



# APEM

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EXPERT IN COMBAT-PROVEN HMIs INCLUDING MIL-GRADE COMPONENTS

## APEM'S EXPERTISE IN THE US DEFENSE INDUSTRY

For more than 70 years, we have collaborated with US leading defense companies. Our national and international track record helped us build one of the widest ranges of customizable HMI solutions dedicated to the US defense industry.



Several of our products (joysticks) are manufactured in our factory in California



APEM produces products that meet or comply with Military standards and certifications including MIL-DTL-3950, MIL-DTL-83731



Toggles, LED indicators, and joystick used to control remote weapon station and interior lighting



Toggles, estops and switch guards used on a control panel



Two US offices to assist our customers (East and West coast)



Extensive US distribution network to cover all US states



Thumbsticks and pushbuttons to improve ergonomoy of a UAV remote controller



# FROM STAND-ALONE COMPONENTS TO CUSTOM ASSEMBLIES OUR LINEUP

APEM's quality system ensures that number of our switches comply with multiple certifications as MIL-STD-3950, -83731 and CECC quality standard (96401-001, 96201-005, 96201-008) taking into account critical factors such as external design, rigorous testing and expected performance. Our solutions are designed to be robust and reliable to withstand harsh environments, maintaining optimal functionality in dust, humidity and temperature variations during military operations ensuring security of operators.

Flexibility and customization are also the cornerstone of our defense solutions, which adapt to changing international requirements and evolving standards. This enables their durability through integration into new commands and improves operational efficiency, ensuring a long service life for extended missions.

For these military vehicles, APEM provides HMI solutions making remote control commands more intuitive knowing stressful situations of operators managing complex air and/or ground missions.

These interfaces are specifically designed to facilitate natural and effective interaction between the operator and the vehicle, enabling rapid and accurate decision-making in demanding operational contexts.

From joysticks to pushbuttons and toggles, you will find in this selection, APEM certified products customizable to suit your specific military needs.



## Our selection

Custom options available. Please contact APEM for further details.

JOYSTICKS				THUMBSTICKS			PANEL
3000	FG	XD	TS	NV	HR	CW	Ruggedized military keyboard
IP66 1,2, or 3 axis	IP65 Rugged hand operation	IP67 SIL 2 compatible - Redundant Hall sensors	IP67 1 or 2 axis	IP69K 4 or 5-direction switch-based joystick	IP68 Spring to center return	Snap-in mounting Analog or PWM outputs	Customization options Compliant with MIL-STD, ABD, and DO160 requirements.
PUSHBUTTONS & TOGGLES (WITH SWITCH GUARDS)						LED INDICATORS & ESTOPS	
I series	MTG	5G	MSG	12000X778 & 13000X778	WP	QRM & Q series	ES
IP67 bushing Ø12 mm	IP68 Applications up to 4 A	IP67 NO or NC/NO	Robust Different mounting options	Tested per MIL-DTL-3950 MIL-DTL-83731	IP69K Double pole	IP69K Double pole	IP69K Lower behind-panel depth



## APEM RELIABILITY

- Vertically integrated
- Military products are 100% tested
- NATO Manufacturer code F7507
- Product designs and qualifications based on MIL STD 810, 1472, and 461
- QPL products (MIL-DTL-3950 and MIL-DTL-83731)

United States - East Coast  
10 New England Business Center DR Suite 203 Andover,  
MA 01810 USA  
(+1) 978 372 1602

United States - West Coast  
970 Park Center Drive  
Vista, CA 92081 USA  
(+1) 760 598 2518



www.apem.com