VIVIDIA VS-4130PT

Vividia VS-4130PT Pan & Tilt & Zoom Pipe Sewer Drain Tank Video Inspection Camera User Manual

1. INTRODUCTION

The Vividia VS-4130PT Pipe PTZ Inspection Camera is an all-in-one visual inspection tool designed for professionals in various fields. This manual provides detailed instructions for the proper setup, operation, and maintenance of your inspection camera system.

2. PRODUCT OVERVIEW AND COMPONENTS

The Vividia VS-4130PT system includes a 7-inch LCD heavy-duty colored control monitor, a 30-meter (98ft) high-strength glass fiber push rod cable, and a 41mm (1.61") pan/tilt waterproof HD inspection camera. Key components are illustrated below:

Figure 1: Complete Vividia VS-4130PT Pipe Inspection Camera System

Figure 2: Front view of the system, showing the monitor and cable reel.

Figure 3: Side view of the system, highlighting the cable reel and frame.

Package Contents:

- PTZ 41mm diameter camera
- 30m (98ft) push-rod cable and steel reel
- 7" heavy-duty monitor and control unit
- AC charger
- USB data cable
- Video cable
- Extra 5 plastic covers for the PTZ camera
- Plastic protector for the camera
- User manual

3. SPECIFICATIONS

Feature	Specification
Camera Diameter	41mm / 1.61"
Camera Length	60mm / 2.36"
Resolution Pixels	1024 x 768
LED Lights	12 pcs LED
Focus Method	Manual focus adjustable by + and - buttons
Focus Range	5mm to infinity by manual focus
Image Sensor	CMOS 1/4
Waterproof Rating	IP67, 1m underwater
Pan Angles	360 degrees
Tilt Angles	180 degrees
Cable Length	30m (98ft)
Video Capture Resolution	1080p

4. SETUP

1. **Unpack the System:** Carefully remove all components from the heavy-duty carrying case.
2. **Assemble the Reel and Monitor:** The monitor unit is integrated with the cable reel. Ensure all connections are secure.
3. **Charge the Battery:** Connect the AC charger to the control unit and a power outlet. Allow sufficient time for the battery to fully charge before first use.
4. **Insert Storage:** Insert an SD card (up to 256GB) into the designated slot on the control unit for recording. A USB drive can also be used for additional storage.
5. **Attach Camera Head:** Ensure the 41mm PTZ camera head is securely attached to the push rod cable.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the power button on the control unit to turn the system on or off. The 7-inch LCD monitor will display the live camera feed.
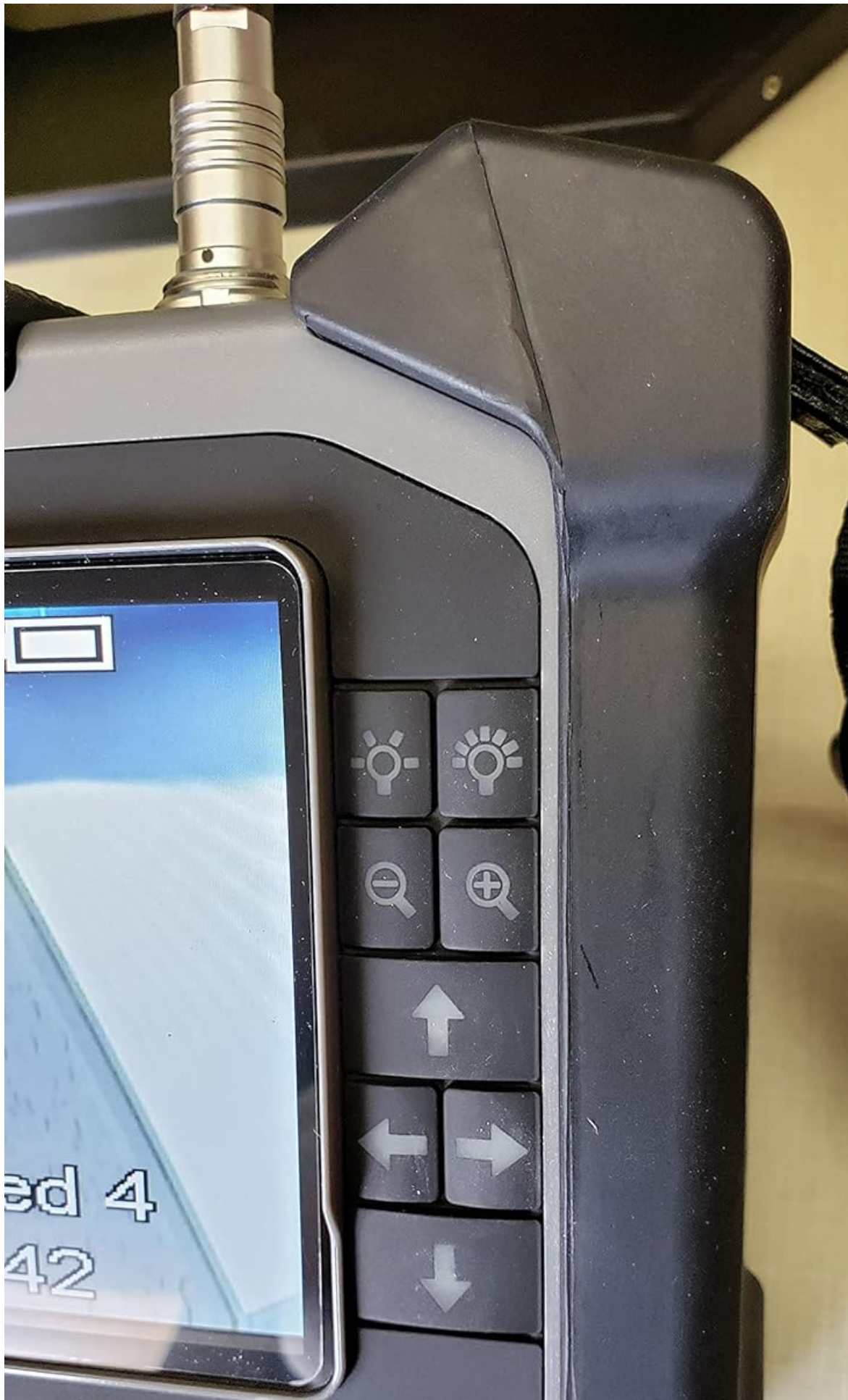
Figure 4: Control unit screen displaying live feed and controls.

