





Radio Frequency Systems

Provide essential audio guidance and information to your customers across a wide variety of environments with Contacta RF systems



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Radio frequency systems provide clear sound for tour guidance, conferences, and meetings

Contacta RF assistive listening systems are ideal for when sound sources need to be wirelessly transmitted across large areas, sending signals through walls regardless of floor plans.

Transmitters are connected to an audio source such as a guidance recording or microphone and send signals to portable receivers. These systems can utilise 40 channels simultaneously and provide a range of up to 300 metres.

Receivers can also be equipped with Inductive Neck Loops to aid inclusivity and accessibility, enabling users to listen using a hearing instrument equipped with a Telecoil.



Radio Frequency Rack Transmitter

The Radio Frequency Rack Transmitter is a version of our standard 2.4GHz RF transmitter (see page 4) intended for rack mounting. It uses internationally compatible frequencies to transfer crystal clear sound to our portable receivers (see pages 12 - 13).

The system supports 40 selectable channel groups to allow for a wide array of applications such as multi-language interpretation, and has a signal range of up to 300 metres.

Applications:

Ideal for situations where listeners require clear sound, tour guidance or interpretation.

- Museums
- Historical Sites
- Meeting Rooms
- Conferences
- · Places of Worship

What's Included:

- · Radio Frequency Rack Transmitter
- Power Supply
- Rack Brackets

Accessories

- Portable Radio Frequency Transceiver (see page 9)
- Portable Radio Frequency Receiver (see page 10)
- Portable Radio Frequency Underchin Receiver (see page 11)

Technical Data:

| Power Supply | 5V/DC - 1A | |
|------------------------|--|--|
| Operation Frequency | 2.4GHz (ISM) | |
| Modulation | FSK, with hopping | |
| Range | 300m outdoors 100m in buildings | |
| Channel | 40 simultaneous groups | |
| Frequency Response | 50Hz – 7kHz | |
| Transmitting Power | 10mW | |
| Sensitivity | -95dBm | |
| Speech Coding | 16bit/8KHz | |
| Delay | <35ms | |
| Frequency Width | 2MHz | |
| Data Transmission Rate | 2Mbps | |
| Connections Sockets | 1x 6.3mm jack plug LINE IN 1x 3-PIN XLR AUDIO IN/OUT 1x 3.5mm jack plug headset IN 1x 4-PIN XLR headset IN | |
| Display | LCD display (group, channel, volume, mode, signal strength) | |

Physical Data:

| Dimensions | Height – 45mm (1.77") Width – 220mm (8.66") Depth – 220mm (8.66") |
|------------|---|
| Weight | 2.3kg (5.07lbs) |
| Finish | Black |

| Radio Frequency Rack Transmitter | RF-TXRM |
|----------------------------------|---------|



Portable Radio Frequency Transmitter

Our lightweight Portable Radio Frequency Transmitter gives on-the-move transmission of clear speech to our to portable receivers (see pages 12 - 13) across 40 channels. It is provided with a belt-clip to allow users to unobtrusively wear the unit when needed, and uses a micro-USB power supply to make charging the unit simple and fast.

Applications:

Ideal for situations where listeners require clear sound, tour quidance or interpretation.

- Museums
- Historical Sites
- Meeting Rooms
- Conferences
- · Places of Worship

What's Included:

- · Portable Radio Frequency Transmitter
- Earworn Microphone (see page 15)
- · Belt Clip
- USB Charger Cable
- Lanyard

Physical Data:

| Dimensions | Height – 85mm (3.34") Width – 50mm (1.96") Depth – 15mm (0.59") |
|------------|---|
| Weight | 66g (0.14lbs) |
| Finish | Grey |

Accessories

- 2 Bay Charging Station (see page 12)
- 20 Bay Charger Case (see page 14)
- Microphone (see page 14)
- Earworn Microphone (see page 14)

Technical Data:

| n-Ion rechargeable battery 100mAh (inbuilt) |
|--|
| (ISM band) |
| th hopping |
| open air / 80m in buildings |
| ultaneous groups |
| 7kHz |
| |
| n |
| |
| nm 4 contact-socket |
| JSB charge port |
| |

| Portable Radio Frequency Transmitter | RF-TX1 |
|--------------------------------------|--------|
|--------------------------------------|--------|



Radio Frequency Repeater

Our Radio Frequency Repeater extends the transmission range of RF systems. It is a wireless solution designed for locations where frequency range is restricted due to challenging conditions, providing a stronger signal for clear audio.

