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Imager Operation

Presentation and Trigger† Modes

There are four configurable modes for scanning: the presentation mode, the multi-try trigger mode, the continuous trigger mode, and the single-trigger mode. These modes can be configured separately for in-stand and out-of-stand imager operation†.

In-Stand‡

* Presentation Mode

In-Stand

Multi-Try Trigger Mode

In-Stand

Continuous Trigger Mode

In-Stand

Single Trigger Mode

In-Stand

* Factory default configuration.
† The term trigger and button are synonymous.
‡ In-Stand and Out-of-Stand references are not applicable for all products.
**Out-of-Stand‡**

- Presentation Mode Out-of-Stand

  ![Barcode](image1.png)

- Multi-Try Trigger Mode Out-of-Stand

  ![Barcode](image2.png)

**Continuous Trigger Mode Out-of-Stand**

  ![Barcode](image3.png)

**Single Trigger Mode Out-of-Stand**

  ![Barcode](image4.png)

**In-Stand/Out-of-Stand Mode Match**

Set In-Stand Mode to Match Out-of-Stand Mode

  ![Barcode](image5.png)

* Factory default configuration for the MS1690, MS1890, and the MS1633.

* Factory default configuration for the IS1650.

‡ In-Stand and Out-of-Stand references are not applicable for all products.
* Presentation Mode
  Immediately After Button† Release

The imager immediately reverts to presentation mode when the button is released.

Presentation Mode
1 second After Button Release

The imager reverts to presentation mode 1 second after the button is released.

Presentation Mode
5 seconds After Button Release

The imager reverts to presentation mode when 5 seconds after the button is released.

* Factory default configuration.
† The term trigger and button are synonymous.
◊ This feature is only supported in the MS7580 Genesis™.
* Enable Trigger Press Timeout In Presentation Mode

* Disable Trigger Press Timeout In Presentation Mode

* Factory default configuration.

◊ This feature is only supported in the Focus® product series (i.e., IS1650, MS1890, MS1633, and the MS1690).
**Pass-Through Settings**

* Enable  
Pass-Through Scanning  
In Presentation Mode

![Barcode]

```
* 1  2  7  0  1  5
```

**Disable**  
Pass-Through Settings  
In Presentation Mode

![Barcode]

```
* 1  2  7  0  0  5
```

Enable 300 milliseconds  
Pass-Through Timeout

![Barcode]

```
* 8  4  3  9  3  0  0
```

Enable 100 milliseconds  
Pass-Through Timeout

![Barcode]

```
* 8  4  3  9  1  0  0
```

* Factory default configuration for the MS7580.
† The term trigger and button are synonymous.
◇ This feature is only supported in the MS7580 Genesis.
○ Contact a customer service representative for information on additional pass-through timeout values.
Omnidirectional and/or Linear Imager Modes

The area imager can be configured to operate as an omnidirectional imager, or a linear imager, or a combination of both. Trigger† and presentation operations can be configured separately for omnidirectional and linear scan modes.

- When a unit is configured to operate as an omnidirectional imager, all 1D and 2D bar codes are scanned omnidirectionally. The only exceptions are Code 128 scanner configuration labels, which must be linearly aligned for successful scanning.

Note: The IS4900 area-imaging engines do not require linear alignment of Code 128 scanner configuration labels. The bar code should be placed near the center of the engine's field of view indicated by the targeting dot.

- When a unit is configured to operate as a linear imager, 1D bar codes must be linearly aligned for successful scanning. In linear configuration 2D bar codes cannot be scanned.

- When a unit is configured to operate as both a linear and omnidirectional imager, 1D bar codes have to be linearly aligned for successful scanning while 2D bar codes are scanned omnidirectionally.

By default, the Focus product series◊ is configured for omnidirectional scanning for trigger and presentation operations. By default, the MS7580 is configured to omnidirectional scanning for presentation and pass-through operations and with 1D linear scanning/2D omnidirectional scanning for button† operations.

† The term trigger and button are synonymous.
◊ The Focus product series includes the IS1650, MS1890, MS1633, and the MS1690.
Enable 1D Linear Only in Trigger Operations

Enable Linear Only in Presentation Operations

Enable 1D Linear Only in Presentation Operations
**Aiming and Illumination**

Trigger and presentation operations can be configured separately to use the imager’s linear illumination as an aiming instrument.

