



Helmet-Mounted Personnel Marker, Multi-Spectral

HEL-STAR 6° SWIR offers the full capabilities of HEL-STAR 6° Gen III in multiple visible and infrared spectrums. This advanced personnel marker is designed for helmet-mounting for airborne, MFF, and ground tactical operations. Available in tan or black.

HEL-STAR 6° SWIR contains four user-defined functions in two selectable operating modes in virtually any combination of white, green, red, blue and two independent IR wavelengths, including three SWIR options. Each function is user-defined in either steady, flashing or IFF coded operation.

HEL-STAR 6° SWIR Advantages

- **Spectrum Options** - Visible (White, Green, Red, Blue), NIR (890nm) and SWIR (1064nm, 1300nm or 1550nm)
- **Safety** - Unique battery access design provides a snag-free profile on all sides. Primary Velcro® attachment provides emergency peel-away to reduce potential for injury.
- **Visibility** - Omni-directional. Intensities can be scaled up or down for special requirements. White flash exceeds FAA 3-statute mile parachuting requirement.
- **Simple, Secure Operation** - Switches are designed for positive operation by a gloved-hand, in the blind, with the helmet donned. Mode selection switch design options provide operational flexibility or strong security between overt and covert operating modes.
- **Operating Extremes** - HEL-STAR 6° SWIR is shock and vibration resistant, dustproof and open sea waterproof to 130 fsw (laboratory 300+ feet). Optional screw closure for battery door is available for diving operations. Every unit is waterproof tested at final inspection—without screw closure.
- **Operating Status Awareness** - Switch design provides visual and tactile confirmation of ON/OFF and operating status with no guesswork; visual confirmation prevents inadvertent battery discharge in the IR operating mode.
- **Versatility** - “Attach Patch” series of secure helmet, MOLLE, and equipment attachment means including self-adhesive, sew-on, tie-down, and loop-around.
- **Battery** - The single CR123 cell can be replaced in the field.



Made in the USA

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HEL-STAR 6[®] SWIR

MODEL/PART NUMBER OPTIONS

HEL-STAR 6[®] SWIR Helmet Mounted Personnel Marker, Multi-Spectral

"X" = Two SWIR LEDs, no "X" = 4 SWIR LEDs, 890nm (NIR) is always 4 LEDs

CORE P/N	Mode A Functions		Mode B Functions	
	A1	A2	B1	B2

-200 Series: 1064nm SWIR LEDs

HS-640-201X	GR(S)	GR(S) + WH(F)	1064nm SWIR (F/B) 2X	1064nm SWIR (F/B+) 2X
HS-640-202	GR(S)	RD(S)	890nm NIR (S) 4X	1064nm SWIR (S/B) 4X

-300 Series: 1300nm SWIR LEDs

HS-640-301X	GR(S)	GR(S) + WH(F)	1300nm SWIR (F/B) 2X	1300nm SWIR (F/B+) 2X
HS-640-301	GR(S)	GR(S) + WH(F)	1300nm SWIR (F) 4X	1300nm SWIR (F/B) 4X
HS-640-302X	RD(S/B)	RD(F/B)	890nm NIR (F/B+) 4X	1300nm SWIR (F/B+) 2X
HS-640-302	RD(S/B)	RD(F/B)	890nm NIR (F/B+) 4X	1300nm SWIR (F/B) 4X
HS-640-303X	GR(S)	GR(S) + WH(F)	890nm NIR (F) 4X	1300nm SWIR (F/B+) 2X

-400 Series: 1550nm SWIR LEDs

HS-640-401	GR(S)	GR(F/B)	1300nm SWIR (F/B) 4X	1550nm SWIR (F/B) 4X
HS-640-402X	GR(S)	GR(F/B)	1064nm SWIR (F/B) 2X	1550nm SWIR (F/B+) 2X
HS-640-402	GR(S)	GR(F/B)	1064nm SWIR (F/B) 4X	1550nm SWIR (F/B) 4X
HS-640-403	GR(S)	RD(S)	1300nm SWIR (S/B) 4X	1550nm SWIR (S/B) 4X
HS-640-404X	WH(F)	890nm (F/B)	1064nm SWIR (F/B) 2X	1550nm SWIR (F/B+) 2X

Standard Body Color is in Tan. Add "B" to end of the P/N for a Black Body.

Operating Options

Color Code		Signal Type	Signal Intensity
BL = Blue	RD - Red WH = White	S = Steady	Dim, Standard, Bright, Bright+
GR = Green	WH = White	F = Flash (60 fpm) FN = NATO Flash (30 fpm)	"Bright+" is significantly brighter than "Bright" All White Flash are "Bright" to meet FAA 3 statute mile visibility. * Higher intensities shorten battery life
IR = NIR Infrared	SWIR = Short Wave Infrared	Morse Code Letters A, D, K, V, Z, SOS	
P = Tactical Field Reprogramming with a PIM		C = Civilian Field Reprogramming with a PIM	All units have an integrated tie down

HEL-STAR 6[®] SWIR is ITAR controlled and cannot be shipped or carried outside of the U.S. without written permission from the U.S. Dept of State.