

[Manuals.plus](#) /

> [PNI](#) /

> PNI DF780 1 Monitor Video Intercom System, 7" 1080p Touch Screen, Card Slot, IP65 Supports Serial Connection of 4 Monitors, 2 External Units and 2 CCTV Cameras

## PNI PNI-DF780

# PNI DF780 Video Intercom System User Manual

Comprehensive guide for installation, operation, and maintenance.

## PRODUCT OVERVIEW

The PNI DF780 is a state-of-the-art video intercom system designed to enhance security and communication for your property. It features a 7-inch 1080p touchscreen monitor and an IP65-rated outdoor unit, ensuring clear visuals and reliable performance in various weather conditions.

This system is highly expandable, supporting connections for up to 4 monitors, 2 external units, and 2 CCTV cameras, allowing for a customized and comprehensive security setup. It also includes convenient storage options via a card slot for recorded footage.

## PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Indoor Unit (Monitor)
- 1 x Outdoor Unit
- 1 x Monitor Wall Mount Bracket
- Mounting Accessories (screws, anchors)
- 1 x Indoor Monitor Power Supply
- Cable Connections
- 1 x User Manual (this document)

## PRODUCT COMPONENTS

Familiarize yourself with the main components of the PNI DF780 system:



**Figure 1:** The PNI DF780 system, showing the 7-inch indoor monitor on the left and the outdoor camera unit on the right. Both units are silver and black.



**Figure 2:** Front view of the PNI DF780 system, highlighting the sleek design of both the indoor monitor and the outdoor unit.



Figure 3: Side view of the PNI DF780 indoor monitor, showing its slim profile.





**Figure 4:** Back view of the PNI DF780 indoor monitor, revealing the mounting points and connection ports.



**Figure 5:** The indoor monitor alongside its dedicated wall mount bracket, ready for installation.



**Figure 6:** Rear view of the outdoor unit, displaying the wiring terminals and a diagram for connections, including volume adjustment and lock control.



Figure 7: The outdoor unit disassembled, showing its internal components and the protective casing.

### PNI DF780

Video door phone

- Snapshot
- Intercom
- Video record
- Door unlock
- Motion detection
- Leave message

- Output for electric lock
- Night vision
- Automatic recording
- Video intercom
- Motion detection
- IP65 waterproof
- Micro SD slot
- 1080P camera
- 7" HD monitor

### PNI DF780

Interfon video

Unitate exterior		Unitate interior	
Tensiune alimentare	12-15V DC	Tensiune alimentare	12-15V DC
Rezolutie video	1080P	Rezolutie video	1920 x 1080px
LED-uri	6 LED-uri	Dimensiune ecran	7 inch, 1024 x 600px
Unghi vizibilitate	120°	Slot card micro SD	Da, max. 128GB
Resistenta la apa	IP65	Butoane tactile	Da, multifunctionale

Figure 8: Detailed rear view of the indoor monitor, showing various connection ports for external units, CCTV cameras, and the microSD card slot.



Figure 9: The power adapter for the PNI DF780 system, model PNI-780-14.5V, providing 14.5V DC output.

## TECHNICAL SPECIFICATIONS

---

Feature	Specification
Brand	PNI
Model Name	PNI-DF780
LCD Screen	7 inches
Screen Resolution	1024 x 600
Video Capture Resolution	1080p (2MP CMOS Camera)
International Protection Rating	IP65 (Outdoor Unit)
External Memory	microSD card, max 128GB (not included)
IR LEDs	6 pcs
Night Visibility	Up to 5 meters
Working Distance	Up to 100 meters
Monitor Dimensions (L x W x H)	207 x 144 x 23 mm (8.07 x 0.98 x 5.51 inches)
Camera Dimensions (L x W x H)	125 x 56 x 21 mm
Power Supply	12-15V DC
Expandability	Supports 4 Monitors, 2 External Units, 2 CCTV Cameras
Features	Intercom, External Monitoring, Alarm (motion detection), Photo Storage, Video Recording, Browse Records, Electromagnetic Yala Control Output (2)

## INSTALLATION AND SETUP

---

### 1. Mounting the Indoor Monitor

1. Choose a suitable location indoors, away from direct sunlight and heat sources.
2. Use the provided wall mount bracket as a template to mark drilling points on the wall.
3. Drill holes and insert wall anchors if necessary.
4. Secure the wall mount bracket to the wall using the provided screws.
5. Before mounting the monitor, complete all necessary wiring connections (refer to "Wiring Connections" section).
6. Carefully slide the monitor onto the mounted bracket until it clicks into place.

