

Pknight TS-WDMX03C

Pknight 8-Way Isolated DMX Splitter with 2.4G Wireless Receiver Function User Manual

Model: TS-WDMX03C

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Pknight 8-Way Isolated DMX Splitter with 2.4G Wireless Receiver Function. This device is designed to distribute DMX512 signals reliably and efficiently, offering both wired and wireless signal reception capabilities. Please read this manual thoroughly before use to ensure proper functionality and to prevent damage.

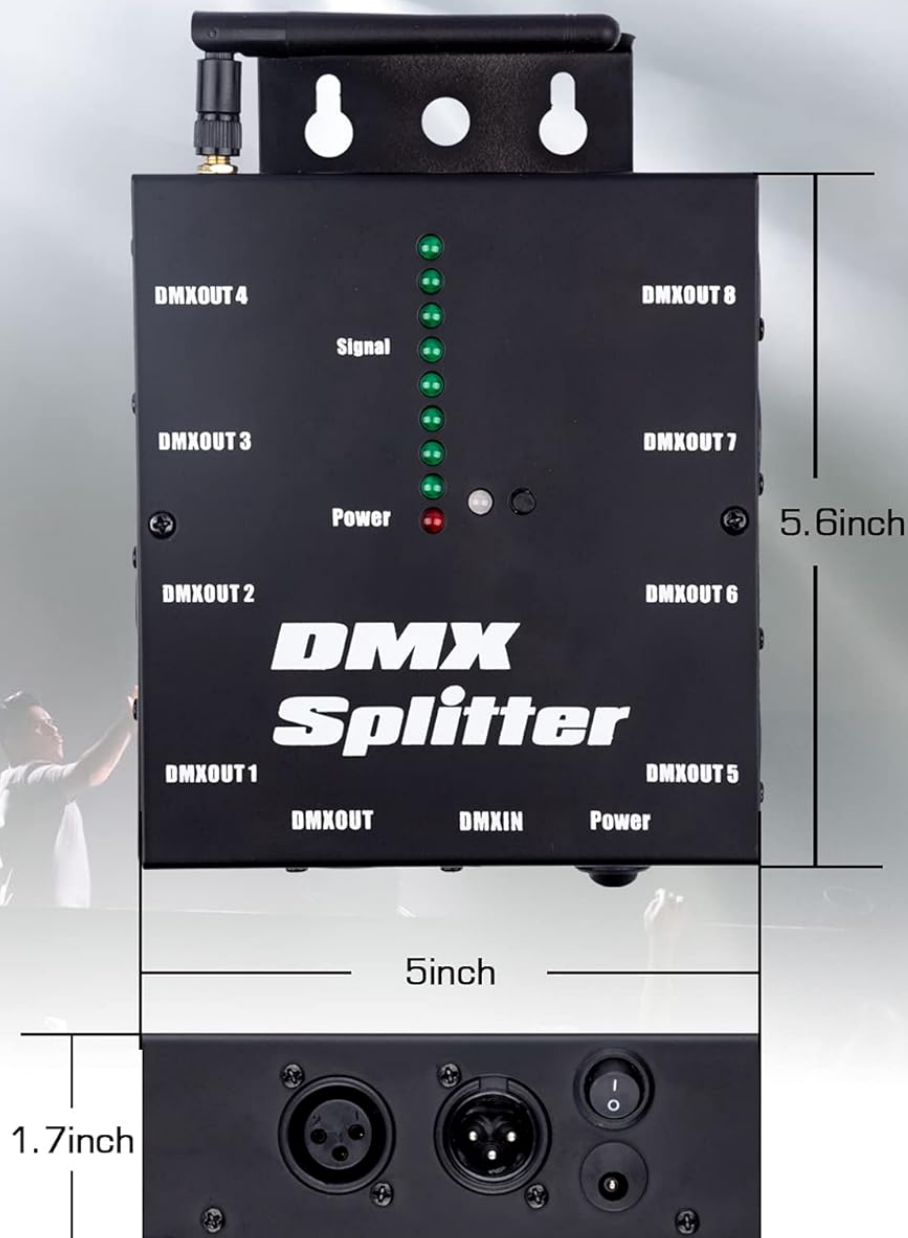


Image 1.1: Front view of the Pknight 8-Way Isolated DMX Splitter, showing its compact design and various DMX output ports.

