



MCS Pan/Tilt Units

Product Line Overview

Accurate. Rugged. Reliable.

The complete line of FLIR MCS high-performance pan-tilts offers unparalleled performance in accuracy, speed, ruggedness, and reliability. All units offer a real-time computer control interface for fast, reliable response in applications such as tracking, scanning, and slew-to-cue. E-Series models include built-in Ethernet/Web interfaces for simple integration with networks and IP cameras. FLIR MCS pan-tilt units are:

- Fully programmable to meet any application requirement. Speeds, accelerations, power levels, and ranges of motion can all be user-programmed for flexible and dynamic operation. E-Series models feature high-resolution digital encoders for fast, reliable absolute positioning.
- Modular and support bracketing options for any type of payload(s), including cameras, lasers, antennas, and other instruments.
- Designed for continuous operation in harsh, all-weather environments and 100% duty cycles to provide years of service without maintenance.
- Advanced capabilities and options, including low-cost inertial stabilization for applications on-the-move, and geo-pointing to easily link pan-tilt pointing with geo-spatial interfaces.






Trusted. Proven. Refined.

FLIR MCS products are the result of solving a wide range of challenging applications in pointing and positioning for more than 18 years, across hundreds of application types for thousands of customers.

This means lower development risk and cost for you and the assurance that your application will work right the first time, and over the long run.

Product Model Families



	Max Payload	Resolution (°)	Speed (max.)	Features
 D300E	90 lbs (40.8 kg)	0.006°	50°/sec.	Stabilization, RF pass-through, slip-ring, IP67
 D100E	25 lbs (11.3 kg)	0.0075°	120°/sec.	Stabilization, slip-ring, top-mount/side-mount, IP67
 D48E	15 lbs (6.8 kg)	0.003°	100°/sec.	Compact, light-weight, IP67, inertial stabilization
 D47	12 lbs (5.4 kg)	0.01°	300°/sec.	Top+side mount, <5.5 lbs.
 D46	9 lbs (4.1 kg)	0.01°	300°/sec.	Ultra-compact, modular controller

All models feature:

- Real-time computer control interface
- 100% duty cycle design
- Precise absolute and relative position control with microstepping
- DC power operation with built-in protection circuitry
- Wide temperature specs, no heaters required
- Wide range of pan speeds (<0.0064°/sec to 300°/sec)
- Flexible mounting of any payload
- Geo-pointing and Inertial Stabilization (option)

Experience in your Application

FLIR MCS helps leading OEMs and systems integrators world wide solve hard problems in sensor positioning and control. FLIR MCS serve a wide range of applications in Security & Surveillance, Remote Sensing, Military Force Protection and Reconnaissance, Robotics, Communications, and Maritime.

About FLIR Motion Control Systems

Founded with a mission to be a leading manufacturer of innovative devices and software for the intelligent control of sensors and sensor processing, Directed Perception was purchased by FLIR Systems, Inc. in late 2009 and renamed FLIR Motion Control Systems, Inc.

FLIR MCS's patented products are used in a wide range of industries, providing precise control of sensors such as video cameras, thermal imagers, laser rangefinders, microwave antennas, and many more. Their flagship miniature computer-controlled pan/tilt tracking mount was one of the first of its kind, and it has been sold to OEMs and end-users worldwide since 1992.

The company has enjoyed continued growth since its inception and has a solid foundation of team, technology, products, and partners to support continued leadership in the market. With design, R&D, and manufacturing facilities headquartered in Burlingame, CA, FLIR MCS works to maintain strong relationships with its suppliers, helping assure prompt delivery and enabling us to meet growing demand.

FLIR MCS sells its products direct and through distributors and partners worldwide. Our management team has decades of experience in a variety of technology areas including machine vision, intelligent sensor control, robotics, networking, and control systems in commercial, R&D, and defense applications; we maintain engineering capabilities in mechanical design, electronics, and embedded and network software development.

Read case studies and learn more at: www.FLIR.com/MCS

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