|  |  |  |
| --- | --- | --- |
| **Factory Default** | | |
|  | **Set** | |
|  | Factory default settings | %++% |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Interface** | | |
|  | **Set** | |
|  | RS232 | OP01 |
|  | **USB Keyboard** | **OP02** |
|  | USB Virtual COM Port | OP03 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Scan Mode** | | |
|  | **Set** | |
|  | **Handheld Mode** | MD01 |
|  | Hands Free Mode | MD02 |
|  | Continue Scan | MD03 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Delay Time for Same Code** | | |
|  | **Set** | |
|  | 200 msec | SD0 |
|  | 250 msec | SD1 |
|  | 300 msec | SD2 |
|  | **End** | |

|  |  |
| --- | --- |
| **Aiming Pattern** | |
|  | **Set** |
|  | **On** |
|  | Always On |
|  | Off |
|  | **End** |

|  |  |  |
| --- | --- | --- |
| **Keyboard Caps Lock State** | | |
|  | **Set** | |
|  | **Caps Lock Off** | CS0 |
|  | Caps Lock On | CS1 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Readable Codes** | | |
|  | **Set** | |
|  | **Enable UPC-E** | EC02 |
|  | Disable UPC-E | DC02 |
|  | **Enable EAN 8** | EC03 |
|  | Disable EAN 8 | DC03 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Readable Codes** | | |
|  | **Set** | |
|  | **Enable EAN 13** | EC04 |
|  | Disable EAN 13 | DC04 |
|  | **Enable Code 128** | EC05 |
|  | Disable Code 128 | DC05 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Readable Codes** | | |
|  | **Set** | |
|  | **Enable Code 39** | EC06 |
|  | Disable Code 39 | DC06 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Readable Codes** | | |
|  | **Set** | |
|  | **Enable Codabar** | **EC10** |
|  | Disable Codabar | DC10 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Readable Codes** | | |
|  | **Set** | |
|  | **Enable Interleaved 2 of 5** | **EC13** |
|  | Disable Interleaved 2 of 5 | DC13 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Readable Codes** | | |
|  | **Set** | |
|  | **Enable PDF417** | EC24 |
|  | Disable PDF417 | DC24 |
|  | **Enable Micro PDF417** | EC25 |
|  | Disable Micro PDF417 | DC25 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Readable Codes** | | |
|  | **Set** | |
|  | **Enable Data Matrix** | EC26 |
|  | Disable Data Matrix | DC26 |
|  | **Enable QR** | EC27 |
|  | Disable QR | DC27 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **UPC / EAN** | | |
|  | **Set** | |
|  | Enable decoding of 2/5-digit supplemental code for UPC-A, UPC-E, EAN-13, and EAN-8 | UN01 |
|  | **Disable decoding of 2/5-digit supplemental code for UPC-A, UPC-E, EAN-13, and EAN-8** | UN02 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **UPC-A** | | |
|  | **Set** | |
|  | **Enable UPC-A Number System digit** | UA01 |
|  | Disable UPC-A Number System digit | UA02 |
|  | **Enable UPC-A check digit.** | UA03 |
|  | Disable UPC-A check digit | UA04 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **UPC-A** | | |
|  | **Set** | |
|  | Enable conversion of UPC-A to EAN13 | UA05 |
|  | **Disable conversion of UPC-A to EAN13** | UA06 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **UPC-E** | | |
|  | **Set** | |
|  | **Enable UPC-E Number System digit** | UE01 |
|  | Disable UPC-E Number System digit | UE02 |
|  | **Enable UPC-E check digit** | UE03 |
|  | Disable UPC-E check digit | UE04 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **UPC-E** | | |
|  | **Set** | |
|  | Enable conversion of UPC-E to UPC-A | UE05 |
|  | **Disable conversion of UPC-E to UPC-A** | UE06 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **EAN 8** | | |
|  | **Set** | |
|  | **Enable EAN 8 check digit** | E801 |
|  | Disable EAN 8 check digit | E802 |
|  | Enable conversion of EAN 8 to EAN 13 | E803 |
|  | **Disable conversion of EAN 8 to EAN 13** | E804 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **EAN 13** | | |
|  | **Set** | |
|  | **Enable EAN 13 check digit** | ED01 |
|  | Disable EAN 13 check digit | ED02 |
|  | Enable conversion of EAN 13 to ISBN | ED03 |
|  | **Disable conversion of EAN 13 to ISBN** | ED04 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **EAN 13** | | |
|  | **Set** | |
|  | Enable conversion of EAN 13 to ISSN | ED05 |
|  | **Disable conversion of EAN 13 to ISSN** | ED06 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Code 39** | | |
|  | **Set** | |
|  | Enable Code 39 full ASCII mode | C39a |
|  | **Disable Code 39 full ASCII mode** | C39b |
|  | Enable Start and Stop characters | C39c |
|  | **Disable Start and Stop characters** | C39d |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Code 39** | | |
|  | **Set** | |
|  | **Disable Checksum** | C39e |
|  | Enable checksum and send check character | C39f |
|  | Enable checksum and strip check character | C39g |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Codabar** | | |
|  | **Set** | |
|  | **Disable Checksum** | CBRa |
|  | Enable checksum and send check character | CBRb |
|  | Enable checksum and strip check character | CBRc |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Interleaved 2 of 5** | | |
|  | **Set** | |
|  | **Disable Checksum** | I25a |
|  | Enable checksum and send check character | I25b |
|  | Enable checksum and strip check character | I25c |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Interleaved 2 of 5** | | |
|  | **Set** | |
|  | **Default quiet zone checking No length checking performed** | I25d |
|  | Smaller quiet zone allowed | I25e |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Data Matrix** | | |
|  | **Set** | |
|  | **Enable mirror decoding** | DMXa |
|  | Disable mirror decoding | DMXb |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Data Matrix** | | |
|  | **Set** | |
|  | Enable rectangular Data Matrix decoding | DMXc |
|  | **Disable rectangular Data Matrix decoding** | DMXd |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **QR / Micro QR** | | |
|  | **Set** | |
|  | **Enable mirror decoding** | QR01 |
|  | Disable mirror decoding | QR02 |
|  | UTF8 conversion for word only | QRC0 |
|  | **Universal UTF8 conversion** | QRC1 |
|  | **End** | |