2. FEATURES

- **2.4G Wireless Receiver Function:** Capable of receiving DMX signals from compatible wireless transmitters. This signal is then amplified and distributed alongside any wired input to the 8 DMX output ports.
- **Multiple Interfaces:** Equipped with 8 DMX output (female XLR), 1 DMX Input (male XLR), and 1 DMX Thru (female XLR) ports to accommodate various connection requirements.
- **Optical Isolation:** All input and output ports are electrically and optically isolated from each other, providing protection against electrical interference and potential damage to connected equipment.
- **Power Supply:** Operates on a 9V DC power supply (adapter included).
- **Compact Design:** Lightweight and easy to mount, suitable for both permanent installations and mobile entertainment systems.

8 DMX Outputs



1 DMX Input
1 DMX Resend

Image 2.1: Top-down view of the DMX Splitter highlighting its 8 DMX outputs, 1 DMX input, 1 DMX Thru, and overall dimensions (5 inches wide, 5.6 inches deep, 1.7 inches high).



2.4g wireless
7 channels
Receive dmx from transmitter

Image 2.2: Close-up view showing the detachable antenna and indicating 2.4G wireless functionality with 7 channels for receiving DMX from a transmitter.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package:

- Pknight 8-Way Isolated DMX Splitter with 2.4G Wireless Receiver Function
- 9V DC Power Adapter
- Detachable 2.4G Antenna

- User Manual (this document)

4. SETUP

4.1 Physical Placement

Place the DMX splitter on a stable, flat surface or mount it securely using appropriate hardware. Ensure adequate ventilation around the unit.

4.2 Connecting the Power

1. Connect the provided 9V DC power adapter to the power input port on the splitter.
2. Plug the power adapter into a suitable electrical outlet. The power indicator LED on the unit should illuminate.

4.3 DMX Connections

The splitter features 3-pin XLR connectors for DMX input and output.

1. **DMX Input:** Connect your DMX controller's output to the **DMX IN** (male XLR) port on the splitter.
2. **DMX Thru:** If you need to daisy-chain the DMX signal to another device before splitting, connect it to the **DMX THRU** (female XLR) port. This port provides an unprocessed copy of the input signal.
3. **DMX Outputs:** Connect your DMX-controlled lighting fixtures or other DMX devices to the **DMX OUT 1-8** (female XLR) ports. Each output is isolated.

4.4 Wireless Antenna Installation

Screw the detachable 2.4G antenna onto the designated antenna connector on the splitter. Ensure it is securely fastened for optimal wireless signal reception.



3 pin xlr
1 channel button
10 LED indicators

Image 4.1: The DMX Splitter shown in a stage environment, illustrating its 3-pin XLR connectors, channel button, and LED indicators for signal and power status.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Use the power switch located on the unit to turn the device on or off. The power LED will indicate the unit's status.

5.2 Wired DMX Operation

1. Ensure your DMX controller is sending a signal to the **DMX IN** port.

2. The signal indicator LEDs on the splitter will illuminate, showing DMX signal presence.
3. The DMX signal will be distributed to all 8**DMX OUT** ports.

5.3 Wireless DMX Operation

The splitter can receive DMX signals wirelessly from a compatible 2.4G DMX transmitter (sold separately).

1. Ensure the detachable antenna is securely connected.
2. Power on the DMX splitter.
3. Power on your 2.4G DMX transmitter and set it to the desired channel.
4. The splitter will automatically detect and pair with the transmitter on the same channel. The signal indicator LEDs will show wireless DMX signal reception.
5. The received wireless DMX signal will be amplified and distributed to all 8**DMX OUT** ports.

