![Esterline Control & Communication Systems logo]

Korry® engineered solutions for demanding HMI requirements

• Programmable controls for flight director displays and other systems
• Modular common cockpit keysets (CCKs) in horizontal and vertical formats
• High-reliability MIL-spec performance in harsh environments

# Versatile HMI solutions for high reliability in air, shipboard, and ground applications

At Esterline we are committed to applying our proven HMI technologies to our customers' most challenging standards. Our Korry solutions deliver high-reliability information display and control for defense crewstations in the toughest airborne, naval, and ground environments.

We draw on our range of expertise in optics, electronics, software, mechanical packaging, and mechanism design, not to mention our proprietary technologies in illumination, displays, switch panels, switches, and indicators. Our multidisciplinary teamwork means you receive fully developed, cost-effective, plug-and-play solutions.

Korry Programmable Keyset

This programmable keyset originally developed for the UH-60M Blackhawk helicopter is an all-LED, NVIS-compatible solution with modular architecture for streamlined reconfiguration and maintenance. Featuring alphanumeric LED displays, encoder knobs, and lighted pushbuttons, it weighs less, draws less power, and costs less than competing solutions. More than 2,000 units have been deployed worldwide.

Dimensions	5.24 H x 5.74 W x 2 D inches (excluding rear connector)
Weight	NTE 2.5 pounds (1.13 kg)
Power	28 VDC, 40 W max, MIL-STD-704A
Data interface	ARINC 429, RS-422, MIL-STD-1553, and others
Environmental conditions	RTCA/DO160E, MIL-STD-810F
Operating temperature	-40° to +55° C operation, -54° to +71° C storage, 20,000 ft operation, 50,000 ft storage
Software	MIL-STD-498
EMI	MIL-STD-461E: CE101, CE102, CE103, CS114, CS115, CS116, RE101, RE102, RS101
Electromagnetic environmental effect	MIL-PRF-ADS37A, Table I, >200 V/m
NVIS lighting	MIL-L-85762A
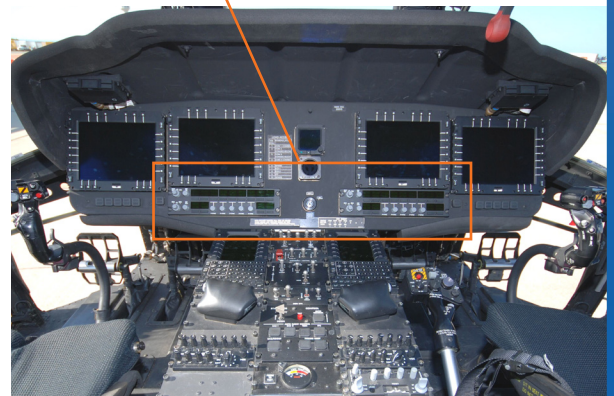
HMI Solutions, Cont'd

Korry Keypad Panel

We engineered this all-LED, NVIS-compatible keypad panel for the CH-53K Super Stallion, the largest and heaviest US military helicopter. Our panel weighs less, draws less power, and costs less than competing solutions, yet stands up to the harshest environments.

Dimensions	5.625 H x 6.75 W x 3 D inches
Weight	<2.7 pounds (1.22 kg)
Power	MIL-STD-704F
Data interface	ARINC 429
Environmental conditions	MIL-STD-810F, RTCA/DO-160E
Operating temperature	-40° to +55° C continuous
Software	RTCA-DO 178B
EMI	MIL-STD-461E
Electromagnetic environmental effect	MIL-STD-464A, ADS-37A-PRF
NVIS lighting	MIL-L-85762A, MIL-STD-3009

Korry Common Cockpit Keyset

We have teamed with air, shipboard, and ground vehicle customers for more than 30 years to produce Korry cockpit keysets for US and allied forces. This versatile interface can be configured horizontally or vertically and can be used across multiple platforms to simplify logistics and maintenance. Units are NVIS compatible, fully sunlight readable, and meet strict environmental standards, including the most demanding naval requirements. Nearly 1,000 of our common cockpit keysets have been deployed worldwide.

Dimensions	5.245 W x 16.445 H x 0.650 D inches
Weight	NTE 5.5 pounds (2.5 kg)
Power	Displays: 3.3 VDC, +/- 0.25 VDC Logic: 5.0 VDC, +/- 0.25 VDC Panel luminance: 0-4.2 VAC, +/- 0.050 VAC, 400 Hz
Environmental qualification	IAW MIL-STD-810E and RTCA/DO-160C
Shock	MIL-STD-810E, Method 516.4, Procedure VI
Operational temperature	-40° and +55° C with 30 minutes of operation at +70° C
Humidity test	RTCA/DO-160C, Section 6.0, Severe Humidity Environment Category B
Salt spray	RTCA/DO-160C, Section 14.0, Category S
Rain test	RTCA/DO-160C, Section 10.0 of Category W
EMI	MIL-STD-461E: CE101, CE102, CE103, CS114, CS115, CS116, RE101, RE102, RS101
NVIS lighting	MIL-L-85762A
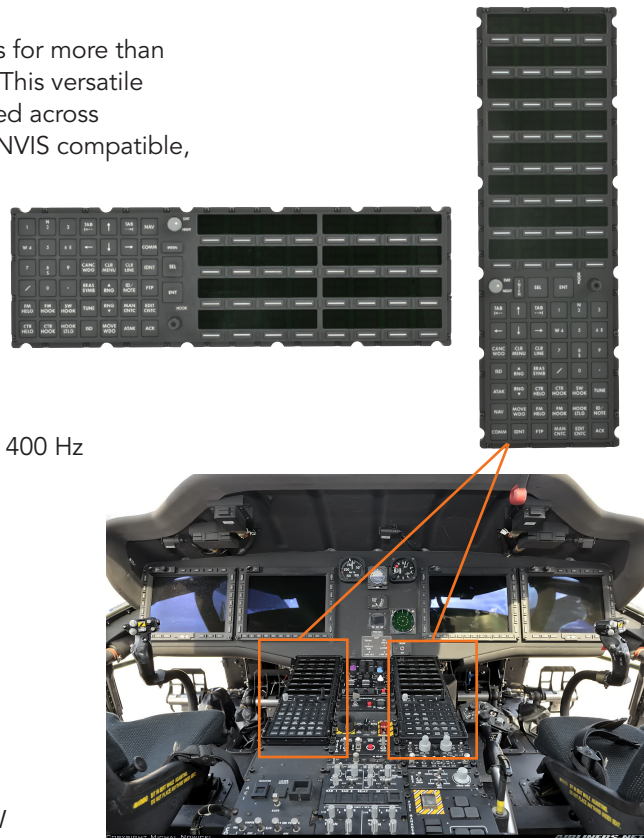
For more information about Korry engineered HMI solutions, email korry.sales@esterline.com or call 425-297-9700.

Esterline
11910 Beverly Park Road
Everett, WA 98204
425-297-9700
www.esterline.com

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