



## CS-1504 User Parameters

**Notes:**

1. Although these parameters are derived from the CS-2000 parameter set, no provisions have been made to assure backwards compatibility with existing CyberPen or CS2000 applications.

*There are no barcode changeable parameters in the CS-1504; they are only changeable by host command.*

| Parameter                  | Comments   | Min/Max Values  | Rev B Defaults  |  | Param Num    |
|----------------------------|--|---|-----------------|--|--------------|
| Code 39                    |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 31<br>(0x1f) |
| UPC                        |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 9<br>(0x09)  |
| Code128                    |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 8<br>(0x08)  |
| Code 39 Full ASCII         |  | 1=Enable /<br>0=Disable                               | Disabled        |  | 54<br>(0x36) |
| UPC Supps                  |  | 0=No Supps<br>1=Supps only<br>2=Auto-D                | 2=Auto-D        |  | 53<br>(0x35) |
| Convert UPC E to A         |  | 1=Enable /<br>0=Disable                               | Disabled        |  | 41<br>(0x29) |
| Convert EAN8 to EAN13      |  | 1=Enable /<br>0=Disable                               | Disabled        |  | 42<br>(0x2a) |
| Convert EAN8 to EAN13 Type | Set code type of converted EAN8 barcode to EAN8 or EAN13 | 1=Enable /<br>0=Disable                               | Disabled        |  | 55<br>(0x37) |
| Send UPC A Check Digit     |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 43<br>(0x2b) |
| Send UPC E Check Digit     |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 44<br>(0x2c) |
| Code 39 Check Digit        |  | 1=Enable /<br>0=Disable                               | Disabled        |  | 46<br>(0x2e) |
| Xmit Code 39 Check Digit   |  | 1=Enable /<br>0=Disable                               | Disabled        |  | 45<br>(0x2d) |
| UPCE_Preamble              |  | 0=None<br>1=System char<br>2=Sys char & country code  | 1 = System Char |  | 37<br>(0x25) |
| UPCA_Preamble              |  | 0=None<br>1=System char<br>2=Sys char & country code  | 1 = System Char |  | 36<br>(0x24) |
| EAN 128                    |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 52<br>(0x34) |
| Coupon Code                |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 56<br>(0x38) |
| I 2of5                     |  | 1=Enable /<br>0=Disable                               | Enabled         |  | 58<br>(0x3A) |
| I 2of5 Check Digit         |  | 0=Disabled<br>1=USS check digit<br>2=OPCC check digit | Disabled        |  | 65<br>(0x41) |
| Xmit I 2of5 Check Digit    |  | 1=Enable /<br>0=Disable                               | Disabled        |  | 64<br>(0x40) |

|  |  |   |                    |  |                              |
|--|--|---|--------------------|--|------------------------------|
| <b>Convert ITF14 to EAN 13</b>                       |  | 1=Enable /<br>0=Disable   | Disabled           |  | 63<br>(0x3F)                 |
| <b>I 2of5 Length 1, Length 2</b>                     | One Discrete Length<br>Two Discrete Lengths<br>Length Within Range<br>Any Length | L1 = length, L2 = 0<br><br>L1 > L2<br><br>L1 < L2<br><br>L1 = 0, L2 = 0 | L1 = 14,<br>L2 = 0 |  | 59<br>(0x3B)<br>60<br>(0x3C) |
| <b>D 2of5</b>  |  | 1=Enable /<br>0=Disable   | Disabled           |  | 57<br>(0x39)                 |
| <b>D 2of5 Length 1, Length 2</b>                     | One Discrete Length<br>Two Discrete Lengths<br>Length Within Range<br>Any Length | L1 = length, L2 = 0<br><br>L1 > L2<br><br>L1 < L2<br><br>L1 = 0, L2 = 0 | L1 = 12,<br>L2 = 0 |  | 61<br>(0x3D)<br>62<br>(0x3E) |
| <b>Upcean Security Level</b>                         |  | 0 – 3   | 0                  |  | 47<br>(0x2f)                 |
| <b>UPC/EAN Supplemental Redundancy (No_supp_max)</b> | # of times to decode UPC/EAN barcode without supplementals                       | 2 – 20  | 5                  |  | 48<br>(0x30)                 |

