

See Everything.

Small & Large Pipe Systems

Ratech

**NEW
PUSH OR
CRAWL
SYSTEM**



Push&Crawl[®] w/ Torpedo Kit

COLOR

Torpedo Push+Crawl System

Ratech push systems can now be used with the torpedo crawler.



Simple Connection Kit

Dual System

Optional Mainline Crawler

"A truly all purpose inspection system. Use it as either a push camera or a mainline crawler system."

The Ratech Electronics has newly developed a simple cost effective adapter kit to transform your new or existing Ratech push camera system into a mainline inspection system.

The Torpedo™ crawler kit allows you to connect the Ratech Torpedo 4 to 8 inch crawler to almost any Ratech push camera system.

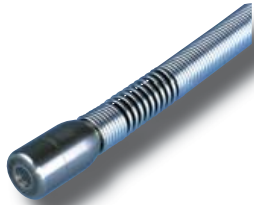
The adapter kit gives the operator the flexibility to inspect a small lateral pipeline and in minutes transform the system into a full function mainline crawler based inspection solution.

Featured at the heart of the kit is the Torpedo crawler. The **TORPEDO Remote Wheeled Camera Transporter** is a self-propelled multi conductor camera transporter. Equipped with a built-in 380 line resolution color camera, it is capable of inspecting 4" to 8" mainline sewers and

water mains from a single entry point. With its powerful 1/8 HP motor, transmission and gearing it will overcome obstacles and make easy work of most lines. The power and controls to operate the transporter are supplied through the existing multi conductor push cable in the camera control unit and the crawler control box.

The Torpedo's **Color Camera** offers a color camera without compromising size or performance. A highly sensitive CCD chip, high intensity lighting, rugged camera with a shock resistant module and anti-scratch viewing lens are all held within a water resistant stainless steel housing that is mounted on the 100% solid state brass crawler.

The cable reel is supplied standard with 200' of Gel Rod push cable (other lengths available) on a lightweight yet rugged steel frame featuring a noise-free slip ring assembly.



optional self leveling

COLOR INSPECTION CAMERA

- Compact camera design - (1.375"D x 1.85"L)
- Inspects from 2 - 10 inch pipes
- 512Hz In-line transmitter
- Shock and water resistant encapsulated high resolution low lux camera module
- High intensity LED lighting with polycarbonate cover
- Scratch resistant high impact sapphire lens viewing window
- Durable stainless steel housing
- Includes 2" sleeve and 3" finned skid
- Heavy duty flexible spring assembly



Torpedo Control Box

TORPEDO CRAWLER KIT

- Connector detaches from push camera and attaches to Torpedo Crawler
- Secondary control box controls crawler movement
- Speed: Variable from 0-50 FPM (Feet Per Minute)
- Inspect 4 to 8-inch pipeline
- Kit works with most existing Ratech camera control units
- Water resistant connectors: 7-Pin ; bulkhead motor housing mounted
- 1/8 HP Heavy duty DC drive sealed motor in a polished brone tractor body
- Power forward and reverse remotely controlled via Torpedo Control Box
- Motor rating: 1/8 HP 90 volt DC, 100% Solid state
- Operating voltage: 0-90 Volts DC (Variable), Operating current: 0-1 Amps DC



Torpedo Motorized Crawler

MONITOR / CAMERA CONTROL UNIT

- Independent 9" color Hi-Resolution monitor (mounted for easy repair or replacement)
- Independent 4-Head VCR with remote (mounted for easy repair or replacement)
- On-screen counter with time, date and keyboard/screenwriter
- Condenser microphone
- Lights: variable intensity
- Camera test socket
- Hard cover carrying case with tilt stand and telescopic handle
- Power: 110-130 VAC, 60 Hz / 12 VDC
- Size: 16.0"W x 19.0"H x 20.0" D
- Weight 45 lbs



PUSH CABLE

- Combination push rod video cable, 0.475"D with low friction polypropylene jacket
- Water-proof dual jacket Gel Rod cable
- 200 feet (60 meters) standard length included (lengths up to 400' available)



Optional Equipment

- Self Leveling Color Camera
- 512Hz Receiver with Depth Readout (also available in Deluxe version)
- Roller Skid for 6" 8" and 10" Straight Runs

Warranty

One year parts and labor against defects in manufacturing. Unit or system must be returned to factory for warranty repairs. Damage caused by user or carrier will not be covered under Ratech's standard warranty

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