

# 2D Scan Engine Configuration Guide

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## 2D Barcode Scanner Configuration Guide



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**NOTE:** The configuration change will take effect immediately and saved to memory.

<b>USB Keyboard Mode</b>  M0002_01 <b>A1</b>	<b>USB Downloader Mode</b>  M0004_01 <b>A2</b>	<b>USB Virtual COM One Way Mode</b>  M0005_01 <b>A3</b>	<b>USB Native Two Way Mode</b>  M0006_01 <b>A4</b>
<b>USB HID POS (Terminal ID 131)</b>  M0003_01 <b>B1</b>	<b>Reset to USB Factory Defaults</b>  M0001_02 <b>B2</b>	<b>UART Flow Control None (Default)</b>  M0031_01 <b>B3</b>	<b>UART Flow Control Hardware</b>  M0032_01 <b>B4</b>
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<b>RS-232 Interface 8 Data Bits - Default</b>  M0019_01 <b>D1</b>	<b>RS-232 Interface 1200 Baud Rate</b>  M0020_01 <b>D2</b>	<b>RS-232 Interface 2400 Baud Rate</b>  M0021_01 <b>D3</b>	<b>RS-232 Interface 4800 Baud Rate</b>  M0022_01 <b>D4</b>
<b>RS-232 Interface 9600 Baud Rate</b>  M0023_01 <b>E1</b>	<b>RS-232 Interface 19200 Baud Rate</b>  M0024_01 <b>E2</b>	<b>RS-232 Interface 38400 Baud Rate</b>  M0025_01 <b>E3</b>	<b>RS-232 Interface 57600 Baud Rate</b>  M0026_01 <b>E4</b>
<b>RS-232 Interface 115200 Baud Rate - Default</b>  M0027_01 <b>F1</b>	<b>RS-232 Interface Even Parity</b>  M0028_01 <b>F2</b>	<b>RS-232 Interface Odd Parity</b>  M0029_01 <b>F3</b>	<b>RS-232 Interface No Parity - Default</b>  M0030_01 <b>F4</b>





















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<b>Continuous Scan Both Imagers</b>  M0127_02 <b>A1</b>	<b>Continuous Scan Off - Default</b>  M0126_03 <b>A2</b>	<b>Motion Detection</b> <ul style="list-style-type: none"> <li>To disable all motion detection, you must scan 'Disable Motion Detection with Stand Detection' (B2) and 'Motion Detection Scanning Off' (D1)</li> <li>To enable motion detection with stand detection after all motion detection has been turned off, scan any 'Motion Detection On' (C1-C4) code, and scan 'Enable Motion Detection with Stand Detection' (B1)</li> <li>To enable motion detection in readers that do not feature stand detection, scan the 'Motion Detection On' setting you prefer (C1-C4)</li> </ul>	
<b>Enable Motion Detection with Stand Detection, Start Delay 0 - Default</b>  M0216_02 <b>B1</b>	<b>Disable Motion Detection with Stand Detection</b>  M0217_02 <b>B2</b>		
<b>Motion Detection On, Start Delay 0</b>  M0161_03 <b>C1</b>	<b>Motion Detection On, Start Delay 500ms</b>  M0162_03 <b>C2</b>	<b>Motion Detection On, Start Delay 0, Dark Environment</b>  M0163_03 <b>C3</b>	<b>Motion Detection On, Start Delay 500ms, Dark Environment</b>  M0164_03 <b>C4</b>
<b>Motion Detection Scanning Off</b>  M0129_08 <b>D1</b>	<b>Aztec On - Default</b>  M0033_01 <b>D2</b>	<b>Aztec Off</b>  M0034_01 <b>D3</b>	<b>Aztec Inverse On</b>  M0035_01 <b>D4</b>
<b>Aztec Inverse &amp; Normal</b>  M0036_01 <b>E1</b>	<b>Codabar On - Default</b>  M0037_01 <b>E2</b>	<b>Codabar Off</b>  M0038_01 <b>E3</b>	<b>Codablock F On</b>  M0039_01 <b>E4</b>
<b>Codablock F Off - Default</b>  M0040_01 <b>F1</b>	<b>Code 11 On</b>  M0042_01 <b>F2</b>	<b>Code 11 Off - Default</b>  M0041_01 <b>F3</b>	<b>Code 11 - Checksum 1 digit</b>  M0043_01 <b>F4</b>

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**NOTE:** The configuration change will take effect immediately and saved to memory.

