QuickSet®
Defense Technologies, LLC

SENSOR & SURVEILLANCE SYSTEMS : **PAN & TILT POSITIONERS**

MPT-130

RF PAN & TILT POSITIONER

Compact. Rugged. RF-Ready.

The MPT-130 RF Positioner builds upon the proven strength and reliability of Quickset's legacy systems, now enhanced with a next-generation electronics package tailored for mission-critical RF applications. Engineered for precision motion and robust environmental performance, the MPT-130 RF is specifically designed to support RF payloads requiring continuous rotation, high torque, and advanced communication capabilities.

This model supports dual RF channels and integrates seamlessly into tactical, communication, and surveillance systems, offering superior flexibility and operational efficiency. Each unit is equipped with an integrated Health and Usage Monitoring System (HUMS), providing real-time diagnostics and predictive maintenance insights to extend the life of critical equipment.

An embedded web server enables intuitive discovery and control of all positioners and integrated components across a network, eliminating the need for third-party software. Enhanced velocity control allows for finer resolution in speed and acceleration, improving performance in tracking and scaling applications. Additionally, the MPT-130 RF features multiple configurable communication ports, ensuring streamlined payload integration and reliable data transmission across diverse mission environments.

KEY FEATURES

- Supports Payloads up to 140 lbs
- Tilt Torque up to 130 ft-lbs (176 Nm)
- Continuous Pan Rotation
- Dual RF Channels with N-type Connectors
- Integrated Health and Usage Monitoring System (HUMS)
- IP67 for Harsh Marine Environments

MPT-130 RF PAN & TILT POSITIONER : SPECIFICATIONS

QuickSet® Defense Technologies, LLC

PERFORMANCE

Pan Range	Continuous rotation
Tilt Range	±90° (180° total)
Pan Speed	0.005° to 20.0°/sec
Tilt Speed	0.005° to 6.0°/sec
Repeatability	0.05°
Resolution	0.01°
Encoders	Incremental magnetic on each axis
Limits	Mechanical (tilt only), software (both axes)

RF SPECIFICATIONS

FEATURE	8-ZF151	8-ZF351-1818G
Bandwidth	DC–8.0 GHz	DC–18.0 GHz
Peak Power	1000 W	2000 W
Channel Isolation	50 dB	50 dB
Rotary Joint Lifetime	5M revolutions	25M revolutions
VSWR (CH1)	1.2–1.35	1.35–1.75
Insertion Loss (CH1)	0.25–0.4 dB	0.4–1.0 dB

See full spec sheet for detailed RF channel power, VSWR variation, and insertion loss variation.

PHYSICAL & ENVIRONMENTAL

Weight	81 lbs (36.8 kg)
Dimensions	18.5″ W × 18.02″ H × 9.5″ D
Drive System	Stepper motors with hardened steel worm gears
Materials	Aluminum 356-T6 housing, stainless steel hardware
Finish	Powder coat (custom colors available)
Operating Temp	–32°C to +55°C
Storage Temp	–40°C to +70°C
Environmental Rating	IP67

SENSOR INTEGRATION

Multi-Spectrum Cameras and Housings (Visible/NIR/SWIR/MWIR/LWIR)
IR and Visible Illuminators
Laser Range Finders
Communication Antennas
Acoustic Devices
Radar Systems
Global Positioning Systems

COMMUNICATION

Control Interfaces	RS232/422/485, Ethernet 10/100 Base-T
Payload Interfaces	• Serial pass-through • IP tunneling • Quickset PTZ protocol, Pelco D (limited)
Video Pass-Through	Dual analog video ports
Ethernet Pass-Through	1000 Mb/s (Port 1)
RF Pass-Through	2 channels

HEALTH & USAGE MONITORING

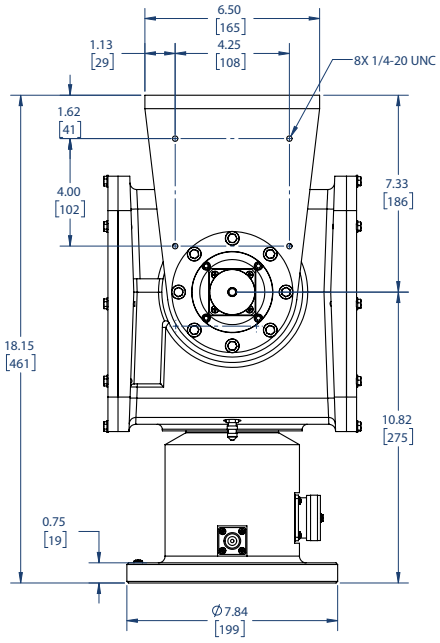
Duty Cycle Tracking
Odometer (degrees traveled)
CPU Temperature
Voltage and Current Diagnostics (5V, 12V, 24V)