# Set Lengths for Codes

## One Discrete Length

Select this option to decode the symbol containing a selected length. Select the length using the numeric bar codes in ASCII Code Table. For example, to decode only Code 128 symbols with 14 characters, scan **Code 128 One Discrete Length**, then scan **1** followed by **4**.

## Two Discrete Lengths

Select this option to decode the symbol containing either of two selected lengths. Select lengths using the numeric bar codes in ASCII Code Table. For example, to decode only Code 128 symbols containing either 2 or 14 characters, select **Code 128 Two Discrete Lengths**, then scan **0**, **2**, **1**, and

then **4**.

## Length Within Range

Select this option to decode the symbol with a specific length range.

Select lengths using numeric bar codes in ASCII Code Table. For example, to decode

Code 128 symbols containing between 4 and 12 characters, first scan **Code 128 Length Within Range**. Then scan **0**, **4**, **1,** and **2**.

## Any Length

Select this option to decode the symbol containing any number of characters within the digital scanner’s capability.

|  |  |  |
| --- | --- | --- |
| **Set Lengths for Code 128** | | |
|  | **Set** | |
|  | One Discrete Length | ODL0 |
|  | Two Discrete Lengths | TDL0 |
|  | Length Within Range | LWR0 |
|  | **Any Length** | ANL0 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Set Lengths for Code 39** | | |
|  | **Set** | |
|  | One Discrete Length | ODL1 |
|  | Two Discrete Lengths | TDL1 |
|  | Length Within Range | LWR1 |
|  | **Any Length** | ANL1 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Set Lengths for Codabar** | | |
|  | **Set** | |
|  | One Discrete Length | ODL3 |
|  | Two Discrete Lengths | TDL3 |
|  | Length Within Range | LWR3 |
|  | **Any Length** | ANL3 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Set Lengths for Interleaved 2 of 5** | | |
|  | **Set** | |
|  | One Discrete Length | ODL4 |
|  | Two Discrete Lengths | TDL4 |
|  | Length Within Range | LWR4 |
|  | **Any Length** | ANL4 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
|  | 0 | N0 |
|  | 1 | N1 |
|  | 2 | N2 |
|  | 3 | N3 |
|  | 4 | N4 |