<b>Code 11 - Checksum 2 digit &amp; Strip from Result</b>   M0044_01  <b>A1</b>	<b>Code 11 - Checksum 1 digit &amp; Strip from Result</b>   M0045_01  <b>A2</b>	<b>Code 39 On - Default</b>   M0046_01  <b>A3</b>	<b>Code 39 Off</b>   M0047_01  <b>A4</b>
<b>Code 39 Enable Checksum</b>   M0048_01  <b>B1</b>	<b>Code 39 Disable Checksum - Default</b>   M0049_01  <b>B2</b>	<b>Code 39 Enable Checksum and Strip</b>   M0050_01  <b>B3</b>	<b>Code 39 Extended Full ASCII On</b>   M0051_01  <b>B4</b>
<b>Code 39 Extended Full ASCII Off - Default</b>   M0052_01  <b>C1</b>	<b>Code 39 Short Margin On - Default</b>   M0053_01  <b>C2</b>	<b>Code 39 Short Margin Off</b>   M0054_01  <b>C3</b>	<b>Intentionally Left Blank</b>     <b>C4</b>
<b>Code 39 Trioptic On</b>   M0056_01  <b>D1</b>	<b>Code 39 Trioptic Off</b>   M0055_01  <b>D2</b>	<b>Code 93 On - Default</b>   M0059_01  <b>D3</b>	<b>Code 93 Off</b>   M0060_01  <b>D4</b>
<b>Code 128 On - Default</b>   M0061_01  <b>E1</b>	<b>Code 128 Off</b>   M0062_01  <b>E2</b>	<b>Code 128 Short Margin On - Default</b>   M0063_01  <b>E3</b>	<b>Code 128 Short Margin Off</b>   M0064_01  <b>E4</b>
<b>Intentionally Left Blank</b>     <b>F1</b>	<b>Intentionally Left Blank</b>     <b>F2</b>	<b>Composite On</b>   M0065_01  <b>F3</b>	<b>Composite Off - Default</b>   M0066_01  <b>F4</b>




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**NOTE:** The configuration change will take effect immediately and saved to memory.

<b>Data Matrix Rectangle On</b>  M0067_01 <b>A1</b>	<b>Data Matrix Rectangle Off - Default</b>  M0068_01 <b>A2</b>	<b>Data Matrix Inverse On</b>  M0069_01 <b>A3</b>	<b>Data Matrix Inverse Off - Default</b>  M0070_01 <b>A4</b>
<b>Intentionally Left Blank</b>  <b>B1</b>	<b>Intentionally Left Blank</b>  <b>B2</b>	<b>Enable improved reading capability for hard to decode Data Matrix symbols</b>  M0071_01 <b>B3</b>	<b>Disable improved reading capability for hard to decode Data Matrix symbols - Default</b>  M0072_01 <b>B4</b>
<b>GS1 DataBar Limited On</b>  M0112_01 <b>C1</b>	<b>GS1 DataBar 14/ Truncated 14 On</b>  M0113_01 <b>C2</b>	<b>GS1 DataBar 14 Stacked On</b>  M0114_01 <b>C3</b>	<b>GS1 DataBar Expanded On</b>  M0115_01 <b>C4</b>
<b>All GS1 DataBar On - Default</b>  M0116_01 <b>D1</b>	<b>All GS1 DataBar Off</b>  M0117_01 <b>D2</b>	<b>Intentionally Left Blank</b>  <b>D3</b>	<b>Intentionally Left Blank</b>  <b>D4</b>
<b>Int 2 of 5 On - Default</b>  M0073_01 <b>E1</b>	<b>Int 2 of 5 Off</b>  M0074_01 <b>E2</b>	<b>Int 2 of 5 2 Digits On</b>  M0075_01 <b>E3</b>	<b>Int 2 of 5 2 Digits Off - Default</b>  M0076_01 <b>E4</b>
<b>Int 2 of 5 4 Digits On</b>  M0077_01 <b>F1</b>	<b>Int 2 of 5 4 Digits Off</b>  M0078_01 <b>F2</b>	<b>Int 2 of 5 with Control Character Stripped</b>  M0151_01 <b>F3</b>	<b>Intentionally Left Blank</b>  <b>F4</b>










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**NOTE:** The configuration change will take effect immediately and saved to memory.