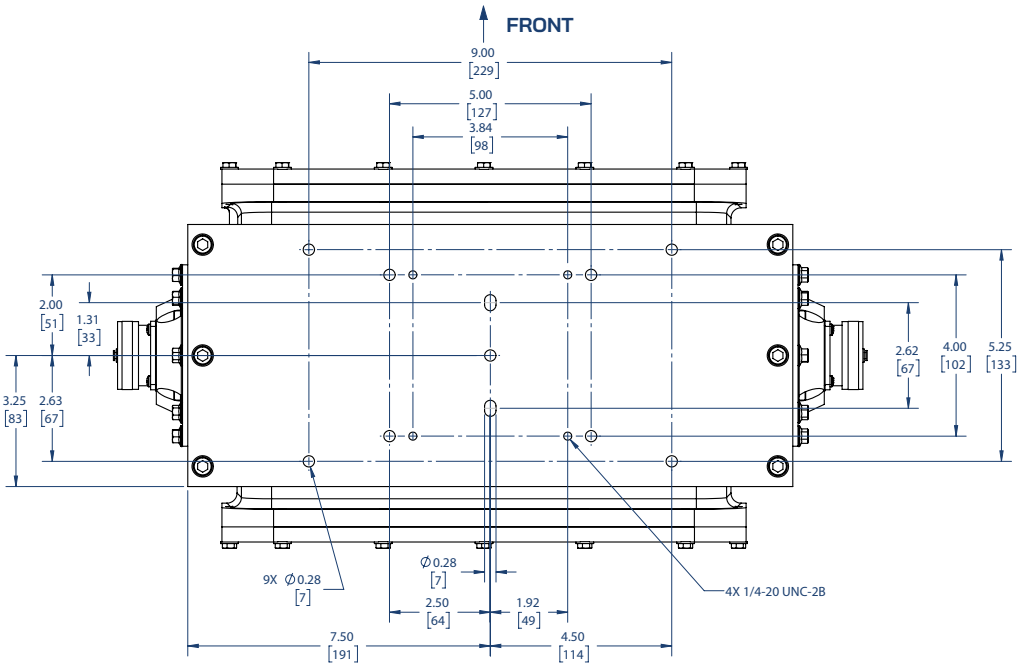
POWER

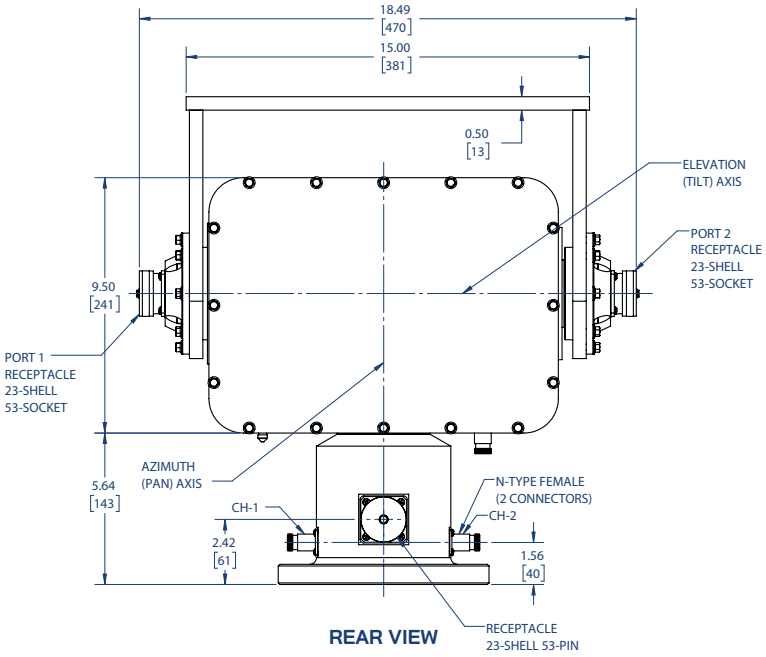
Operating Voltage	48-52 VDC
Payload Power	• Regulated: 5V, 12V, 24V @5A each (max) • Total board power: 8A max • Direct pass-through: 7.5A per circuit (2 circuits)
Lens Control	Focus & Zoom: 12VDC, 1A max per channel (2 ports)

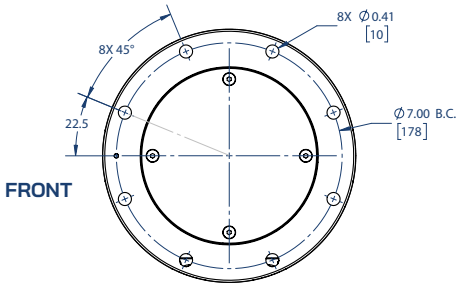
MPT-130 RF PAN & TILT POSITIONER : DIMENSIONS

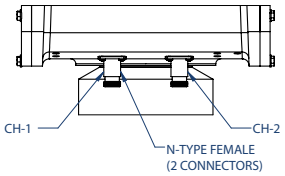
MODELS 8-ZF151, 8-ZF351-18G18G











MADE IN USA

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