

MFE TankMaster PTZ275

When you need to inspect dark, wet vessels and pipes with limited access, reach for PTZ275.

This next-generation robotic camera from MFE Rentals Imaging combines variable zoom video with multimode illumination in one of the most compact pan/tilt packages available. Engineered specifically for tank, pipe, and vessel inspection, PTZ275 travels up to 250 ft on a flexible tether. It passes through openings narrower than 3 inches and submerges to depths of 100 feet. A sophisticated operator interface makes using PTZ275 simple and intuitive. Just connect it to any standard monitor and you're ready to inspect.

- Waterproof Polyurethane Cable, in lengths to 250'; tolerates abrasion, caustic chemicals and tight bends.
- Sealed Connector mates with simple twist.
- 360° Camera Pan grants full circumferential view of vessel internals. Four selectable pan speeds enable moving inspection at varying zoom settings.
- Anodized Aluminum Construction tolerates most chemicals. O-Ring seals yield 100' submersion rating.
- 40:1 Variable Zoom fills monitor screen with small, distant objects.
- 1/4" IT CCD (380,000 pixels) yields HTV resolution of 470 lines for exceptionally crisp video.
- ±110° Camera Tilt grants full view of vessel lid, walls, and base.
- Spot & Flood Lamps (2 each) illuminate targets as far away as 8 ft, or 40 ft in interline transfer mode.



Technical Specifications

VIDEO PERFORMANCE

- Video System Option: NTSC / PAL
- Sensor: 1/4" SuperHAD IT CCD
- Pixels (hor x vert) 768 x 494 / 752 x 582
- Horizontal TV lines 470 / 460
- Lens: 10X optical zoom f 4.2-42 (F 1.9-2.9)
- Digital Zoom: 4X
- Angle of View (hor.): 46 deg (at wide end)
- Min. Object Distance: 10 mm (wide) – 100 mm (tele)
- Min. Sensitivity: 6.0 lux
- S/N Ratio: >50 dB
- Backlight Compensation: on/off selectable
- Auto/Manual Shutter: 1/4-1/10,000 sec. / 1/3-1/10,000 sec.
- White Balance Settings: auto, ATW, indoor, outdoor 1-push WB, manual WB
- Auto/Manual Gain: -3 to 18 dB in 3 dB steps
- Auto Exposure Settings: auto; manual; priority; bright; EV; back light compensation

INTEGRATED CAMERA HEAD

- Pan Range: ±180°
- Tilt Range: ±110°
- Spot Lamps Qty.: 2 (6W)
- Flood Lamps Qty.: 2 (6W)
- Depth Rating: 100'
- Min. Hole Clearance Required: 2.8" Ø
- Construction: anodized aluminum with quartz windows
- Protection: slip clutches on pan & tilt axes

PORTABLE CONTROL INTERFACE

- Video Output: NTSC or PAL (composite and S-video)
- Control Functions: zoom in/out; pan left/right; pan speed; tilt up/down; tilt speed; flood lights on/off & intensity; spot lights on/off & intensity; autofocus on/off; manual focus near/far; gain adjustment; shutter adjustment
- Communications: RS232 port for PC uplink aux. port for optional pendant PS/2 keyboard port for on-screen text editor

DETACHABLE CABLE

- Length: 100' (custom lengths to 250')
- Construction: waterproof, crushproof polyurethane with watertight connectors

STANDARD ACCESSORIES

- Lockable shipping case
- Composite & S-video cables

