



# OceanTools

## PT330

### Underwater Pan & Tilt

The **OceanTools PT330** is a *rugged* and *compact* pan & tilt unit with optional absolute positional feedback and low backlash harmonic drives, designed for a wide range of subsea and underwater applications.



## Overview

The **PT330** may be controlled via RS232, RS485 or by switching  $\pm 24\text{VDC}$  onto each axis. In addition, the **PT330-FB** unit offers **absolute positional feedback** rather than relative positional feedback. Unlike other pan & tilt units, it remembers its pan & tilt positions – even after being powered down.

The units are manufactured using extremely high quality components including brushless DC motors, low backlash harmonic drives and heavy duty bearings on the output shaft.

A simple-to-use graphical user interface is supplied free of charge with each unit to allow control from a PC or laptop. The **PT330-FB** also supports command and display of parameters, positional feedback, saved position, limit end-stops, etc.

Multiple units may be connected to a single RS485 twisted pair and a single 24VDC power supply.

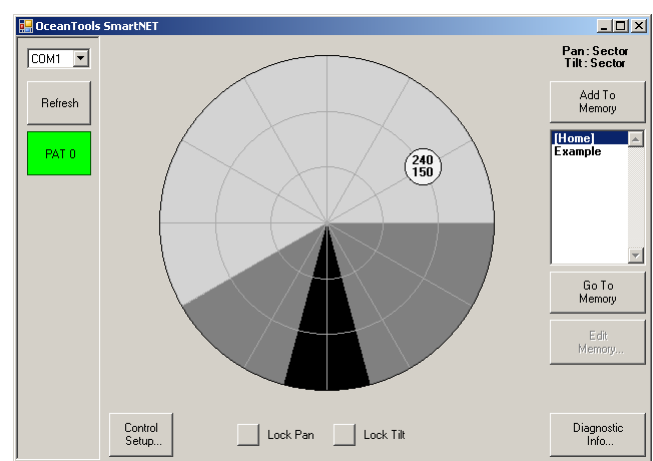
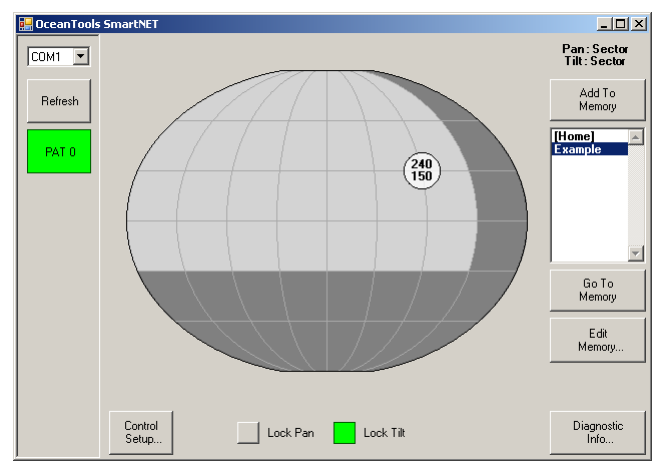
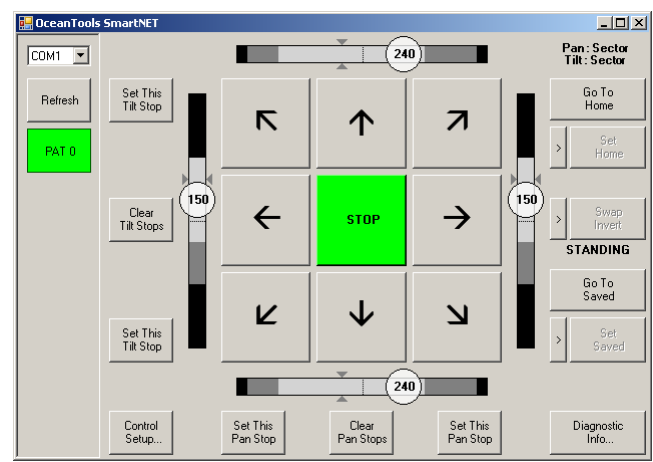
## Key Features

- 3000m rated, oil compensated, compact and rugged
- Moves in both axes simultaneously
- High accuracy  $1^\circ$  absolute positional feedback option
- Telemetry or voltage control

Specifications	
Pan range	330°
Tilt range	180°
Maximum output speed	5°/sec
Feedback resolution	1° (PT330-FB only)
Voltage input	24VDC
Maximum drive current, per axis	1.0A @ 24VDC
Quiescent current	60mA @ 24VDC
Safe working load	10kg
Output torque	up to 6Nm
Gear backlash	34 arcmin
Standard connector	MCBH8M

Dimensions	
Height	340mm
Width	280mm
Depth (excl connector)	100mm
Weight in air	7kg

Environmental	
Depth rating	3000m
Operating temperature	-20°C to +50°C
Housing material	Delrin and Stainless Steel



Product datasheets, GA drawings, case studies and other supporting documents are available to download from [data.oceantools.co.uk](http://data.oceantools.co.uk)  
 All specifications are subject to change without notice. E&OE.

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