



For more information contact:

Marilyn Elperin

(650) 692-3900

FAX: (650) 692-3930

melperin@DPerception.com

www.DPerception.com

For Immediate Release

**DIRECTED PERCEPTION PAN-TILT PROVIDES REAL-TIME
POSITIONING OF MEDIUM 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-D100 family of computer controlled pan-tilt units. The PTU-D100 is a low-cost, mid-range intelligent pan-tilt suitable for fixed and mobile applications in military and industrial markets. The extremely rugged all-in-one design is compact and has flexible mounting options for single, or multiple payloads including video cameras, lasers, antennas, and thermal imagers. Built-in dynamic control capabilities include on-the-fly speed and position command changes at over 60Hz supporting a wide range of applications including real-time tracking. An available software API supports integration with custom applications. Geo-pointing and stabilization options are available. Here is what customers are saying about the PTU-D100:

“We began looking for a partner to provide pan-tilt subsystems early in development of the Discoverii platform. We found that Directed Perception offered a complete range of size and price/performance options that also met our important requirements for accuracy, durability, and reliability. The performance of the **PTU-D300** and **PTU-D100** products have exceeded our expectations and the Directed Perception team provided outstanding support during our entire development and product introduction process.”

– Chris Ruttle, CFO/COO , VUMII, Inc.



Meets today's need for complex sensing and communications applications

The PTU-D100 provides the most complete set of features available in a cost effective package to address a wide range of modern sensing and communications applications that require real-time pointing of cameras, antennas, and other sensors. 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.

The integrated design of the PTU-D100 provides a complete turn-key positioning solution for fast, accurate, dynamic, computer-controlled positioning of pan and tilt through a wide range of motion. Sensor and communications systems designers can save months of product development time by using the PTU-D100 as a complete, drop-in positioning solution. The accuracy, high speeds, and dynamic control capabilities of the PTU-D100 enable applications such as long-range automated detection and tracking, which were previously difficult or impossible to implement in a cost-effective manner.

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-D100 meets that need.

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

- n** Payload capacities of 25 lbs (side mount) and 15 lbs (top mount)
- n** Fully controllable pan and tilt speeds ranging from below 0.0075 °/second to 120 °/second
- n** +/- 0.0075 ° positioning resolution in both pan and tilt axes
- n** 360° continuous pan with internal payload wiring



The PTU-D100 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-D100 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 (11.2" x 7" x 7.9" not including payload bracket)

Designed for easy customization for advanced OEM applications

The PTU-D100 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-D100 is available now. U.S. pricing is \$5900 (Quantity 1) for standard 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.

###



PTU-D100 – Intelligent Mid-Range Pan-tilt (dual-side configuration)



PTU-D100 – Intelligent Mid-Range Pan-tilt (top-mount configuration)