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Sony PDT-FP1

Sony PDT-FP1 Portable Data Transmitter User Manual

Model: PDT-FP1

INTRODUCTION

The Sony PDT-FP1 Portable Data Transmitter is designed for professionals requiring high-speed and stable communication. This device features an optimized antenna design, an efficient heat dissipation structure, and versatile input interfaces to ensure reliable performance in demanding environments. It supports a broad range of communication bands, including LTE, 5G Sub6, and mmWave, and offers enhanced reception sensitivity for faster, low-latency data transmission.

The PDT-FP1 is compatible with various communication environments, including local and private 5G networks, facilitating efficient data transmission globally. Its Dual SIM capability allows for automatic switching to the strongest available network, ensuring seamless data flow. The integrated cooling fan and duct structure prevent thermal shutdown, maintaining continuous operation even in temperatures up to 40°C (104°F).

KEY FEATURES

- **Uninterrupted Streaming:** Supports a wide range of LTE and 5G bands for reliable connectivity and live video transmission.
- **Ultra-Fast Data Transfer:** Equipped with a SuperSpeed USB 5Gbps (USB3.2) Type-C port and a Gigabit LAN terminal for rapid data handling and network connectivity.
- **Superior Image Quality:** HDMI Type-A connector supports high-resolution video transmission up to 4K at 60p/50p/30p/25p/24p.
- **Extended Battery Life:** Provides approximately 4 hours for FTP transfer via USB in LTE, or about 2 hours for video uploads via HDMI.
- **Enhanced Portability:** Compact and lightweight design (approx. 10.9 oz / 309g, 6.7 x 3.2 x 1.1 inches) for easy transport and setup.

DEVICE OVERVIEW



Figure 1: Rear view of the PDT-FP1, highlighting the LAN, CHARGE (USB-C), and HDMI ports. A small camera lens is visible at the top.



Figure 2: Multiple views of the PDT-FP1, illustrating its slim profile and the placement of ports (USB-C, HDMI, LAN) on the top and bottom sections.

SETUP INSTRUCTIONS

1. **Charge the Device:** Connect the PDT-FP1 to a power source using the provided USB-C cable and a compatible charger. The CHARGE indicator will illuminate during charging.
2. **Insert SIM Cards (Optional):** If using cellular data, open the SIM card slot cover and insert up to two nano-SIM cards. Ensure they are correctly oriented.
3. **Connect to a Camera/Video Source:**
 - For video input, connect an HDMI cable from your camera or video source to the HDMI input port on the PDT-FP1.
 - For data transfer from a camera, connect a USB cable from your camera to the USB-C port on the PDT-FP1.
4. **Connect to Network (Optional):**
 - For wired network connection, connect an Ethernet cable to the LAN port.
 - For wireless network, ensure SIM cards are active or configure Wi-Fi settings via the device interface.
5. **Power On:** Press and hold the power button until the device powers on and the display illuminates.



Figure 3: The PDT-FP1 connected to a camera, demonstrating its use for transferring image files to a connected smartphone.



Figure 4: The PDT-FP1 mounted on a camera, showing its display interface with real-time 5G signal strength and data upload/download speeds.

OPERATING INSTRUCTIONS

Data Transmission

1. **Select Input Source:** Use the device's interface to select whether the input is from HDMI (for live video) or USB (for file transfer).
2. **Network Selection:** The PDT-FP1 automatically selects the strongest available network (LTE, 5G, Wi-Fi, or LAN). You can manually override this in the settings if needed. With Dual SIM, the device will switch to the SIM with better signal.
3. **Start Transmission:** Depending on your application (e.g., live streaming software, FTP client), initiate the data transfer or stream. The device's display will show connection status and data rates.
4. **Monitor Performance:** Regularly check the device's screen for signal strength, data transfer speeds, and battery level to ensure continuous operation.

Heat Management

The PDT-FP1 features an active cooling system. Ensure the ventilation ducts are not obstructed during operation to maintain optimal performance and prevent thermal shutdown. The device is designed to operate stably up to 40°C (104°F).



Figure 5: The PDT-FP1 displaying streaming information, including resolution (3840x2160), frame rate (60fps), and audio input status, while connected to a camera.



Figure 6: The PDT-FP1 integrated with a professional video camera, illustrating its application in high-end production environments for data transmission.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents. Ensure all ports are free of dust and debris.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Software Updates:** Periodically check the Sony support website for firmware updates to ensure optimal performance and access to new features.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in active use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; power button not pressed correctly.	Charge the device. Press and hold the power button for several seconds.

Problem	Possible Cause	Solution
No network connection.	No active SIM card; out of network coverage; Wi-Fi not configured; LAN cable disconnected.	Ensure SIM cards are active and correctly inserted. Move to an area with better signal. Configure Wi-Fi settings. Check LAN cable connection.
Slow data transmission.	Weak network signal; network congestion; device overheating.	Check signal strength on the device display. Try a different network (if Dual SIM is active). Ensure ventilation is clear.
Video input not detected.	HDMI cable loose or faulty; incorrect input source selected.	Check HDMI cable connection. Ensure the camera is outputting video. Select HDMI as the input source on the PDT-FP1.
Device feels hot.	Normal operation under heavy load; obstructed ventilation.	Ensure ventilation ducts are clear. If operating in high ambient temperatures, consider moving to a cooler environment. The device is designed to manage heat up to 40°C (104°F).

SPECIFICATIONS

Feature	Detail
Model Number	PDT-FP1
Brand	Sony
Item Weight	Approximately 10.9 ounces (309g)
Product Dimensions	6.7 x 3.2 x 1.1 inches (170 x 81 x 28 mm)
Connectivity	LTE, 5G Sub6, mmWave, Dual SIM, Wi-Fi, Gigabit LAN, SuperSpeed USB 5Gbps (USB3.2) Type-C, HDMI Type-A
Video Input	HDMI Type-A, up to 4K 60p/50p/30p/25p/24p
Battery Life (Approx.)	4 hours (FTP transfer via USB in LTE), 2 hours (video uploads via HDMI)
Operating Temperature	Stable operation up to 40°C (104°F)
UPC	027242930377

WARRANTY AND SUPPORT

This Sony PDT-FP1 Portable Data Transmitter is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Sony support website for detailed warranty terms and conditions specific to your region.

For technical support, troubleshooting assistance, or service inquiries, please contact Sony customer support through their official website or the contact information provided in your product documentation. Keep your proof of purchase for warranty claims.

Sony Support Website: <https://www.sony.com/electronics/support>



