



## RFID Equipment Overview

### RFID Tags:

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#### UHF (ultra high frequency) Tags – suitable for tracking

- 4" long by 1/2 " wide, paper thin
- Self adhesive
- Supplied on reels of up to 20,000 pcs
- Do not need to be cut apart – simply peel and stick
- Need to be mounted vertically on the back of the badge or badgeholder.
- Can only be encoded with hex digits (ie. numbers 0-9 and letters A-F)
- Can be encoded with a maximum of 12 digits
- To encode: use an ExpoTools UHF PadPro or Combo PadPro device
- To read: use ExpoTools Door Gates or RF503-UHF readers

#### HF (high frequency) Tags – suitable for Lead Retrieval

- 1.8" wide by 3" long, paper thin
- Not self adhesive
- Supplied on reels of up to 20,000 pcs
- Need to be cut apart
- Should be dropped between a folded paper badge or behind a paper badge then placed in a badge holder
- Can be encoded with alphanumeric characters
- Can be encoded with a maximum of 250 characters (including all field separators, stop/start characters, etc)
- To encode: use an ExpoTools HF PadPro or Combo PadPro device
- To read: use an ExpoTools RF600, or AT700 handheld reader, or RF503-HF reader

## ExpoTools Readers:

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### **RF600:**

- Reads HF tags only
- Portable, handheld
- 2" read range
- Similar to the BC600 barcode scanner but reads RFID tags instead of barcodes
- Simple to operate

### **AT700:**

- Reads HF tags as well as barcodes and magstripe
- Portable, handheld
- 2" read range
- Color touch screen
- Advanced features

### **RF503-HF**

- Reads HF tags only
- Table or wall mount – not portable
- Requires AC outlet
- 4-5" read range

### **RF503-UHF**

- Reads UHF tags only
- Table or wall mount – not portable
- Requires AC outlet
- 7-8" read range

### **DG200 Door Gate**

- Reads UHF tags only
- Self standing
- Applicable for hallways and doorways
- Works at up to a 7 ft distance
- Requires an AC outlet

## ExpoTools Encoders:

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### HF PadPro

- For encoding HF tags only
- Can be connected to a computer or used in standalone mode
- Computer Mode: use a PC application and a CSV type file to specify the data to be encoded
- Standalone mode: the data to be encoded is obtained when the PadPro reads a barcode
- Standalone mode: all data from the barcode is read by the PadPro and encoded into the HF tag

### UHF PadPro

- For encoding UHF tags or HF tags – can be set for one type or the other
- Can be connected to a computer or used in standalone mode
- Computer Mode: use a PC application and a CSV type file to specify the data to be encoded
- Standalone mode: the data to be encoded is obtained when the PadPro reads a barcode
- Standalone mode: You must specify the barcode field to be used by the PadPro when encoding UHF tags and that field must only contain hex characters.

### Combo PadPro

- For encoding UHF tags and HF tags simultaneously
- Can be connected to a computer or used in standalone mode
- Computer Mode: use a PC application and a CSV type file to specify the data to be encoded
- Standalone mode: the data to be encoded is obtained when the PadPro reads a barcode
- Standalone mode: all data from the barcode is read by the PadPro and encoded into the HF tag
- Standalone mode: You must specify the barcode field to be used by the PadPro when encoding UHF tags and that field must only contain hex characters.