* Enable Aiming in * Trigger Operations

![](Barcode1)

* Disable Aiming in * Trigger Operations

![](Barcode2)

* Enable Aiming in * Presentation Operations

![](Barcode3)

* Disable Aiming in * Presentation Operations

![](Barcode4)

* Enable FirstFlash®

![](Barcode5)

* Disable FirstFlash®

![](Barcode6)

* Factory default configuration.
* Enable Auto Gain

```
* 1 2 5 1 0 1
```

Disable Auto Gain

```
* 1 2 5 1 1 1
```

* Enable Illumination Group 1

```
* 1 2 4 0 0 2
```

Disable Illumination Group 1

```
* 1 2 4 0 1 2
```

* Enable Illumination Group 2

```
* 1 2 4 0 0 3
```

Disable Illumination Group 2

```
* 1 2 4 0 1 3
```

* Factory default configuration.

◇ This feature is only supported in the Focus product series (i.e., IS1650, MS1890, MS1633, and the MS1690).
Data Output

* Enable Data Output

* Disable Data Output

* Factory default configuration.
Character Suppression

Enable the Suppression of 1 Character

1. Scan the Enter/Exit Configuration Mode bar code, on page 39.
2. Scan the Enable the Suppression of 1 Character bar code.
3. Scan the Character 1 bar code (below left).
4. Scan the three code bytes that represent the character to be suppressed, on page 12.
5. Scan the Enter/Exit Configuration Mode bar code, on page 39.

Enable the Suppression of 2 Characters

1. Scan the Enter/Exit Configuration Mode bar code, on page 39.
2. Scan the Enable the Suppression of 2 Character bar code above.
3. Scan the Character 1 bar code (below left).
4. Scan the three code bytes, on page 12, that represent the 1st character to be suppressed.
5. Scan the Character 2 bar code (below right).
6. Scan the three code bytes, on page 12, that represent the 2nd character to be suppressed.
7. Scan the Enter/Exit Configuration Mode bar code, on page 39.

* Factory default configuration.
# Code Bytes 0 – 9

**Notes:** For additional information on Code Bytes, refer to the *Code Bytes Usage* section of the MetroSelect Configuration Guide (PN 00-02544).

<table>
<thead>
<tr>
<th>Code Byte 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code Byte 1</td>
</tr>
<tr>
<td>Code Byte 2</td>
</tr>
<tr>
<td>Code Byte 3</td>
</tr>
<tr>
<td>Code Byte 4</td>
</tr>
<tr>
<td>Code Byte 5</td>
</tr>
<tr>
<td>Code Byte 6</td>
</tr>
<tr>
<td>Code Byte 7</td>
</tr>
<tr>
<td>Code Byte 8</td>
</tr>
<tr>
<td>Code Byte 9</td>
</tr>
</tbody>
</table>
**Same Symbol Timeouts**

Retain Same Symbol Timeout on Trigger

* Reset Same Symbol Timeout on Trigger

The same-symbol timeout is not restarted when the trigger is pulled.

The same-symbol timeout is restarted when the trigger is pulled.

**LED Options**

* Normal Blue LED Intensity

Low Blue LED Intensity

* Normal White LED Intensity

Low White LED Intensity

* Factory default configuration.

◊ This feature is only supported in the MS7580 Genesis.
**Imager Operation – MS1633**

**Power Save Modes**

**Enable**

- Trigger Power-Save

When enabled, the MS1633 will enter sleep mode after the trigger is held for 10 seconds.

**Disable**

- Trigger Power-Save

* Factory default configuration.

**Enable**

- IR Power-Save

When enabled, the MS1633 will enter sleep mode after the IR has been activated 5 times without a successful decode.

**Disable**

- IR Power-Save

†† **These features are not for use with the MS1690, MS1890, or the IS1650.**
**RangeGate® Mode**

Enable
RangeGate

When enabled, the MS1633 will store scanned bar codes into non-volatile memory if the wireless connection has been interrupted.

*Note*: RangeGate and Inventory Mode are mutually exclusive. If both are enabled, Inventory Mode takes priority.

RangeGate Delay = 1 sec.

The MS1633 will pause 1 sec. between transmitting individual bar codes in RangeGate mode.

RangeGate Delay = 500 ms

The MS1633 will pause 500 ms. between transmitting individual bar codes in RangeGate mode.

RangeGate Delay = 0 sec.

The MS1633 will not pause between transmitting individual bar codes in RangeGate mode.

†† These features are not for use with the MS1690, MS1890, or the IS1650.
Firmware Version and Address††

Transmit the Firmware Version of the Imager with Bluetooth® Wireless Technology

Transmit the Address of the Imager with Bluetooth Wireless Technology

†† These features are not for use with the MS1690, MS1890 or the IS1650.
**Inventory Mode**

In Inventory mode, there is a quantity field associated with each bar code. When an item’s bar code is scanned, the MS1633 automatically stores the bar code data in its non-volatile memory with a quantity field set to 1. The quantity field can then be modified using the quantity bar codes on page 20. The bar code data is not automatically transmitted to the host. To transmit the stored data, the Transmit All Records bar code (below) must be scanned.

