250 grams)

Temperature: -20 to 140 F

Waterproof: Submersible to 33 ft depth

Sealing: Fogproof internal optics

Color/Finish: Non reflective black with hard coat finish

Adjustment (per click): 0.5 MOA (1/2" at 100 yds)

Adjustment Range: +/- 40 MOA travel

Mount: Picatinny (MIL-STD-1913) rail

Return to Zero: Repeatable to 2 MOA after re-mounting

Heads-Up-Display Window

Optical Surfaces: Anti-glare coating

Window Dimensions: 1.20" x 0.85" (30 x 23mm)

Window Material: Shatter resistant laminate (3/16" thick)

Field of View (100 yds): 30 yds (28m) at a 4" eye relief

Standard Reticle: 65MOA circle with quadrant ticks with 1 MOA aiming dot

Electrical

Brightness Adjustment Range: 110,000: 1 brightest to lowest

Night Vision Brightness Range: 1000: 1 with NV switch engaged

Power Source: 2x N type 1.5V alkaline batteries (3.0V)

Battery Life: 200 continuous hours at nominal setting 12

Brightness Settings: 30 settings with scrolling feature (10 settings for NV use)

Auto Battery Check Indicator: Flashing reticle upon start-up

Auto Shut-down: At 8 hrs- programmable to 4 hrs

M512

Operation

Optics: Transmission holography – 100% parallax free

Magnification: 1x

Eye Relief: Unlimited

Length/Width/Height: 5"x1.8"x2.25" (131x49x60 mm)

Weight: 11.5 oz (326 grams)

Temperature: -40 to 150 F (using AA lithiums); -20 to 140 F (all other battery choices)

Waterproof: Submersible to 10 ft depth

Sealing: Fogproof internal optics

Color/Finish: Non reflective black with hard coat finish

Adjustment (per click): 0.5 MOA (1/2" at 100 yds)

Adjustment Range: +/- 40 MOA travel

Mount: 1" Picatinny (MIL-STD-1913) rail

Return to Zero: Repeatable to 1 MOA after re-mounting

Heads-Up-Display Window

Optical Surfaces: Anti-glare coating

Window Dimensions: 1.20" x 0.85" (30 x 23mm)

Window Material: Shatter resistant laminate (3/16" thick)

Field of View (100 yds): 30 yds (28m) at a 4" eye relief

Standard Reticle: 65MOA circle with quadrant ticks with 1 MOA aiming dot

Electrical

Brightness Adjustment Range: 110,000: 1 brightest to lowest

No Night Vision Compatibility

Power Source: 2x 1.5V AA batteries (supports lithium, alkaline, or rechargeable)

Battery Life: 1,000 continuous hours (lithium) at nominal setting 12; 600 continuous with AA alkaline

Brightness Settings: 30 settings with scrolling feature (10 settings for NV use)

Auto Battery Check Indicator: Flashing reticle upon start-up

Auto Shut-down: At 8 hrs- programmable to 4 hrs

M511

Operation

Optics: Transmission holography – 100% parallax free

Magnification: 1x

Eye Relief: Unlimited

Length/Width/Height: 4"x1.8"x2.25" (102x49x60 mm)

Weight: 8.8 oz (250 grams)

Temperature: -20 to 140 F

Waterproof: Submersible to 10 ft depth

Sealing: Fogproof internal optics

Color/Finish: Non reflective black with hard coat finish

Adjustment (per click): 0.5 MOA (1/2" at 100 yds)

Adjustment Range: +/- 40 MOA travel

Mount: Picatinny (MIL-STD-1913) rail

Return to Zero: Repeatable to 2 MOA after re-mounting

Heads-Up-Display Window

Optical Surfaces: Anti-glare coating

Window Dimensions: 1.20" x 0.85" (30 x 23mm)

Window Material: Shatter resistant laminate (3/16" thick)

Field of View (100 yds): 30 yds (28m) at a 4" eye relief

Reticle Options: 65 MOA, Single 1 MOA dot, Special less lethal pattern for Sage and FN

Electrical

Brightness Adjustment Range: 110,000: 1 brightest to lowest

No Night Vision Compatibility

Power Source: 2x N type 1.5V alkaline batteries (3.0V)

Battery Life: 200 continuous hours at nominal setting 12

Brightness Settings: 30 settings with scrolling feature (10 settings for NV use)

Auto Battery Check Indicator: Flashing reticle upon start-up

Auto Shut-down: At 8 hrs- programmable to 4 hrs