

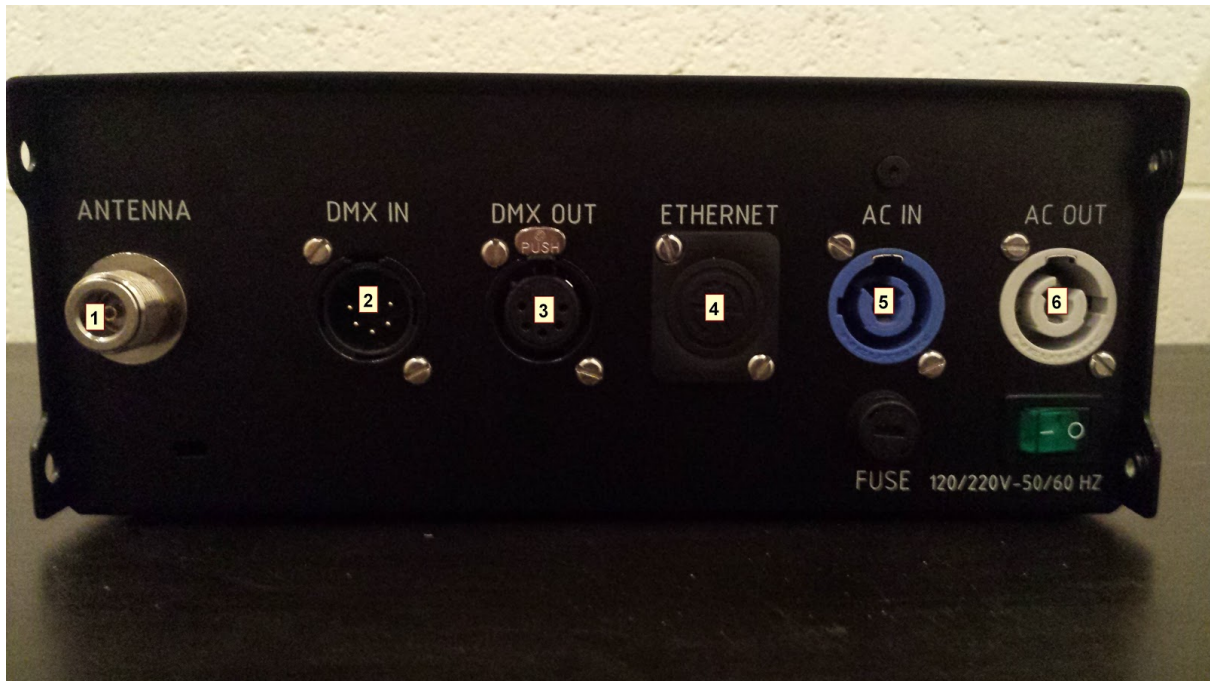
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1. PixMob Broadcaster

A Broadcaster is a Bluetooth transmitter that controls PixMob luminous objects wirelessly. Similarly to a LED flood light, it is controllable by a lighting board through DMX.





1. Bluetooth antenna connector (Female "N" type)
2. DMX XLR5 IN
3. DMX XLR5 OUT
4. Ethernet connector (for future use)
5. Powercon IN (110V - 220V AC)
6. Powercon OUT (110V - 220V AC)

2. FCC Statements



FCC ID: 2ADS4BRO1

This device complies with part 15.247 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

