

4. EX READER WITH MEMORY

Functionality:

1. Can read and store up to 511 ID numbers.
2. When a new ID number is read, the scanner will automatically store the ID number and indicate the total numbers of IDs stored in the memory.
e.g. When a new tag is read, the scanner will display the tag's ID number (e.g. "9851002003") and then display the total number of ID's stored (e.g. "3/511") (3/511 indicates that this is the 3rd ID number stored in the memory that can store up to 511 ID numbers)
Note:
 - if the same ID is read consecutively, the same ID number will not be stored consecutively into the memory (to prevent accidental duplication of the same ID in one scan)
 - only a new ID that is different from the last stored ID will be stored into a new memory location.
3. When 500 IDs have been stored, the scanner will display a warning of LOW memory.
e.g. When the 500th tag is read and stored, the scanner will:
 - display the tag's ID number and then
 - display "LOW MEM 500/511" (indicates that this is the 500th ID number stored in the memory and the memory is LOW)
 - The same function for tags 501 - 510.
4. When 511 IDs have been stored, the scanner will display a warning of FULL memory.
e.g. When the 511th tag is read and stored, the scanner will:
 - display the tag's ID number and then
 - display "FULL MEM 511/511" (indicates that this is the 511th ID number stored in the memory and the memory is FULL)
5. If the scanner scans a new tag after reading and storing 511 IDs (Memory FULL), the scanner will not decode/store the new ID, but instead displays the following warning messages 3 times (accompany with a beep sound), and then shuts itself off automatically.
 - "MEM FULL 511/511"
 - "DOWNLOAD/DELETE?"
 - "SEE MANUAL"

4. EX READER WITH MEMORY (continued)

Download Stored ID Numbers

Procedures to get to the download mode:

1. Connect the scanner to the PC through the serial port:
Set up communication parameters as follows:
Baud rate: <4800>
Data bits: <8>
Stop bit: <1>
Parity: <None>
Flow control: <None>
2. Turn on the scanner:
- during initialization of the unit, the scanner displays: "MEMORY INIT" and shows the version number "E419-EEPHis ENG"
(E-Revision E, 419-ISO Silver board, EEP-EProm, HIS-HISTorical)
- Then the scanner will be in an idle mode and displays: "READY"
3. If the user presses <Esc> on the PC keyboard, the scanner will then:
- switch to Console mode and display this message: "CONSOLE MODE"
4. Once in console mode, the following message will be displayed on the PC screen:
- "Pocket Reader Console"
>
5. The user can select any of the following commands by typing the corresponding command character:
<?> - Help manual
<D> - Download buffer from memory
<E> - Erase memory
<S> - Memory Stats
<X> - Exit console mode
6. If the user types in a character different from the above command character, the following message will be displayed:
"Unknown command!"

4. EX READER WITH MEMORY (continued)

7. Other messages may occur on the PC screen as various commands are executed:
 - “Done”
 - “Exiting console”
 - “Beginning Download”
 - “Erasing memory”
 - “Record erased”
 - “Valid record(s)”
8. Type <X> to exit console mode.

Delete Stored ID Numbers:

Procedures to get to the delete mode:

Option 1 (Scanner connected with PC):

- Connect the scanner to PC and set up the communication parameters (4800, 8, 1, N)
- Turn on the scanner
- Type “Esc” on the PC when the scanner displays “READY”
- The scanner will be switched to “CONSOLE MODE” and the PC screen displays “Pocket Reader Console”
- Type “E” to erase all memory.

Option 2 (scanner disconnected from PC):

- When the version number “E419-EEPHIS ENG” is displayed at start up
- If the user press and release the button quickly, those two strings are shown (accompanied by beep sound) one after the other to inform user on how to delete memory without the serial connection:
 - “HOLD BUTTON TO”
 - “DELETE STORED ID”
- If the user presses the button, the display will show:
 - “HOLD TO DELETE”
- Then if the user holds on long enough we will get this message:
 - “DELETING” (accompanied by high frequency beep sound)
 - “ALL ID DELETED”
- If button is not pressed or if it is released too soon (before the delay expires), the display will show:
 - “NO ID DELETED”

4. EX READER WITH MEMORY (continued)

Memory add-on

Scanner may be equipped with a 511 ID-tag memory. If this feature is present, #/511 will be displayed after the ID number. # will be replaced with the number of ID numbers that is currently in memory. When memory is full the scanner will not decode any more microchips. A warning to download and clear memory will display.

Downloading ID Numbers

Connect computer serial port to scanner.

Setup communication parameters as follows:

Baud rate:	4800
Data bits:	8
Stop bit:	1
Parity:	None
Flow control:	None

With the terminal program running on the computer, turn on the scanner, when it says ready on display, press <esc> key on computer. This should change display of scanner to read "CONSOLE MODE". Setup terminal program to receive a text file, and then press <D> to start transmission from scanner. When done receiving, close and save computer file.

Commands for scanner are as follows:

<?> - Help	Displays scanner commands on computer.
<D> - Download	Scanner sends ID numbers in memory as text to computer.
<E> - Erase memory	Clear all ID numbers from scanner memory.
<S> - Status	Report the number of IDs in scanner memory.
<X> - Exit	Return scanner to normal operation mode.

Clearing Scanner Memory

There are two ways to clear the scanner memory. It can be done through the terminal program by pressing <E> when the computer is connected to a scanner in Console Mode, or without a computer connected in the following manner. During display of the version number on scanner at start up, press and release the button quickly.

While scanner displays "HOLD BUTTON TO" and "DELETE STORED ID" along with a beep, press the button again and hold it down. If button is held long enough, the reader will delete all ID numbers in memory and display: "ALL ID DELETED". If the button is not held long enough, the scanner will display "NO ID DELETED", and ID numbers will remain in scanner's memory.