



HEL-STAR F² is a helmet-mounted multi-function overt/covert personnel marking device combined with active IFF interrogation acquisition, response, and alert capabilities.

F² retains the original HEL-STAR 6[®] form factor, along with four marking functions in two separate operating modes (e.g. overt and covert). Discrete user-defined functions are available in White, Green, Blue, Red, Amber and IR. The user can select combinations of color/emissions, steady or flash operation, and intensity levels.

F² features field re-programming capability, enabling users to change each of the four pre-set functions on-demand with a wireless handheld re-programming device. A default feature returns the unit back to original factory settings.

When the **F²** is interrogated by specified military lasers, the **IFF** features interpret the signal, and responds back to the interrogator immediately with a user-specified flash-back pattern in IR. A simultaneous alert is sent to the user/wearer via a vibrating pad routed by a small cable to the inside the helmet.

F² **IFF** features can protect the user/wearer with more than a full hemisphere of line-of-sight sensitivity which has been field tested and verified in excess of 800 meters.

F² **IFF** features are always ON when the device is operating in any of the four marker functions. As the mission environment changes, the IFF features can be selected ON when the emitters are OFF—or all functions including the IFF can be turned OFF.

A thumb-activated operating status switch to the left of the main switch provides immediate confirmation that the IFF is active. Actual operating status is unambiguously confirmed by determining the positions of the two sliding switches with gloved hand.

F² exceeds the FAA 3-stature mile visibility requirement in the white/strobe mode. It is shock and vibration resistant, dustproof and has been tested waterproof in open sea conditions to 130 feet (laboratory tested to 300 feet).

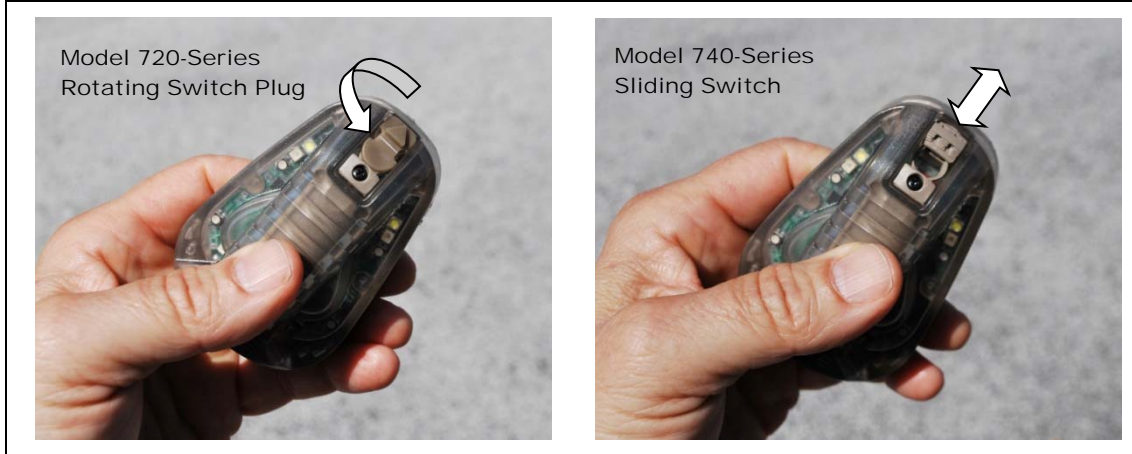
HEL-STAR F² is a supplemental IFF safety device and is not as a substitute for standing rules of engagement.



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HEL-STAR F²

OPERATING OPTIONS



Main Switch: 0=Off, Functions 1 & 2
 Nose SW/Plug: ▲=Mode A, ▼=Mode B

Operating Options

Color Code	Signal Type	Signal Intensity
BL = Blue	S = Steady	Dim, Standard, Bright, Bright+
GR = Green	F = Flash (60 fpm)	"Bright+" is significantly brighter than "Bright" ** Higher intensities shorten battery life
RD - Red	FN = NATO Flash (30 fpm)	
IR = Infrared	Add "B" to the end of a part number to order HEL-STAR F ² in a black body.	All White Flash are "Bright" to meet FAA 3 statute mile visibility.
WH = White		

All HEL-STAR F²® models are ITAR controlled and cannot be shipped or carried outside of the United States without express written permission from the United States Department of State.

Made in USA

U.S Patents 9144261, 9175837, 9175838, 9341714, 9476982

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