Enable Inventory Mode

```
3 1 2 3 9 1 0
```

* Disable Inventory Mode

```
3 1 2 3 9 0 0
```

**Note:** RangeGate and Inventory Mode are mutually exclusive. If both are enabled, Inventory mode takes priority.

Transmit Quantity Field

```
3 1 2 3 9 1 5
```

The item’s bar code data will be stored and transmitted once with a user selectable numerical quantity added to the end of the data string. *See page 19 for information on quantity input.* If a quantity is not entered, the quantity will default to 1.

Transmit All Records

```
3 9 9 8 0 5 0
```

Transmits all stored data records.

† † This feature is not for use with the MS1690, MS1890, or the IS1650.
The quantity bar codes on page 20 enable the user to enter a quantity for the last item scanned. The item’s bar code data will be stored and transmitted as many times as the quantity indicates. If the Transmit Quantity Field feature (on page 18) has been enabled then the bar code data will be stored and transmitted once with a numerical quantity added to the end of the data string.

If a quantity is not entered, a value of 1 will be entered as the default. The quantity maximum value is 9999. Quantity digits are shifted from right to left so if a 5th digit is scanned the 1st digit scanned will be discarded and the 2nd, 3rd and 4th digits will be moved to the left to accommodate the new digit. For example, if the Quantity 5 bar code is scanned after the quantity has been set to 1234 then the 1 will be dropped and the quantity will become 2345.

**Examples**

**To add a quantity of 5**
1. Scan the item’s bar code
2. Scan the Quantity 5 bar code (on page 20)

**To add a quantity of 1,500**
1. Scan the item’s bar code
2. Scan the Quantity 1 bar code (on page 20)
3. Scan the Quantity 5 bar code (on page 20)
4. Scan the Quantity 0 bar code (on page 20)
5. Scan the Quantity 0 bar code (on page 20)

To correct an incorrect quantity using the quantity codes, scan the Quantity 0 bar code to replace the incorrect digits then scan the correct Quantity bar codes located on page 20.

**Example**

**To change a quantity of 103 to 10 using the quantity codes**
1. Scan the Quantity 0 bar code to change the quantity to 1030
2. Scan the Quantity 0 bar code to change the quantity to 0300
3. Scan the Quantity 1 bar code to change the quantity to 3001
4. Scan the Quantity 0 bar code to change the quantity to 0010

The Delete Last Record bar code, on page 22, can also be used to delete the incorrect record and quantity. Just re-scan the bar code with the correct quantity after using the Delete Last Record bar code.
Quantity Codes

†† This feature is not for use with the MS1690, MS1890, or the IS1650.
Transmit Entry Counter

Optional field transmitted with the bar code data that is a count of the number of transmissions used to transmit the entire buffer.

Transmit Number of Records

Will transmit the number of records and the number of bar codes currently stored as a 5-digit number separated by a space.

Transmit Inventory Records LIFO

Data is transmitted on a last-in, first-out basis.

Transmit Inventory Records FIFO

Data is transmitted on a first-in, first out basis.

†† These features are not for use with the MS1690, MS1890, or the IS1650.
Enable Inventory Beep††

When enabled MS1633 will beep after transmitting each inventory record.

* Disable Inventory Beep

Delete Last Record††

When scanned, this bar code will delete the last bar code stored.

Clear Inventory Records††

When scanned, this bar code will clear all stored bar code data in memory.

†† These features are not for use with the MS1690, MS1890, or the IS1650.
**Code Types and Decode Rules**

**Data Matrix**

Enable Normal Color Data Matrix Decoding

![Barcode](barcode1.png)

Enable Inverse Color Data Matrix Decoding

![Barcode](barcode2.png)

Enable Normal and Inverse Color Data Matrix Decoding

![Barcode](barcode3.png)

* Disable Data Matrix Decoder

![Barcode](barcode4.png)

Enable Rectangular Data Matrix Symbol Decoding

![Barcode](barcode5.png)

* Disable Rectangular Data Matrix Symbol Decoding

![Barcode](barcode6.png)

* Factory default configuration.
Enable Low-Contrast Data Matrix Decoding

Improves decoding of low-contrast Data Matrix symbols.

* Disable Low-Contrast Data Matrix Decoding

Enable Data Matrix Non-Square Modules

Improves decoding of Data Matrix symbols when individual modules in the symbol are non-square.

* Disable Data Matrix Non-Square Modules

Enable Data Matrix Shifted Tiles

Improves decoding of Data Matrix symbols when the upper tiles in the symbol are shifted in the symbol relative to the bottom tiles.

* Disable Data Matrix Shifted Tiles

* Factory default configuration

† Enabling these options will increase decoding time for all bar codes.
The following bar codes improve decoding of Data Matrix symbols when the length of a symbol size is small. To disable either of these options scan the Enable Data Matrix Normal Size bar code above.

