USP-124 UHF Wideband TX Power Splitter

JTS USP-124 UHF Wideband TX Power Splitter works in the frequency range of 470MHz ~ 970MHz. The main application of the product is to provide larger coverage of transmission signal, for example, different floors in a building to avoid weak signal (reception) area. The USP-124 can divide the signal into 4 with no harm to the signal itself. Together with UHF directional antenna, USP-124 is idea for large space applications. The product is good with not only JTS stationary transmitters SIEM-111T, TG-10STX…ect., but also transmitters from other brands.

Specification

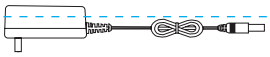
USP-124

Carrier Frequency Range	UHF 470~970MHz
Gains	0~+2dB
Input / Output VSWR	≦1.5:1
Input Power Indicator	+3dBm, +7dBm, +15dBm, +20dBm
Maximum Input Power	+26dBm (Under +24dBm is Recommended)
Power Supply	DC 12~15V/1A
Connectors	BNC Socket(1 Input，4 Outputs)
Dimensions (mm)	212 (W) × 44 (H)× 203 (D)
Weight	1.45kg ± 100g

Accessories

1. End Resistance 50Ω × 2

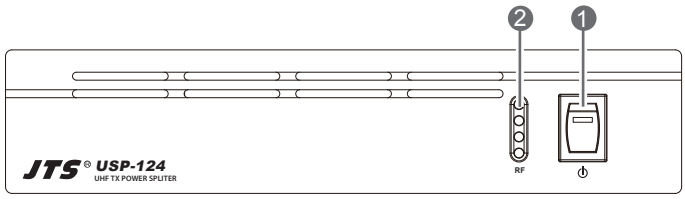
2. Switching Power Supply DC12V/1A × 1



3. BNC-BNC coaxial cable (50Ω) × 1

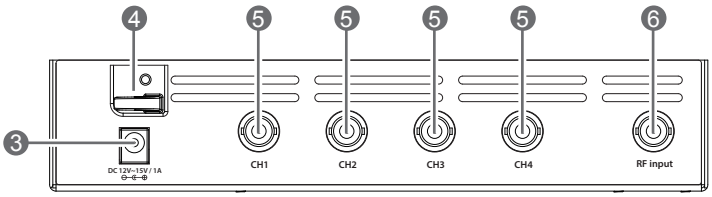
Main Functions

Front Panel



1. Power Switch: When the power switch is turned on, the indicator light will illuminate.
2. Signal Indicator: When input signal is over +3dBm, +7dBm, +15dBm, +20dBm, the indicator will illuminate accordingly.

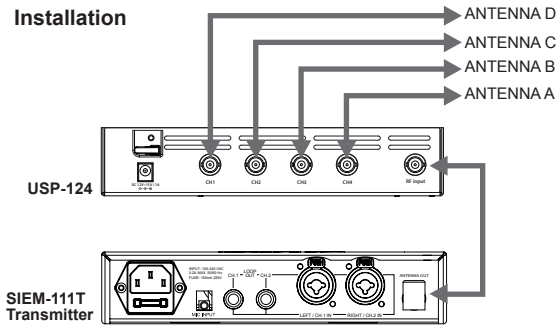
Rear Panel



3. DC Power Input Socket: Power input DC12~15V/1A, equip with Over Voltage Protection. When input power is over +18Vdc, the power will shutdown automatically until the voltage is back to the normal range, then the system can work again.
4. Power Cable Hook
5. BNC Output Socket: 4 signal outputs are provided.
6. BNC Input Socket: Connects to the output of transmitter. The maximum input power is +26dBm (0.4W). For best performance, please make sure input power is under +24dBm (0.25W).

Operation Instructions

Installation



- Connect transmitter's output to the USP-124's input via a coaxial cable.
- Install end resistance to the BNC output socket when not in use.
- When using coaxial cable with antenna system, please keep the cable length to a minimum to minimize line losses (e.g., RG-58U cable can loss up to 5dBm with 10m of length). If it is necessary, a Power Amplifier can be used to extend the coverage.
- Turn on the power after installation is completed (The frequency range of transmitter and antenna should be matched); the power indicator will light up in the order of +3dBm, +7dBm, +15dBm, +20dBm.
- Turn off the power of USP-124 before removing any connection.

Note

1. When using coaxial cable to connect with USP-124, please make sure a standard 50Ω coaxial cable is used.
2. Please make sure to turn off the power of transmitter and USP-124 before installing or uninstalling the system.
3. It is highly recommended to install end resistance on the BNC output socket when not in use.
4. Do not use USP-124 as a receiver power splitter.