

MOTORIZED-MOVEMENT INDUSTRIAL CAMERA

Compact and multipurpose



PORTA
ZOOM
By CTZOOM

Panoramic zoom camera

PortaZoom features infinitely adjustable settings, fully configurable functions in either manual or automatic mode, and an integrated image-compression system compatible with GIS software.

Unique 360° motorized movement can be used to access 99% of pipes

- Compact, resistant and watertight 15-cm (6-in.) monobloc housing is specially designed to fit municipal flow channels
- Motorized horizontal and vertical panoramic movement with variable speed from 0.10° to 40°/sec
- Multifocal zoom camera with enlargement capability up to 312x
- Powerful peripherally mounted integrated lighting system
- Full-circumference lighting of pipes and vaults eliminates shadow areas that reduce image quality
- Pressurizing valve maintains a positive operating pressure of 35 kPa (5 psi)

Controlled by a commercially available joystick and standard computer keyboard

- Unique video server card integrated into the PortaZoom case
- Controller-server unit plugs into a computer USB port
- Exclusive integrated software manages video recording and controls motor, lighting and camera functions
- Fully stand-alone operation using standard equipment — requires only a commercially available joystick and a standard keyboard connected to any compatible computer
- Easy to install on most vehicles, and attaches to standard hand-held pole

The entirely new PortaZoom industrial camera is one of the most complete devices on the market for the preliminary inspection and diagnosis of infrastructures.

MOTORIZED-MOVEMENT INDUSTRIAL CAMERA



Motorized unit with horizontal and vertical panoramic movement



Controller-server unit for fully stand-alone operation



Multipurpose integrated lighting

Options

- Training programs available for operators
- Telephone support combined with direct computer-to-computer assistance via a secure link

CTZoom Technologies specializes in the research and development of leading-edge inspection solutions, and reserves the right to modify, eliminate or add to the product features described in this pamphlet without notice.

Patents pending no. US 11/274316, US 11/280202 and US 11/280201
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Automatically or manually adjustable integrated lighting

- Multiple glass filters can be added to modify the lighting colour and reduce reflection in humid conditions
- Overall or individual lamp wattage and light-scattering angle fully controllable from spotlight to floodlight
- Boost function for additional lighting power
- Infinitely variable lighting sequence activated manually or triggered by automatic settings predefined for a specific material, structure or distance
- Optional lighting units available for large-diameter infrastructures

Automated inspection device (AID) and settings recall system significantly increases productivity

- Any combination of optical settings (pipe diameter, pipe material or camera distance from the walls) can be assigned a name and saved as a file for quick recall
- Save and recall feature for movement settings of the panoramic unit also available to enable fully automatic inspection routines
- Several predefined lighting and inspection setting templates available
- Possibility of using only automatic optical settings while controlling the camera manually

Exclusive State Marker

- Settings can be saved during inspections and manually changed to examine areas that appear to have problems
- Marker activation instantly recalls saved settings for the direct resumption of inspections, without further adjustment

Ultrafast video editor-compressor

- Introductory video identifying the digital file for each inspection is based on infrastructure data extracted from the municipality's Geographic Information System (GIS) or relational database
- Customization of the character display in video headers with an unlimited choice of fonts and formats
- Automatic editing of the information in video headers during database updates with no risk of damage to inspection files
- Ultrafast video file compression and consolidation
- Automatic system with database linkage to correct introductory videos by group or individually

CTZoom's exclusive PortaZoom hardware and software solutions—all fully compatible with standard industry vehicles and information systems—are also available to enhance the performance of your inspection and infrastructure management processes. For more information about CTZoom technologies, visit our website or contact a CTZoom representative.

Expertise in a box

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