It is suitable for either wall mounting or freestanding installation.

Applications:

Ideal for situations where listeners require clear sound, tour quidance or interpretation.

- Museums
- Historical Sites
- · Meeting Rooms
- Conferences
- · Places of Worship

What's Included:

- Radio Frequency Repeater
- USB Power Supply

Technical Data:

| USB Power Supply | 5V/DC - 1A |
|------------------------|---|
| OSB I OWEI SUPPLY | 3V/DC - IA |
| Operation Frequency | 2.4 GHz (ISM) |
| Modulation | FSK, with hopping |
| Range | 300m outdoors / 100m in buildings |
| Channel | 40 simultaneous groups |
| Frequency Response | 50Hz – 7kHz |
| Transmitting Power | 10mW |
| Sensitivity | -95dBm |
| Speech Coding | 16bit/8KHz |
| Delay | <35ms |
| Frequency Width | 2MHz |
| Data Transmission Rate | 2Mbps |
| Connections Sockets | 1x 6.3mm jack plug LINE IN 1x 3-PIN XLR AUDIO IN/OUT 1x 3.5mm jack plug headset IN 1x 4-PIN XLR headset IN |
| Display | 2x LCD display (group, channel, volume, mode, signal strength) |

Physical Data:

| Dimensions | Height – 37mm (1.45") Width – 230mm (9.05") Depth – 124mm (4.88") |
|------------|---|
| Weight | 555g (1.22lbs) |
| Finish | Black |

| Radio Frequency Repeater | RF-RP |
|--------------------------|-------|
|--------------------------|-------|



Portable Radio Frequency Transceiver RF-TRX

Our two-directional Portable Radio Frequency Transceiver is a transmitter and receiver in one, allowing users to both speak and listen across 40 channels. It is splash-resistant and comes with a micro-USB power supply to make charging the unit simple and fast.

Up to 99 transceivers can be used per group, with one being defined the primary transmitter capable of both speech and listening. Two of the group's secondary transmitters can be set to also speak and listen.

Applications:

Ideal for situations where listeners require clear sound, tour guidance or interpretation.

- Museums
- Historical Sites
- Meeting Rooms
- Conferences
- Places of Worship

What's Included:

- Portable Radio Frequency Transceiver Headset (see page 15)
- Leather Carry Case with Belt Clip
- **USB Charger Cable**
- Lanyard

Physical Data:

| Dimensions | Height – 98mm (3.85") Width – 49mm (1.92") Depth – 17mm (0.66") |
|------------|---|
| Weight | 88g (0.19lbs) |
| Finish | Black |

Accessories

- Headset (see page 15)
- 10 Bay Charger Case (see page 13)

Technical Data:

| Power Supply | Lithium-Ion rechargeable battery 3.7V / 1100mAh (inbuilt) |
|------------------------|--|
| Transmission Frequency | 2.4GHz (ISM band) |
| Transmission Range | 300m in open air / 100m in buildings |
| Channels | 40 simultaneous groups |
| Frequency Response | 50Hz – 7kHz |
| Transmission Power | 10mW |
| Sensitivity | -95dBm |
| Data Rate | 2 Mbps |
| Connectors | 2 x 3.5mm 4 contact-socket |
| | Micro-USB charge port |

| Portable Radio Frequency Transceiver | RF-TRX |
|--------------------------------------|--------|



Portable Radio Frequency Receiver

Our lightweight Portable Radio Frequency Receiver provides high-quality sound sent from our range of transmitters and transceivers (see pages 4 - 11). It has a transmission range of up to 300 metres in open air, and there is no limit to the number of receivers which can be used per group. The unit uses a micro-USB power supply for fast and simple charging in a variety of situations.