3. IC Statements

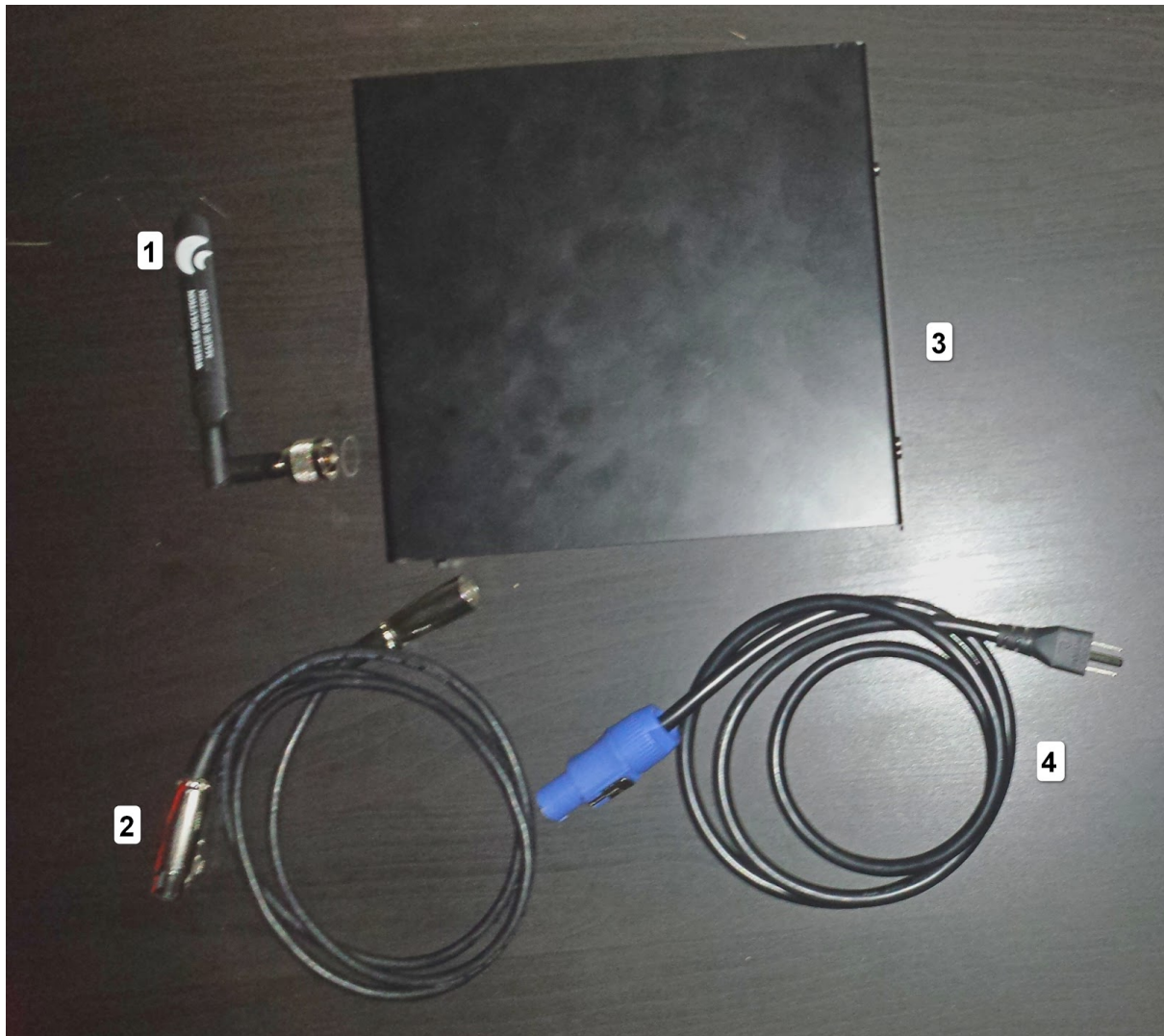
IC

IC: 7254A-BRO1

This device complies with Industry Canada licence-exempt RSS 247 standard. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS 247. Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

4. Material needed



1. Bluetooth antenna (Male "N" type connector)
2. DMX XLR 5-pin cable
3. PixMob Broadcaster
4. Broadcaster power cable (Powercon)

5. Installation

This picture shows the different connections of the Broadcaster. Broadcasters can also be connected in a daisy-chain by connecting DMX OUT to DMX IN of the next Broadcaster and AC OUT to AC IN of the next Broadcaster. *Note: The equipment will be professionally installed*

- For electrical reasons, do not connect more than 10 Broadcasters in a daisy-chain.
- All the Broadcasters on the same line must be connected to one dedicated DMX line in order to respect our frame rate of 15 fps.
- We recommend putting a 120 Ohm DMX terminator on the DMX out of the last Broadcaster in the line.
- If using antenna cable extenders, use cables with impedance of 50 Ohm only.
- Replace fuse with rating of 250V, 4A or 5A only.

6. Broadcaster menu

a. Home screen



When powering up, the Broadcaster will display the relevant version information. For example here, we have:

- Revision 1.6.1
- Release date

b. Broadcaster interface



On the right side of the control display are four control buttons. Next to the control buttons are four LED status indicators. The LED status indicators blink whenever the Broadcaster has incoming DMX, outgoing RF or Ethernet communication. There is also a LED indicator for power.

Note that the blinking speed of the green DMX LED depends on the frame rate of the DMX signal received. For example, when the incoming DMX has a speed of 30 fps, the blinking is fast. If the incoming DMX is at a speed of 15 fps, the blinking is slower.

c. Slowing down DMX speed

The speed of incoming DMX is automatically shown on the right side of the control display, whenever the Broadcaster is receiving DMX. To slow down the speed of the DMX, press DOWN to select the "BRO Out" line and then press ENTER. Use UP and DOWN to properly set up the speed of outgoing DMX you need.

The maximum DMX OUT speed is 20 fps.

Once the proper speed is set, press ENTER to save changes.

Note that you can also turn off the outgoing DMX by setting the outgoing fps to zero.

d. Setting up DMX address

To set up a DMX address, put the cursor on the “Address” line, press ENTER and set the address using UP and DOWN. Once the proper address is set, press ENTER to save the changes.

e. Silence request

A silence request is automatically sent when the Broadcaster is transmitting. This request has priority over the Sparks applications for the signal sent to the PixMob wristbands.

7. Troubleshooting



Once the Broadcaster is properly connected and receiving DMX data in PixMob format, you should see the three (red, green and blue) LED status indicator illuminate at the front of the Broadcaster.

1. Solid red (POWER): Broadcaster is powered ON.
2. Blinking green (DMX): receiving DMX.
3. Solid blue (RF): transmitting PixMob Bluetooth signal.

To make sure the Broadcaster is properly sending Bluetooth signals, you can use an application on your phone that is called Bluetooth LE Scanner (available in iOS and Android). When scanning for a Bluetooth signal, the Broadcaster will appear in the list as BRO.

8. Broadcaster characteristics

FREQUENCY BAND: 2400–2483.5 MHz
RF POWER MAX(W): Conducted 1 W
TYPE OF MODULATION: GFSK
POWER REQUIREMENTS: 120/220VAC 50/60Hz
ANTENNA INFORMATION: Gain 4.9 dBi. The EUT is professionally installed.

BODY DIMENSION: 22.2 cm x 21 cm x 8.7 cm (L, W, H)
WEIGHT: 3.2 kg
COLOR: Black