<b>Maxicode On</b>  M0079_01 <b>A1</b>	<b>Maxicode Off - Default</b>  M0080_01 <b>A2</b>	<b>Matrix 2 of 5 On</b>  M0081_01 <b>A3</b>	<b>Matrix 2 of 5 Off Default</b>  M0082_01 <b>A4</b>
<b>Micro PDF417 On</b>  M0083_01 <b>B1</b>	<b>Micro PDF417 Off - Default</b>  M0084_01 <b>B2</b>	<b>MSI Plessey On - Default</b>  M0085_01 <b>B3</b>	<b>MSI Plessey Off</b>  M0086_01 <b>B4</b>
<b>Intentionally Left Blank</b>  <b>C1</b>	<b>Intentionally Left Blank</b>  <b>C2</b>	<b>Macro PDF 417 On</b>  M0093_01 <b>C3</b>	<b>Macro PDF 417 Off - Default</b>  M0094_01 <b>C4</b>
<b>NEC 2 of 5 On - Default</b>  M0087_01 <b>D1</b>	<b>NEC 2 of 5 Off</b>  M0088_01 <b>D2</b>	<b>Disable OCR - Default</b>  M0089_01 <b>D3</b>	<b>Enable OCR</b>  M0090_01 <b>D4</b>
<b>PDF 417 On - Default</b>  M0091_01 <b>E1</b>	<b>PDF 417 Off</b>  M0092_01 <b>E2</b>	<b>Intentionally Left Blank</b>  <b>E3</b>	<b>Intentionally Left Blank</b>  <b>E4</b>
<b>Postal Codes Australian Post On</b>  M0095_01 <b>F1</b>	<b>Postal Codes Japan Post On</b>  M0096_01 <b>F2</b>	<b>Postal Codes KIX On</b>  M0097_02 <b>F3</b>	<b>Postal Codes Postnet On</b>  M0099_01 <b>F4</b>


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<b>Postal Codes Planet On</b>  M0098_01 <b>A1</b>	<b>Postal Codes Planet &amp; Postnet On</b>  M0100_01 <b>A2</b>	<b>Postal Codes Royal Mail On</b>  M0101_01 <b>A3</b>	<b>4-State CB On (Intelligent Mail)</b>  M0103_01 <b>A4</b>
<b>Postal Codes All Postal Codes Off - Default</b>  M0102_01 <b>B1</b>	<b>Intentionally Left Blank</b>  <b>B2</b>	<b>Intentionally Left Blank</b>  <b>B3</b>	<b>QR Code On - Default</b>  M0104_01 <b>B4</b>
<b>QR Code Off</b>  M0105_01 <b>C1</b>	<b>QR Code Enable Checksum</b>  M0106_01 <b>C2</b>	<b>QR Code Disable Checksum</b>  M0107_01 <b>C3</b>	<b>QR Code Inverse and Standard On</b>  M0109_01 <b>C4</b>
<b>QR Code Inverse On</b>  M0108_01 <b>D1</b>	<b>Enable All QR Code On (includes Micro QR)</b>  M0110_01 <b>D2</b>	<b>Inverse and Micro QR Code On</b>  M0111_01 <b>D3</b>	<b>Intentionally Left Blank</b>  <b>D4</b>
<b>Telepen On - Default</b>  M0118_01 <b>E1</b>	<b>Telepen Off</b>  M0119_01 <b>E2</b>	<b>UPC On - Default</b>  M0120_01 <b>E3</b>	<b>UPC Off</b>  M0121_01 <b>E4</b>
<b>UPC Short Margin Enabled - Default</b>  M0122_01 <b>F1</b>	<b>UPC Short Margin Disabled</b>  M0123_01 <b>F2</b>	<b>UPC Extension On</b>  M0124_01 <b>F3</b>	<b>UPC Extension Off - Default</b>  M0125_01 <b>F4</b>










