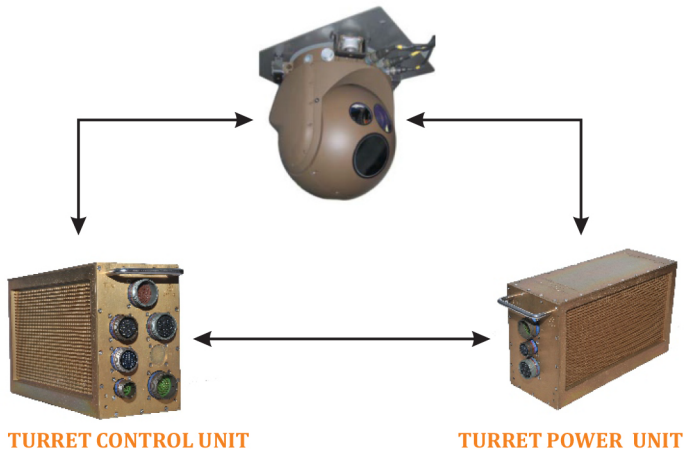


Turret Electronics unit is a Servo control system developed for control of Rudders and Turret systems on-Board a ship or an Aircraft.

The current system has been developed for a Turret on-Board a ship and the system is Qualified as per MIL-STD 461-D.



The schema shown is an overview of the system.

Turret Electronics unit consists of two sections.

- Turret Control Unit for Controlling the Turret.
- Turret Power Unit to drive the Servo System.

The unit is controlled through a Joystick and application software built in Real Time operating system. The command control routines are built in software for guidance of the turret.

TCU TECHNICAL SPECIFICATIONS

- Multi-Processor with Real Time multi-tasking environment.
- Dual channel 16-bit Resolver to Digital converter.
- Communication Through RS-422 and RS-232 channels.
- House Keeping and Mode control.
- Application Downloading Facility.

APPLICATIONS

- Ship Borne Turret
- Rudder System
- Airborne Rudders
- Tank Gun Control System
- Pedestal Control Applications

Turret follows a four Gimbal approach in Az, EL direction. The servo motors accepts commands from Joystick through real time OS resident.

The Turret operates in four modes this being a ship borne application all the four modes are implemented. The modes vary for Tank Turret and Airborne Turret and Launcher systems.

TURRET SPECIFICATIONS

- 4 Gimbal Approach for control in Elevation and Azimuthal directions
- **Operating Modes**
 1. Standby Mode
 2. Rate Mode
 3. Position Mode
 4. Window washing Mode
- Accepts steering commands from the Joy stick.
- Weight 90Kgs.

TPU TECHNICAL SPECIFICATIONS

- PWM based Servo power Amplifiers for driving Torques
- Maximum Power Output 240W for Azimuth and Elevation D.C Motors , 140W for Azimuth and Elevation D.C Geared Motors.
- Bandwidth is 1KHz.
- Enabling/Disabling of Individual Motors.
- Size : 396 x 124 x 193 mm

* Note : Specifications are subject to change without notice