### 2. Mounting the Outdoor Unit

1. Select an outdoor location near your entrance, ensuring clear visibility of visitors and protection from direct rain if possible (though the unit is IP65 rated).
2. Mark drilling points for the outdoor unit's mounting bracket.

3. Drill holes and secure the bracket to the wall.
4. Connect the wiring to the outdoor unit (refer to "Wiring Connections" section and Figure 6).
5. Attach the outdoor unit to its mounted bracket.

### 3. Wiring Connections

The system uses a 4-core cable for connection between the indoor monitor and the outdoor unit. Refer to Figure 8 for indoor monitor connections and Figure 6 for outdoor unit connections.

- **Main Intercom Connection:** Connect the 4-core cable from the outdoor unit to the designated input on the indoor monitor. Ensure correct polarity for audio, video, and power lines.
- **Power Supply:** Connect the provided power adapter to the indoor monitor's power input.
- **Additional Monitors (Optional):** If connecting multiple indoor monitors (up to 4), use serial connection as per the wiring diagram in the manual.
- **External Units/CCTV Cameras (Optional):** Connect additional outdoor units (up to 2) or CCTV cameras (up to 2) to the respective input ports on the indoor monitor.
- **Electric Lock Control (Optional):** If using an electromagnetic yala (electric lock), connect it to the designated output terminals on the outdoor unit.

Ensure all connections are secure before powering on the system.

## OPERATION GUIDE

---

### 1. Basic Functions

- **Monitoring:** From the main screen, tap the "Monitor" icon to view the live feed from the outdoor unit camera.
- **Intercom:** When a visitor presses the call button on the outdoor unit, the indoor monitor will ring. Tap "Intercom" to answer and communicate with the visitor.
- **Door Unlock:** During an intercom call or while monitoring, tap the "Gate" or "Unlock" icon (if an electric lock is connected) to remotely open the door.
- **Video Recording & Photo Storage:** The system supports automatic video recording and photo capture, especially with motion detection enabled. Ensure a microSD card (up to 128GB) is inserted into the monitor's card slot for storage.
- **Browse Records:** Tap "Visit record" to review stored video recordings and photos.
- **Alarm Function:** The system can trigger an alarm upon motion detection. Configure alarm settings in the system menu.

### 2. System Settings

Tap the "Setting" icon on the main screen to access system configurations, including:

- Date and Time settings
- Display brightness and volume adjustment
- Motion detection sensitivity
- Recording preferences (manual, scheduled, motion-activated)
- Network settings (if applicable for advanced models or future updates)
- Language selection

## MAINTENANCE

---

- **Cleaning:** Use a soft, dry cloth to clean the monitor screen and outdoor unit. For stubborn dirt, a slightly damp cloth can be used, but avoid abrasive cleaners or excessive moisture.
- **Outdoor Unit Care:** Periodically check the outdoor unit for any obstructions to the camera lens or microphone/speaker.

Ensure the mounting is secure.

- **Software Updates:** Check the manufacturer's website for any available firmware updates to ensure optimal performance and new features.
- **Data Backup:** Regularly back up important video recordings from the microSD card to another storage device.

## TROUBLESHOOTING

Problem	Possible Cause / Solution
No image on monitor.	<ul style="list-style-type: none"><li>◦ Check if the monitor is powered on.</li><li>◦ Verify all cable connections between the outdoor unit and monitor are secure and correctly wired.</li><li>◦ Ensure the power adapter is functioning correctly.</li></ul>
No audio during intercom.	<ul style="list-style-type: none"><li>◦ Check audio cable connections.</li><li>◦ Ensure volume settings on the monitor are not muted or set too low.</li><li>◦ Inspect microphones and speakers on both units for obstructions.</li></ul>
Door unlock function not working.	<ul style="list-style-type: none"><li>◦ Verify the electric lock is correctly wired to the outdoor unit.</li><li>◦ Ensure the lock itself is functional.</li><li>◦ Check system settings for lock control.</li></ul>
Cannot record video/photos.	<ul style="list-style-type: none"><li>◦ Ensure a microSD card is inserted and properly formatted.</li><li>◦ Check if the microSD card has sufficient free space.</li><li>◦ Verify recording settings in the system menu.</li></ul>

## WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official PNI website.

Keep your purchase receipt as proof of purchase.

For technical support, troubleshooting assistance beyond this manual, or spare parts, please contact PNI customer service or visit their official store:

[Visit the PNI Store on Amazon](#)