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<p><b>US English Keyboard Mapping - Default No Leading 0</b></p>  <p>M0008_02</p> <p><b>B1</b></p>	<p><b>US English Keyboard Mapping - Leading 0</b></p>  <p>M0007_02</p> <p><b>B2</b></p>	<p><b>French Keyboard</b></p>  <p>M0010_01</p> <p><b>B3</b></p>	<p><b>German Keyboard</b></p>  <p>M0011_01</p> <p><b>B4</b></p>
<p><b>Japanese Keyboard</b></p>  <p>M0012_01</p> <p><b>C1</b></p>	<p><b>Control Characters for Non Printable ASCII</b></p>  <p>M0009_02</p> <p><b>C2</b></p>	<p><b>Universal Keyboard Mapping</b></p>  <p>M0013_01</p> <p><b>C3</b></p>	<p><b>Enable Alternative OS (Windows CE/MAC/Unix/Linux)</b></p>  <p>M0015_02</p> <p><b>C4</b></p>
<p><b>Disable Alternative OS</b></p>  <p>M0016_02</p> <p><b>D1</b></p>	<p><b>Mirroring On</b></p>  <p>M0152_01</p> <p><b>D2</b></p>	<p><b>Mirroring Off - Default</b></p>  <p>M0153_01</p> <p><b>D3</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>D4</b></p>
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<p><b>Prefix - Tab (USB Keyboard Mode ONLY)</b></p>  <p>M0132_02</p> <p><b>F1</b></p>	<p><b>Prefix - Tab (RS-232 Mode ONLY)</b></p>  <p>M0133_02</p> <p><b>F2</b></p>	<p><b>Prefix - Erase/None - Default</b></p>  <p>M0134_02</p> <p><b>F3</b></p>	<p><b>Prefix - CRLF RS232 Only</b></p>  <p>M0135_02</p> <p><b>F4</b></p>








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**NOTE:** The configuration change will take effect immediately and saved to memory.

<p><b>Intentionally Left Blank</b></p> <p><b>A1</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>A2</b></p>	<p><b>Suffix - Carriage Return RS232 Only</b></p>  <p>M0136_02</p> <p><b>A3</b></p>	<p><b>Suffix - Comma</b></p>  <p>M0137_02</p> <p><b>A4</b></p>
<p><b>Suffix - Line Feed RS232 Only</b></p>  <p>M0138_02</p> <p><b>B1</b></p>	<p><b>Suffix - Carriage Return Line Feed RS232 Only</b></p>  <p>M0139_02</p> <p><b>B2</b></p>	<p><b>Suffix - Space</b></p>  <p>M0140_02</p> <p><b>B3</b></p>	<p><b>Suffix - Enter Keyboard Only</b></p>  <p>M0141_02</p> <p><b>B4</b></p>
<p><b>Suffix - Tab (USB Keyboard Mode Only)</b></p>  <p>M0142_02</p> <p><b>C1</b></p>	<p><b>Suffix - Tab (RS-232 Mode Only)</b></p>  <p>M0143_02</p> <p><b>C2</b></p>	<p><b>Suffix - Erase/None - Default</b></p>  <p>M0144_02</p> <p><b>C3</b></p>	<p><b>Erase All Prefix &amp; Suffix Data</b></p>  <p>M0145_02</p> <p><b>C4</b></p>
<p><b>Reader Text Commands On</b></p>  <p>M0146_01</p> <p><b>D1</b></p>	<p><b>Reader Text Commands Off - Default</b></p>  <p>M0147_01</p> <p><b>D2</b></p>	<p><b>Clear All Stored Data and Images</b></p>  <p>M0071_01</p> <p><b>D3</b></p>	<p><b>D4</b></p>
<b>E1</b>	<b>E2</b>	<b>E3</b>	<b>E4</b>
<b>F1</b>	<b>F2</b>	<b>F3</b>	<b>F4</b>

# 2D Scan Engine Configuration Guide

**NOTE:** The configuration change will take effect immediately and saved to memory.

<p><b>Duplicate Scan Disable</b></p>  <p>M0191_01</p> <p><b>A1</b></p>	<p><b>1 sec Duplicate Scan Delay</b></p>  <p>M0192_01</p> <p><b>A2</b></p>	<p><b>2 sec Duplicate Scan Delay</b></p>  <p>M0193_01</p> <p><b>A3</b></p>	<p><b>3 sec Duplicate Scan Delay</b></p>  <p>M0194_01</p> <p><b>A4</b></p>
<p><b>Default Trigger Delay</b></p>  <p>M0195_01</p> <p><b>B1</b></p>	<p><b>Targeting Off</b></p>  <p>M0196_01</p> <p><b>B2</b></p>	<p><b>Targeting On - Default</b></p>  <p>M0197_01</p> <p><b>B3</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>B4</b></p>
<p><b>Intentionally Left Blank</b></p> <p><b>C1</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>C2</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>C3</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>C4</b></p>
<p><b>Intentionally Left Blank</b></p> <p><b>D1</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>D2</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>D3</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>D4</b></p>
<p><b>Intentionally Left Blank</b></p> <p><b>E1</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>E2</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>E3</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>E4</b></p>
<p><b>Intentionally Left Blank</b></p> <p><b>F1</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>F2</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>F3</b></p>	<p><b>Intentionally Left Blank</b></p> <p><b>F4</b></p>