|  |  |  |
| --- | --- | --- |
|  | 5 | N5 |
|  | 6 | N6 |
|  | 7 | N7 |
|  | 8 | N8 |
|  | 9 | N9 |

|  |  |  |
| --- | --- | --- |
| **Code Identifiers** | | |
|  | **Set** | |
|  | **Disable Code ID** | $D0 |
|  | Enable AIM ID | $D1 |
|  | **End** | |

|  |  |
| --- | --- |
| Symbology | AIM |
| UPC-A | ]E |
| UPC-E | ]E |
| EAN 8 | ]E |
| EAN 13 | ]E |
| Code 128 | ]C |
| Code 39 | ]A |
| Code 93 | ]G |
| Code 32 | ]X |
| Codabar | ]F |
| Plessey | ]P |
| Interleaved 2 of 5 | ]I |
| IATA 2 of 5 | ]R |
| Matrix 2 of 5 | ]X |
| Straight 2 of 5 | ]S |
| Pharmacode | ]X |
| RSS Limited | ]e |
| Component CC-A | ]e |
| Component CC-B | ]e |
| Component CC-C | ]e |
| PDF417 | ]L |
| Micro PDF417 | ]L |
| Data Matrix | ]d |
| QR | ]Q |
| Micro QR | ]Q |
| Aztec | ]Z |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable All | EP00 |
|  | **Disable All** | DP00 |
|  | Enable UPC-A | EP01 |
|  | Disable UPC-A | DP01 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable UPC-E | EP02 |
|  | Disable UPC-E | DP02 |
|  | Enable EAN 8 | EP03 |
|  | Disable EAN 8 | DP03 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable EAN 13 | EP04 |
|  | Disable EAN 13 | DP04 |
|  | Enable Code 128 | EP05 |
|  | Disable Code 128 | DP05 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable Code 39 | EP06 |
|  | Disable Code 39 | DP06 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable Codabar | EP10 |
|  | Disable Codabar | DP10 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable Interleaved 2 of 5 | EP13 |
|  | Disable Interleaved 2 of 5 | DP13 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable PDF417 | EP24 |
|  | Disable PDF417 | DP24 |
|  | Enable Micro PDF417 | EP25 |
|  | Disable Micro PDF417 | DP25 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable Data Matrix | EP26 |
|  | Disable Data Matrix | DP26 |
|  | Enable QR | EP27 |
|  | Disable QR | DP27 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Prefix** | | |
|  | **Set** | |
|  | Enable Micro QR | EP28 |
|  | Disable Micro QR | DP28 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable All | ES00 |
|  | **Disable All** | DS00 |
|  | Enable UPC-A | ES01 |
|  | Disable UPC-A | DS01 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable UPC-E | ES02 |
|  | Disable UPC-E | DS02 |
|  | Enable EAN 8 | ES03 |
|  | Disable EAN 8 | DS03 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable EAN 13 | ES04 |
|  | Disable EAN 13 | DS04 |
|  | Enable Code 128 | ES05 |
|  | Disable Code 128 | DS05 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable Code 39 | ES06 |
|  | Disable Code 39 | DS06 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable Codabar | ES10 |
|  | Disable Codabar | DS10 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable Interleaved 2 of 5 | ES13 |
|  | Disable Interleaved 2 of 5 | DS13 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable PDF417 | ES24 |
|  | Disable PDF417 | DS24 |
|  | Enable Micro PDF417 | ES25 |
|  | Disable Micro PDF417 | DS25 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable Data Matrix | ES26 |
|  | Disable Data Matrix | DS26 |
|  | Enable QR | ES27 |
|  | Disable QR | DS27 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **Suffix** | | |
|  | **Set** | |
|  | Enable Micro QR | ES28 |
|  | Disable Micro QR | DS28 |
|  | **End** | |

|  |  |  |
| --- | --- | --- |
| **ASCII Code Table** | | |
|  | Insert | K1 |
|  | Delete | K2 |
|  | Home | K3 |
|  | End | K4 |
|  | Up arrow | K5 |
|  | Down arrow | K6 |

|  |  |  |
| --- | --- | --- |
|  | Left arrow | K7 |
|  | Right arrow | K8 |
|  | TAB | K9 |
|  | Backspace | K10 |
|  | Shift | K11 |
|  | ESC | K12 |

