



TACHOMETER SYSTEM

Model CV440 PhaseTracker™



INTRODUCING THE NEW MODEL CV440 PHASETRACKER™! FIBER OPTIC TACHOMETER SYSTEM

The **CV440 PhaseTracker** will be the new standard for precision and reliability in tachometers for rotating machinery measurements. One of Cognitive Vision's new generation of instrumentation, the **CV440** offers the user outstanding performance at an affordable price. Improvements over previous models include automated detector gain, extended battery life and increased performance for fiber optic cables. The **CV440** operates by directing light via a fiber optic cable to a target and then detecting the reflected light from the target. The unit provides a constant amplitude pulse regardless of machine speed and virtually eliminates spacing and alignment problems. The light guide cable transmits and receives light. Light reflected from the target is picked up by the lens and carried back to the detector circuit.

FEATURES

- Easy to install - no critical alignment, spacing or adjustment
- Constant pulse - regardless of speed
- Ideal for "problem" locations - works from 0.25 in. to 12 in. from the target
- Wide opening range -> 0.05 PPS to < 5,000 PPS
- AC or lithium – ion battery power

9625 Black Mountain Road, Suite 306
San Diego, CA 92126 USA

Tel: 858.578.3778 / Fax: 858.578.2778

instruments@cognitivevision.com / www.cognitivevision.com

Model CV440 PhaseTracker™ Tachometer System



Specifications

Output:

- +3V to +5V Pulse in the presence of reflective target

Operating Temperature Environment:

- Head Assembly (Fiber Optic Cable)
 - 10 degrees C to 110 degrees C (flexible cable movement)
 - 70 degrees C to 110 degrees C (semi-rigid cable movement)
- Electronics Enclosure
 - 0 degrees C to 50 degrees C

Power Source:

- Internal Li-ion battery system with a minimum of 8 hours of operation
- External power brick which accepts power inputs from 90-240 VAC / 50-400 Hertz

Speed Range:

- 0.02 PPS to above 5,000 PPS

Operating Distance:

- <0.25 in to >12 in (<0.64 cm to >30.48 CM)

Controls:

- Power On/Off

Shipping weight / dimensions:

- 5 pounds (2.3 kg) / 2.625 x 7 x 4.125 inches (7.3 x 17.7 x 10.6 cm)

Available Products

- CV440S PhaseTracker : 2 - 5,000 RPM
- CV440M PhaseTracker : 1,500 - 20,000 RPM
- CV440F PhaseTracker : 15,000 - 300,000 RPM

Options

- -101 4 ft (1.2 m) fiber optic cable
- -102 10 ft (3 m) fiber optic cable
- -103 20 ft (6 m) fiber optic cable
- -104 50 yards of reflective tape

PhaseTracker is the trademark of Cognitive Vision, Inc.

Specifications and product availability subject to change without notice.

9625 Black Mountain Road, Suite 306
San Diego, CA 92126 USA
Tel: 858.578.3778 / Fax: 858.578.2778
instruments@cognitivevision.com / www.cognitivevision.com