5.2 Camera Control (Pan, Tilt, Zoom, Focus, LED)

The VS-4130PT features a Pan & Tilt camera head with adjustable LED lights and manual focus.

- **Pan & Tilt:** Use the directional buttons on the control unit to pan the camera 360 degrees and tilt 180 degrees, allowing for comprehensive viewing within pipes.
- **LED Lights:** Adjust the brightness of the 12 LED lights using the dedicated buttons on the control unit to ensure optimal illumination in dark environments.
- **Manual Focus:** The camera features manual focus, adjustable from 5mm to infinity using the '+' and '-' buttons on the control unit. This allows for clear imaging of objects at various distances.

Figure 5: Control unit buttons for pan, tilt, zoom, and LED adjustment.

Figure 6: Close-up of the 41mm PTZ camera head with LED lights.

5.3 Recording Photos and Videos

The system supports one-touch video recording and image capture. Files are saved directly to the inserted SD card or USB drive.

- **Capture Photo:** Press the dedicated photo button to capture still images.
- **Record Video:** Press the dedicated video button to start and stop video recording.

Figure 7: Control unit buttons for photo and video recording functions.

5.4 Meter/Feet Counter

The system includes a built-in meter/feet counter to track the cable's insertion depth. This can be displayed in either metric (meters) or imperial (feet) units.

FRONT ②
THIS STICKER HELPS TO REMOVE
THE MASK FROM THE Screen GUARD
EASEPEEL OFF THE MASK WITHTHIS STICKER

0.00m

Figure 8: Meter/feet counter display on the cable reel.

5.5 Storage

The control unit supports both SD card (up to 256GB) and USB drive storage for recorded media. Ensure a compatible storage device is inserted before recording.

5.6 Language Selection

The system supports multiple languages. Navigate through the system settings on the monitor to select your preferred language.

5.7 Official Product Video

Video 1: This video demonstrates the Pan, Tilt, and Zoom functionalities of the Vividia VS-4130PT camera, showcasing its waterproof capabilities and ease of use in pipe inspection scenarios.

6. MAINTENANCE

- **Cleaning:** After each use, clean the camera head and cable with a damp cloth. Avoid harsh chemicals.
- **Camera Covers:** The camera head comes with easy replaceable plastic covers to protect the lens. Replace them if they become scratched or damaged to maintain clear image quality.

Figure 9: Replaceable camera covers for the PTZ camera head.

- **Storage:** Store the system in its heavy-duty carrying case in a cool, dry place when not in use.
- **Battery Care:** Fully charge the battery before long-term storage and recharge every 3-6 months to maintain battery health.

7. TROUBLESHOOTING

- **No Image on Screen:**

  - Ensure the camera cable is securely connected to the monitor unit.
  - Check if the system is powered on and the battery is charged.
  - Verify camera head is not damaged.

- **Poor Image Quality:**

  - Adjust LED brightness.
  - Clean the camera lens and ensure the protective cover is clear.

- Adjust manual focus for clearer images.

- **Recording Issues:**

    - Ensure an SD card or USB drive is properly inserted.
    - Check if the storage device has sufficient free space.
    - Format the SD card/USB drive if issues persist (this will erase all data).

8. WARRANTY AND SUPPORT

This product is manufactured by Vividia Technologies. For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase documentation or visit the official Vividia website. Consider purchasing an extended protection plan for additional coverage.