| Parameter                | Comments   | Min/Max Values  | Rev B Defaults |  | Param Num |
|--------------------------|--|---|----------------|--|-----------|
| Scanner On-Time          |  | 1 sec. – 10 sec. in 100 msec increments   | 30 (3.0 sec)   |  | 17 (0x11) |
| Volume                   |  | 0=Off<br>1=On   | 1 = On         |  | 2 (0x02)  |
| Comm Awake Time          | How long scanner will stay awake for host communication                          | 1 – 6 (20 seconds – 2 minutes in 20sec. Increments)   | (1) 20 seconds |  | 32 (0x20) |
| Baud Rate                |  | 3 = 300<br>4 = 600<br>5 = 1200<br>6 = 2400<br>7 = 4800<br>8 = 9600<br>9 = 19200   | 9600           |  | 13 (0x0d) |
| Baud Switch Delay        | How long scanner will delay before sending a response to a new baud rate command | 0 – 1second in 10ms increments  | 35 (350 ms)    |  | 29 (0x1d) |
| Reset Baud Rates         | Determines if default baud rate will be used on power-up                         | 1=Enable / 0=Disable  | Enabled        |  | 28 (0x1c) |
| Reject Redundant Barcode | Disabling will allow same barcode to be stored consecutively                     | 1=Enable / 0=Disable  | Disabled       |  | 4 (0x04)  |
| Host Connect Beep        |  | 1=Enable / 0=Disable  | Enabled        |  | 10 (0x0a) |
| Host Complete Beep       |  | 1=Enable / 0=Disable  | Enabled        |  | 11 (0x0b) |
| Low-Battery Indication   | Determines how low battery condition will be handled.                            | 0=No indication / No operation<br>1=No Indication / Allow operation<br>2=Indicate / No operation<br>3=Indicate / Allow operation. | 3              |  | 7 (0x07)  |
| Auto_Clear               | Clear barcodes after upload.   | 1=Enable / 0=Disable  | Disabled       |  | 15 (0x0f) |

| Parameter                      | Comments  | Min/Max Values   | Rev B Defaults                               |  | Param Num |
|--------------------------------|---|--|--|--|-----------|
| <b>Delete_Enable</b>           | Determines operation of delete and clear all functions.                   | 0= Delete Disabled/Clear All Disabled<br>1=Delete Disabled/Clear All Enabled<br>2=Delete Enabled/Clear All Disabled<br>3=Delete Enabled/Clear All Enabled<br>4=Radio Stamp<br>5=VDIU Voluntary Device Initiated Upload | <b>3 = Delete Enabled /Clear All Enabled</b> |  | 33 (0x21) |
| <b>Data Protection</b>         |   | 1=Enable / 0=Disable   | <b>Disabled</b>                              |  | 49 (0x31) |
| <b>Memory Full Indication</b>  |   | 1=Enable / 0=Disable   | <b>Enabled</b>                               |  | 50 (0x32) |
| <b>Memory Low Indication</b>   | EEPROM is 90% full  | 1=Enable / 0=Disable   | <b>Disabled</b>                              |  | 51 (0x33) |
| <b>Max Barcode Len</b>         | Increased to 30 for Coupon Code   | 1 – 30   | <b>30</b>                                    |  | 34 (0x22) |
| <b>Good Decode LED On Time</b> |   | 250 ms. – 1 sec. in 250msec. Increments  | <b>4 (1.0 sec)</b>                           |  | 30 (0x1e) |
| <b>Store_RTC</b>               | Store Real Time Clock data  | 1=Enable / 0=Disable   | <b>Enabled</b>                               |  | 35 (0x23) |
| <b>ASCII mode</b>              | Allows user to choose how unencrypted data is to be sent.                 | 0 = Like encrypted data (CS-1504 Mode)<br>1 = As ASCII strings (like CS-2000)  | <b>0</b>                                     |  | 79 (0x4f) |
| <b>Beeper Toggle</b>           | Allows user to toggle beeper On/Off with the scan key                     | 0 = No<br>1 = Yes  | <b>1</b>                                     |  | 85 (0x55) |
| <b>Beeper Auto On</b>          | Automatically turns on a beeper toggled off by the scan key after 8 hours | 0 = No<br>1 = Yes  | <b>0</b>                                     |  | 86 (0x56) |
| <b>Scratch Pad</b>             | A 32 byte storage area unused by the CS-1504. For customer use.           | None   | <b>No Default Values</b>                     |  | 38 (0x26) |