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For Immediate Release

DIRECTED PERCEPTION PAN-TILT PROVIDES REAL-TIME POSITIONING OF VERY LARGE PAYLOADS

Rugged outdoor unit delivers precision, power and speed in small footprint

BURLINGAME, California. March 18, 2008 - Directed Perception, Inc. today announced the availability of its PTU-D300-EX model computer controlled pan-tilt units. The PTU-D300-EX builds on the highly successful PTU-D300 platform to provide fast, accurate positioning for payloads to 90 lbs.

Long-range Sensing and Communications

The PTU-D300-EX provides the torque required for positioning large payloads such as long-range cameras and directional antennas. Applications include airborne surveillance cameras and communications, shipboard day/night vision systems, military and police ground vehicle camera systems, border and perimeter surveillance, intelligent video surveillance, force protection systems, industrial automation, and scientific R&D applications.

Advanced feature set, low cost, off-the-shelf availability

In the past, high-performance pan-tilt systems have been custom-designed for a specific application. This drives up costs, and reduces availability. Military and industrial customers today demand proven COTS solutions that can be put to work immediately, and without large engineering costs. The PTU-D300-EX meets that need.



The patent-pending mechanical design uses an all-steel worm gear design for superior dynamics and rigidity – no belts or pulleys. Specific performance features include:

- n Payload capacities of 90 lbs (side mount) and 60 lbs (top mount)
- n Fully controllable pan and tilt speeds ranging from below 0.0064 °/second to 22 °/second
- n +/- 0.0064 ° positioning resolution in both pan and tilt axes
- n 360° continuous pan with internal payload wiring

The PTU-D300-EX includes a fully-integrated controller with digital commands for fine-grained control of speed, acceleration, position limits, and power modes. Unit can be commanded in terms of either position or velocity and allows on-the-fly command changes to support dynamic tracking applications. Both RS-232 and RS-485 interfaces are built-in and an Ethernet option is available. Control software interfaces available include a LabView driver and a C source-code API for use with embedded or desktop CPUs.

The PTU-D300-EX is constructed of anodized machined high-grade aluminum and provides a sleek, integrated package with flexible payload and pan-tilt mounting options. Packaging features include:

- n Rugged all-weather design (IP67) with wide-range operating temperature (-30° to +70° C)
- n High duty cycle design (3-5 million cycles)
- n Single 9-30VDC power input
- n Single MIL-style connector for all signals and power. Pass-through of payload signals including power, video, and serial control.
- n Compact size (11.6” x 5.53” x 8.53” not including payload bracket)

Designed for easy customization for advanced OEM applications

The PTU-D300-EX has a number of design features to support rapid customization to meet specific OEM requirements. Customization options include changes in: payload connectors/cabling, mounting brackets, slip-rings, encoders, and network interfaces.



Price and Availability

The PTU-D300-EX is available now. Pricing depends on configuration.

About Directed Perception, Inc.

Directed Perception is a leading manufacturer of innovative devices and software for the intelligent control of sensors and sensor processing including video cameras, IR sensors, laser rangefinders, microwave antennas, thermo-imaging sensors, and more. Directed Perception offers a complete line of pan & tilt devices for computer-controlled positioning of lasers, microwave antennas, thermal cameras, video cameras, IP cameras, and more in both indoor and outdoor environments. Directed Perception's pan-tilt devices offer high speed, precision, durability, and small form factors. Directed Perception serves systems integrators and OEMs in mission-critical applications including surveillance, sensor fusion, automated detection and tracking, robotics, communications, border security, machine vision, and automated test in military, aerospace, and industrial markets.

Directed Perception has a 16-year history of pioneering camera and sensor control systems. In commercial markets, Directed Perception serves market leaders such as IBM, Bechtel, iRobot, Cognex, Honeywell, and hundreds of major universities and small, innovative companies worldwide. In military and homeland security markets, Directed Perception has helped companies such as General Dynamics, Harris Corporation, Northrop Grumman, Raytheon, Boeing, Lockheed Martin, BAE Systems, and SAIC to serve the needs of the most demanding customers including the U.S. Armed Forces, U.S. Government, and NASA.

Directed Perception is privately held and headquartered in Burlingame, in Northern California.

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PTU-D300-EX – Extreme-Duty Pan-tilt (dual-side configuration)