Applications:

Ideal for situations where listeners require clear sound, tour guidance or interpretation.

- Museums
- Historical Sites
- · Meeting Rooms
- Conferences
- Places of Worship

What's Included:

- Portable Radio Frequency Receiver
- Earphones
- Belt Clip
- USB Charger Cable
- Lanyard

Physical Data:

| Dimensions | Height – 85mm (3.34") Width – 50mm (1.96") Depth – 15mm (0.59") |
|------------|---|
| Weight | 64g (0.14lbs) |
| Finish | Grey |

Accessories

- 2 Bay Charging Station (see page 12)
- 20 Bay Charger Case (see page 14)
- Inductive Neck Loop (see page 16)
- Underchin Headphones (see page 15)
- Headphones (see page 16)

Technical Data:

| Power Supply | Lithium-Ion rechargeable battery 3.7V / 1100mAh (inbuilt) | |
|------------------------|--|--|
| Transmission Frequency | 2.4GHz (ISM band) | |
| Modulation | FSK, with hopping | |
| Transmission Range | 300m in open air / 100m in buildings | |
| Channels | 40 simultaneous groups | |
| Frequency Response | 50Hz – 7kHz | |
| Transmission Power | 10mW | |
| Sensitivity | -95dBm | |
| Data Rate | 2Mbps | |
| Connectors | 2 x 3.5mm audio output / Mico-USB | |

| Portable Radio Frequency Receiver | RF-RX1 |
|-----------------------------------|--------|
|-----------------------------------|--------|



Portable Radio Frequency Underchin Receiver

This lightweight under-the-chin receiver is compatible with our transmitters (see pages 4 - 8) to provide clear sound to users. The receiver is comfortable, has a transmission range of up to 200 metres in open air, and there is no limit to the number of receivers which can be used per group. The unit uses a rechargeable battery compatible with both our 5 and 10 Bay Charger Cases (see pages 14 - 15).

Volume is amplified, adjustable up to 120dB to assist users with hearing loss.

Spare rubber earbuds are available if required.

Applications:

Ideal for situations where listeners require clear sound, tour guidance or interpretation.

- Museums
- Historical Sites
- Meeting Rooms
- Conferences
- Places of Worship

Accessories

- 5 Bay Charging Station (see page 12)
- 10 Bay Charger Case (see page 13)
- Rubber Earbuds (available on request)

Physical Data:

| Dimensions | Height – 227mm (8.93") Width – 112mm (4.40") Depth – 20mm (0.78") |
|------------|---|
| Weight | 70g (0.15lbs) |
| Finish | Black |

What's Included:

- Portable Radio Frequency Earphone Receiver
- Rechargeable Battery

Technical Data:

| Power Supply | Lithium-Ion rechargeable battery 3.7V / 1100mAh (inbuilt) | |
|------------------------|--|--|
| Transmission Frequency | 2.4GHz (ISM band) | |
| Modulation | FSK, with hopping | |
| Transmission Range | 200m in open air / 100m in buildings | |
| Channels | 40 simultaneous groups | |
| Frequency Response | 50Hz – 7kHz | |
| Transmission Power | 10mW | |
| Sensitivity | -95dBm | |
| Data Rate | 2Mbps | |

| Portable RF Underchin Receiver | RF-RXU |
|--------------------------------|--------|

2 Bay Charging Station for RF Transmitter/Receiver RF-RX-CS2

This 2 Bay Charging Station is for use with our Portable Radio Frequency Transmitter (see page 6) and Portable Radio Frequency Receiver (see page 10) to hold 2 units in a standing position.



Physical Data:

| Dimensions | Height – 45mm (1.77") Width – 154mm (6.06") Depth – 66mm (2.59") |
|------------|--|
| Weight | 140g (0.30lbs) |
| Finish | Black |

Technical Data:

RF Transmitter/Receiver

| Power Supply | 100-240V AC | / 5V DC 0.2A |
|---------------------|-------------|--------------|
| Product Code: | | |
| 2 Bay Charging Stat | | RF-RX-CS2 |

5 Bay Charging Station for RF Underchin Receiver RF-RXU-DC5

Our 5 Bay Charging Station is for use with Portable Radio Frequency Underchin Receiver (see page 11).

