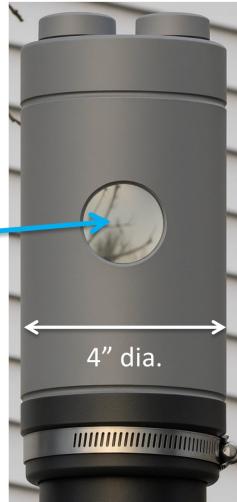




Forward-Pivot Pan-Tilt™ for Outdoor Covert Cameras and Drones

By Steve Morton, CEO, CTO, BSEE/MSEE MIT, 25 U.S. Patents

Small, rugged, low power, **Forward-Pivot Pan-Tilt™** mechanism inside



Long before I built The Ghost™ and The Rabbit™ Anywhere Outdoor Cam™ (see photo at left), I was fighting three problems in covert video: power draw, ruggedness, and conspicuousness. Traditional pan-tilt mechanisms needed too large a window, used too much power and were too fragile.

That led me to invent and patent my Forward-Pivot Pan-Tilt™ mechanism. By moving the pivot in front of the imaging device, it lets the camera get wide pan/tilt coverage while staying compact, close to the center of gravity, and looking through a very small opening. That's how I made The Ghost™ and The Rabbit™ small, rugged, inconspicuous – and able to run weeks, not days, on battery in real law-enforcement deployments.

The same mechanism that solved those problems on poles and in covert enclosures naturally extends to low-drag drone cameras: less exposed mass and frontal area than a big gimbal ball, less drag and torque in wind, and less power wasted on fighting the airframe. For missions where endurance and survivability matter – in law enforcement, critical-infrastructure protection, and national-security ISR – those system-level gains are hard to ignore.

We remain focused on serving law enforcement and critical-infrastructure customers, but as a responsible manufacturer we're also exploring partnerships where my Forward-Pivot Pan-Tilt™ technology can help small drones stay in the air longer with lower signature.

DISCLAIMER: This is concept level for drones. No use or testing in drone applications is claimed to date.

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