|  |  |  |
| --- | --- | --- |
|  | Page up | K13 |
|  | Page down | K14 |
|  | F1 | F1 |
|  | F2 | F2 |
|  | F3 | F3 |
|  | F4 | F4 |

|  |  |  |
| --- | --- | --- |
|  | F5 | F5 |
|  | F6 | F6 |
|  | F7 | F7 |
|  | F8 | F8 |
|  | F9 | F9 |
|  | F10 | F10 |

|  |  |  |
| --- | --- | --- |
|  | F11 | F11 |
|  | F12 | F12 |
|  | SPACE | S0 |
|  | ! | S1 |
|  | " | S2 |
|  | # | S3 |

|  |  |  |
| --- | --- | --- |
|  | $ | S4 |
|  | % | S5 |
|  | & | S6 |
|  | ' | S7 |
|  | ( | S8 |
|  | ) | S9 |

|  |  |  |
| --- | --- | --- |
|  | \* | S10 |
|  | + | S11 |
|  | , | S12 |
|  | - | S13 |
|  | . | S14 |
|  | / | S15 |

|  |  |  |
| --- | --- | --- |
|  | : | B0 |
|  | ; | B1 |
|  | < | B2 |
|  | = | B3 |
|  | > | B4 |
|  | ? | B5 |

|  |  |  |
| --- | --- | --- |
|  | @ | B6 |
|  | 0 | N0 |
|  | 1 | N1 |
|  | 2 | N2 |
|  | 3 | N3 |
|  | 4 | N4 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | | N5 |
|  | 6 | | N6 |
|  | 7 | | N7 |
|  | 8 | | N8 |
|  | 9 | | N9 |
|  | ASCII Code | Function Key Mapping | $A |
| A | Ctrl+a |

|  |  |  |  |
| --- | --- | --- | --- |
|  | ASCII Code | Function Key Mapping | $B |
| B | Ctrl+b |
|  | C | Ctrl+c | $C |
|  | D | Ctrl+d | $D |
|  | E | Ctrl+e | $E |
|  | F | Ctrl+f | $F |
|  | G | Ctrl+g | $G |

|  |  |  |  |
| --- | --- | --- | --- |
|  | ASCII Code | Function Key Mapping | $H |
| H | Ctrl+h |
|  | I | Ctrl+i | $I |
|  | J | Ctrl+j | $J |
|  | K | Ctrl+k | $K |
|  | L | Ctrl+l | $L |
|  | M | Ctrl+m | $M |

|  |  |  |  |
| --- | --- | --- | --- |
|  | ASCII Code | Function Key Mapping | $N |
| N | Ctrl+n |
|  | O | Ctrl+o | $O |
|  | P | Ctrl+p | $P |
|  | Q | Ctrl+q | $Q |
|  | R | Ctrl+r | $R |
|  | S | Ctrl+s | $S |

|  |  |  |  |
| --- | --- | --- | --- |
|  | ASCII Code | Function Key Mapping | $T |
| T | Ctrl+t |
|  | U | Ctrl+u | $U |
|  | V | Ctrl+v | $V |
|  | W | Ctrl+w | $W |
|  | X | Ctrl+x | $X |
|  | Y | Ctrl+y | $Y |

|  |  |  |  |
| --- | --- | --- | --- |
|  | ASCII Code | Function Key Mapping | $Z |
| Z | Ctrl+z |
|  | a | | +A |
|  | b | | +B |
|  | c | | +C |
|  | d | | +D |
|  | e | | +E |

|  |  |  |
| --- | --- | --- |
|  | f | +F |
|  | g | +G |
|  | h | +H |
|  | i | +I |
|  | j | +J |
|  | k | +K |

|  |  |  |
| --- | --- | --- |
|  | l | +L |
|  | m | +M |
|  | n | +N |
|  | o | +O |
|  | p | +P |
|  | q | +Q |

|  |  |  |
| --- | --- | --- |
|  | r | +R |
|  | s | +S |
|  | t | +T |
|  | u | +U |
|  | v | +V |
|  | w | +W |

|  |  |  |
| --- | --- | --- |
|  | x | +X |
|  | y | +Y |
|  | z | +Z |