This unit can hold up to 5 receivers in a standing position. Two chargers can be daisy-chained together to charge 10 receivers using a single power supply.



Physical Data:

| Dimensions | Height – 38mm (1.49") Width – 160mm (6.29") Depth – 305mm (12.0") |
|------------|---|
| Weight | 540g (1.19lbs) |
| Finish | Black |

Technical Data:

| Power Supply | 230V AC / 12 | V DC 1A |
|-----------------|--------------|------------|
| Product Code: | | |
| 5 Bay RF Earpho | | RF-RXU-DC5 |

10 Bay Charger Case for RF Underchin Receiver

This 10 Bay Charger Case is for use with our Portable Radio Frequency Underchin Receiver (see page 11) and can hold up to 10 receivers in a standing position. The case is provided with a power supply.



Physical Data:

| Dimensions | Height – 393mm (15.5") Width – 635mm (25.0") Depth – 147mm (5.79") |
|------------------------|--|
| Weight 3.5kg (7.71lbs) | |
| Finish | Black |

Technical Data:

| Power Supply 230V AC / 12V DC 3A | | V DC 3A |
|----------------------------------|--|-------------|
| Product Code: | | |
| 10 Bay RF Earpho | | RF-RXU-DC10 |

10 Bay Charger Case for RF Transceiver RF-TRX-MCB

This 10 Bay Charger Case is for use with our Portable Radio Frequency Transceiver (see page 9) and can hold up to 10 transceivers in a standing position. The case is provided with a power supply.



Physical Data:

| Dimensions | Height – 300mm (11.8") Width – 540mm (21.2") Depth – 140mm (5.51") |
|------------|--|
| Weight | 3.7kg (8.15lbs) |
| Finish | Silver |

Technical Data:

| Power Supply | 230V AC / 12VDC 3A |
|--------------|--------------------|
| | |

| 10 Bay RF Transceiver Charging Case | RF-TRX-MCB |
|-------------------------------------|------------|

20 Bay Charger Case for RF Receiver/Transmitter

This charger case is for use with our Portable RF Transmitter (see page 6) and Portable RF Receiver (see pages 12) and can hold up to 20 receivers in a standing position. The case is provided with a power supply.



Physical Data:

| | Dimensions | Height – 300mm (11.8") Width – 540mm (21.2") Depth – 140mm (5.51") |
|---|------------|--|
| | Weight | 3.8kg (8.3lbs) |
| ĺ | Finish | Silver |

Technical Data:

| Power Supply | 230 VAC / 12VDC 3A |
|---------------|--------------------|
| Product Code: | |

RF-DC20

20 Bay RF Transmitter/Receiver

Charging Case

Remote Antenna Kit

RF-TXRA

Our Remote Antenna Kit is for use with the Radio Frequency Rack Transmitter (see page 4) when the latter is installed in a rack.

It enables the antenna from the rear of a transmitter to be fixed at the front of the unit in open air, extending the system's outgoing signal.



Physical Data:

| | Cable Length – 2000mm (78.7") Diameter – 5mm (0.19") |
|------------|---|
| Dimensions | Mounting Bracket Width – 60mm (2.36") Height – 60mm (2.36") Depth – 20mm (0.78") |
| Weight | 195g (0.18lbs) |
| Material | Mounting Bracket – Aluminium 2mm strength |

| Remote Antenna Kit | RF-TXRA |
|--------------------|---------|

Microphone for Portable RF Transmitter

RF-TX1-PM

Our microphone is for use with the Portable RF Transmitter (see page 6) and provides clear sound.