Note: When both wired and wireless DMX signals are present, the splitter will process both, amplifying and distributing them to the outputs. If you experience signal conflicts, ensure only one DMX source (wired or wireless) is actively transmitting to the splitter at a time, or manage your DMX universe assignments appropriately.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect DMX cables and the power adapter for any signs of wear or damage. Replace damaged cables immediately.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power indicator light	Power adapter not connected or faulty; power outlet not active.	Check power adapter connection. Test power outlet. Replace adapter if faulty.
No DMX signal output (wired)	Incorrect DMX input connection; faulty DMX cable; DMX controller not sending signal.	Verify DMX IN connection. Test DMX cable. Check DMX controller status.
No DMX signal output (wireless)	Antenna not connected; transmitter off or out of range; channel mismatch.	Ensure antenna is connected. Check wireless DMX transmitter power and range. Verify transmitter and receiver are on the same channel.
Intermittent signal or flickering lights	Poor cable connection; DMX termination issues; signal interference.	Check all DMX cable connections. Ensure proper DMX termination on the last fixture. Minimize sources of electrical interference.

8. SPECIFICATIONS

- **Model:** TS-WDMX03C

- **DMX Channels:** 512
- **DMX Input:** 1 x Male 3-pin XLR
- **DMX Thru:** 1 x Female 3-pin XLR
- **DMX Outputs:** 8 x Female 3-pin XLR (Optically Isolated)
- **Wireless Frequency:** 2.4G ISM (7 channels)
- **Power Supply:** DC 9V (Adapter included)
- **Material:** Metal casing
- **Dimensions (L x W x H):** 7.6 x 6.2 x 2.2 inches (19.3 x 15.7 x 5.6 cm)
- **Weight:** 1.68 pounds (0.76 kg)



Image 8.1: The DMX Splitter displayed alongside various DMX 512 compatible lighting fixtures, illustrating its application in a lighting setup.







9. WARRANTY AND SUPPORT

Pknight products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official Pknight website.

Please retain your proof of purchase for warranty claims.

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Related Documents - TS-WDMX03C

	<p>PknighT WIFI-DMX EasyNode User Manual: Wireless DMX Control</p> <p>Comprehensive user manual for the PknighT WIFI-DMX EasyNode, detailing setup, operation, modes (Easylink, Router), and troubleshooting for wireless DMX lighting control.</p>
	<p>PknighT CR011R Art-Net to DMX512 Network Converter User Manual</p> <p>Comprehensive user manual for the PknighT CR011R, a bi-directional Art-Net to DMX512 network converter. Learn about setup, technical specifications, OLED control, front/rear panel features, settings, network parameters, and troubleshooting.</p>
	<p>PknighT CP0401DA Intelligent Dimmer User Manual</p> <p>User manual for the PknighT CP0401DA 4-channel intelligent dimmer, detailing its features, technical parameters, operation modes (Manual, CHASE, RDM&DMX), and settings for lighting control applications.</p>
	<p>PknighT CR011R Art-Net to DMX512 Network Converter User Manual</p> <p>User manual for the PknighT CR011R, a bi-directional Art-Net to DMX512 network converter. Details technical specifications, setup, settings, troubleshooting, and features like 'Name Your Buddy' for professional lighting control.</p>
	<p>PknighT WIFI-DMX EasyNode User Manual: Wireless DMX Control</p> <p>Comprehensive user manual for the PknighT WIFI-DMX EasyNode, detailing setup, operation, modes (Easylink, Router), and troubleshooting for wireless DMX lighting control.</p>
	<p>MAC Medical TS-Series Warming Cabinets: Installation, Operation, and Maintenance Guide</p> <p>Comprehensive instruction manual for MAC Medical TS-Series Warming Cabinets, covering installation, operation, maintenance, safety guidelines, and technical specifications. Essential guide for healthcare facilities.</p>

