

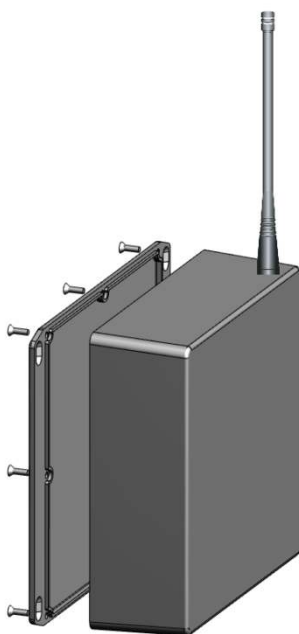


RF In Stadium Transmission System User's Manual

Networking Transmitter

Model: ST100NT-P

2017-03-30



Insert Batteries

6 Alkaline C-cell batteries are required. Duracell or Energizer brand are recommended. Remove cover plate and carefully insert batteries into holder, observing polarity, and secure firmly with Velcro straps. Replace all 8 screws and hand tighten.

Set Frequency

Switches 3 & 4 on the interconnect board between the two radio modules can be used to select between 4 frequencies, according to the following chart. The unit must be power cycled for the change to take effect.

DIP Switch 3	DIP Switch 4	Frequency (MHz)
ON	ON	433.62
ON	OFF	434.12
OFF	ON	433.12
OFF	OFF	433.37

Install Antenna

Attach provided 902-928 MHz, RP-SMA antenna (p/n A09-HASM-675) and hand-tighten. 433 MHz antenna comes pre-installed and is not removable. Attempts to remove the antenna will damage the product.

Switch On

Toggle power switch to the ON (1) position. Wait 10 seconds for the unit to boot.

Switch On Master Controller

Toggle power switch to the ON (1) position on the mating Master Controller ST100MC-P. Wait 10 seconds for the unit to boot.

Push Activation Button

Press the red button on the Master Controller to generate the activation signal. Signal is generated for 4.8s.

Specifications

Frequency: 902-928 MHz control network, 433.12 – 434.12 MHz activation channel (4 selectable).

Rated Power: 1W (902-928 MHz control network), -15dBm EIRP average (433 MHz)

Battery Life: 100h

Regulatory Statements

Compliance Statement (Part 15.19)

This device complies with Part 15 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.*

Warning (Part 15.21)

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

FCC Interference Statement (Part 15.105 (b))

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 of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 34 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Industry Canada's licence-exempt RSSs. 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.

This radio transmitter (IC: 11838A-INSTADP) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Dipole (2.1 dBi), 90° articulated, RP-SMA, 171mm, 902-928 MHz, p/n: A09-HASM-675