Physical Data:

| - | |
|------------|---|
| Dimensions | Height – 44mm (1.73") Width – 18mm (0.70") Depth – 18mm (0.70") |
| Weight | 12g (0.02lbs) |

Technical Data:

| Power Supply | 3V/DC phantom voltage |
|-----------------|-----------------------|
| Transducer Type | Condenser capsule |
| Connector | 3.5mm mono plug |

Product Code:

| Microphone for Portable RF Transmitter | RF-TX1-PM |
|--|-----------|
| | |

Earworn Microphone for Portable RF TransmitterRF-TX1-EM

The earworn microphone for our Portable RF Transmitter (see page 6) has a 1.2 metre cable and 3.5mm colour-coded jack. It enables handsfree communication with clear sound.



Physical Data:

| Dimensions | Height – 150mm (5.90") Width – 55mm (2.16") Depth – 35mm (1.37") Lead Length – 1.2m (4.72") |
|------------|--|
| Weight | 11g (0.02lbs) |

Technical Data:

| Power Supply | 3V/DC phantom voltage |
|-----------------|----------------------------|
| Transducer Type | Condenser capsule |
| Connector | 3.5mm mono plug - threaded |
| Connector | 3.5mm mono plug - threaded |

| Ear Mic for Portable RF Transmitter | RF-TX1-EM |
|-------------------------------------|-----------|

Headset for Portable RF Transceiver

RF-TRX1-HSM

Our headset for use with the Portable RF Transceiver (see page 9) has a 1.2 metre cable and 3.5mm colour-coded jack.



Physical Data:

| Dimensions | Height – 120mm (4.72") Width – 155mm (6.10") Depth – 180mm (7.08") Lead Length – 1.2m (47.2") |
|------------|--|
| Weight | 66g (0.14lbs) |

Technical Data:

| Power Supply | 3V/DC phantom voltage |
|-----------------|-----------------------|
| Transducer Type | Condenser capsule |
| Connector | 3.5mm stereo jack |

Product Code:

| Headset for Portable RF Transceiver | RF-TRX1-HSM |
|-------------------------------------|-------------|
|-------------------------------------|-------------|

Headphones

IR-HP1

Our black stereo headphones use a 2 metre lead and uses a standard 3.5mm audio jack.



Physical Data:

| Dimensions | Height – 175mm (6.80") Width – 150mm (5.90") Depth – 15mm (0.59") Lead Length – 2 metres (78.7") |
|------------|---|
| Weight | 48g (0.10lbs) |
| Finish | Black |

Technical Data:

| Impedance | 32Ω |
|--------------------|------------------|
| Frequency Response | 20-20000Hz |
| Sensitivity | 104dB |
| Connection | 3.5mm audio plug |

| Headphones | IR-HP1 |
|------------|--------|

Underchin Headphones

IR-HP2

Our under-the-chin headphones connects to the Portable Radio Frequency Receiver (see page 10) using a standard 3.5mm audio jack. It uses earpieces which fit comfortably into the ear.

Additional rubber ear-buds are available if required.



Physical Data:

| Dimensions | Height – 220mm (8.66") Width – 135mm (5.31") Depth – 20mm (0.78") Lead Length – 780mm (30.7") |
|------------|--|
| Weight | 22g (0.04lbs) |
| Finish | Black |

Technical Data:

| Impedance | 32Ω |
|------------|------------------|
| Connection | 3.5mm audio jack |

Product Codes:

| Underchin Headphones | IR-HP2 |
|----------------------|--------|
|----------------------|--------|

Inductive Neck Loop

RF-NL1

Our Inductive Neck Loop is a compact listening device which connects to our Portable Radio Frequency Receiver (see page 10) and enables users to listen using a hearing instrument equipped with a Telecoil.

It connects to receivers using a 3.5mm stereo jack.



Physical Data:

| Dimensions | Height – 420mm (16.5") Width – 35.5mm (1.4") Depth – 10mm (0.39") Lead Length – 1m (39.3") |
|------------|---|
| Weight | 49g (0.10lbs) |
| Finish | Black |

Technical Data:

| Impedance | 16Ω | |
|---------------------|-----------------------|--|
| Channel | @1KHz / Isolated | |
| Connection | 3.5mm stereo jack | |
| Maximum Power Input | 0.5 watts per channel | |

| Infrared Neck Loop | RF-NL1 |
|--------------------|--------|



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