

# Human Machine Interface Solutions

Taking Control Of Technology



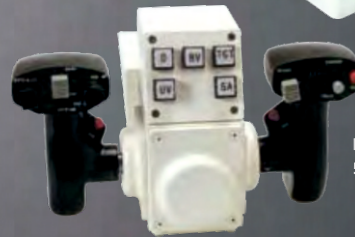
CROWS II Remote Weapon Station Control Grip  
1505 Series



FMCU™ (patented)



STRYKER Remote Weapon  
Station Control Grip  
502 Series



Future Combat Systems Control  
540 series



Hall-Effect Control ITSS Marine LAV  
502 series

## Services / Capabilities

- >> ERGONOMIC / HUMAN FACTOR PRODUCTS AND SOLUTIONS
- >> OFF-THE-SHELF PRODUCT DESIGN AND CUSTOMIZATIONS
- >> CUSTOMIZED PRODUCT DESIGN
- >> RAPID PROTOTYPING
- >> LARGE VOLUME PRODUCTION
- >> MECHANICAL, ELECTRICAL AND SOFTWARE DESIGN CAPABILITIES
- >> REVERSE ENGINEERING
- >> BUILD TO PRINT
- >> MARKET-BASED R&D
- >> TECHNOLOGY ANALYSIS
- >> NEW PRODUCT DEVELOPMENT
- >> SYSTEMS ENGINEERING
- >> ESS TESTING
- >> PRECISION ELECTROMECHANICAL ASSEMBLY
- >> QUALIFICATION TESTING

### Offerings

#### HMI Devices:

- Miniature Joysticks
- Hand Controls
- Control Grips and Handles
- Vehicle and Flight Controls
- UAV, UGV, USV Controls
- Weapons Controls
- Payload/Sensor Controls
- Gunners/Commanders

#### Human Systems Integration:

- Tablet-based Systems
- Portable C2
- Dismounted C4
- Situational Awareness/ISR
- Soldier Systems
- System/Interface

### Customers

#### Defense Primes:

- Raytheon
- Northrop Grumman
- General Dynamics
- Boeing
- Lockheed Martin
- BAE Systems
- ST Kinetics
- General Atomics

#### Tier One:

- GHS Technologies
- Kongsberg
- L3
- FLIR Systems
- QinetiQ
- Thales

### Differentiators

#### HMI Devices:

- Traditional HMI Approach -- "Manning the Equipment"
- Patented Non-Contact Sensor Technology
- Broad Product Technology Range -> Optimal Solutions
- CONOPS backwards Solution Process
- Extensive Military Program Experience and Knowledge
- Advanced Common Controllers including Gaming Style Controls
- "Smart" Controls (System, Prognostics, Diagnostics, etc.)
- Innovative, Modular Design Concepts
- SWaP

#### Human Systems Integration:

- Innovative Approach -- "Equipping the Man"
- Portable Controls and Systems -- Human Factors optimized
- CONOPS backwards Solution Process
- Dismount capability for existing Systems -- Human Factors optimized
- Rugged hand-held Tablet Systems with Control capability
- Dismount or Man-Wearable Systems/Control
- Classified Programs (Facility Clearance)
- SWaP

### Application Areas of Expertise (CONOPS)

- Platform Mounted Weapons Systems/Fire Control Systems
- Unmanned Systems Ground & Payload Control Stations
- Space Flight
- Airborne Command and Control Systems
- Flight Controls
- C4ISR
- Military Simulation

- Remote Weapon System/Remote Turret Fire Control Systems
- Cockpit Cursor Controls/Cockpit Controls
- Forward Base Protection
- Surveillance including Recon vehicle control
- Camera/FLIR control
- Dismount or Man-Wearable Systems/Control
- Classified Programs (Facility Clearance)

### MSI Best Practices

- AS9100 Rev. C Certified
- Lean Manufacturing/6S
- LAUNCH-based Customer interaction/teaming concept
- CONOPS backwards solution approach
- Human Factors Engineering
- Supply Chain Management
- Active PMO

### Development Areas

- Mobile Hand-held Systems
- Wearable Devices and Systems
- Advanced input methods (Voice, Gesture, etc.)
- Real-Time Data Analytics
- Embedded Systems
- Classified Business