Enable Data Matrix, Small Size

Enable Data Matrix, Very Small Size

* Factory default configuration.
† Enabling these options will increase decoding time for all bar codes.
**QR Code**

Enable Normal Video QR Code

Enable Inverse Video QR Code

Enable Normal and Inverse QR Code

* Disable QR Code

* Factory default configuration.

**MaxiCode**

Enable MaxiCode

* Disable MaxiCode

* Factory default configuration.
Aztec

Enable Normal Video Aztec Decoding

* Disable Normal Video Aztec Decoding

³100610
³100600

³100611
³100601

Enable Inverse Video Aztec Decoding

* Disable Inverse Video Aztec Decoding

* Factory default configuration
When this feature is enabled, Aztec bar codes with a structured append header will be stored in the imager’s memory buffer. The imager will transmit the concatenated message once every component of the structured append bar code has been read. Up to 16 components can be stored.

If this feature is disabled, Aztec bar codes with structured append header will be read as normal Aztec bar codes. However, in this case, the structured append header will be sent as part of the bar code data.

Notes: CodeSelect® and structured append features cannot be used concurrently. If both CodeSelect and structured append are enabled, CodeSelect feature will not work.

The CodeSelect timeout setting determines how much time will be allowed between individual components of the same bar code (similar to CodeSelect operation).

By default, the imager will emit an intermediate beep when each component is scanned. When only one scan buffer is enabled, the user will be required to release the trigger after reading each bar code component.

Note: If the intermediate beep is disabled and the number of scan buffers is increased (compare buffers in MetroSet2) – all components of a structured append bar code can be read with a single trigger activation, and only one audible beep will be produced, as if a regular bar code was scanned.
## Postal

<table>
<thead>
<tr>
<th>Enable</th>
<th>* Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Australia Post</strong></td>
<td><strong>Australia Post</strong></td>
</tr>
<tr>
<td><img src="image1" alt="Barcode" /></td>
<td><img src="image2" alt="Barcode" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enable</th>
<th>* Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Japan Post</strong></td>
<td><strong>Japan Post</strong></td>
</tr>
<tr>
<td><img src="image3" alt="Barcode" /></td>
<td><img src="image4" alt="Barcode" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enable</th>
<th>* Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KIX Code</strong></td>
<td><strong>KIX Code</strong></td>
</tr>
<tr>
<td><img src="image5" alt="Barcode" /></td>
<td><img src="image6" alt="Barcode" /></td>
</tr>
</tbody>
</table>

* Factory default configuration.
Enable PLANET Code

* Disable PLANET Code

Enable POSTNET Code

* Disable POSTNET Code

Enable B & B’ Fielded POSTNET

* Disable B & B’ Fielded POSTNET

* Factory default configuration
Enable UPU Decoding

* Disable UPU Decoding

Enable Royal Mail 4 Code

* Disable Royal Mail 4 Code

Enable Zero-FCC Australia Post

* Disable Zero-FCC Australia Post

* Factory default configuration.
**Codablock Options**

Enable Codablock A

```
* 1 2 6 4 1 0
```

* Disable Codablock A

```
* 1 2 6 4 0 0
```

Enable Codablock F

```
* 1 2 6 4 1 1
```

* Disable Codablock F

```
* 1 2 6 4 0 1
```

**PDF Options**

Enable Transmit \ as \ 

```
* 1 1 5 1 1 3
```

* Factory default configuration.
RS232

Software Handshaking

Enable IV Handshaking

DISABLE IV Handshaking

An "IV" response from the host indicates reception of imager data.

Multifunctional USB/IBM® Interface†

Dual Interface Defaults†

† This feature is not for use with the MS1633.
**Interfaces**

**Additional Interfaces**†

Enable Beeper ON/OFF Commands

| 35 1 2 5 2 1 1 |

Enables beeper on/off commands with internal USB and IBM interfaces.

* Disable Beeper ON/OFF Commands

| 35 1 2 5 2 0 1 |

3rd Generation IBM 46xx Defaults

| 35 1 9 9 9 5 2 |

First, scan the 3rd Generation IBM 46xx Default bar code. Then, scan the IBM Reserved Code #2.

IBM Reserved Code #2

| 35 1 3 1 7 2 1 0 |

First, scan the 3rd Generation IBM 46xx Default bar code. Then, scan the IBM Reserve code #2.

* Factory Default Configuration

† These features are not for use with the MS1633.
**IBM 46xx-SIOC RS485 Interface**

Send 30H for Last Block
Label Identifier 4680

* Send 00 for Last Block
Label Identifier 4680

Note: Feature is for PDF codes only.

**IBM-OEM USB Interface**

Send 30H for Last Block
Label Identifier USB

* Send 00 for Last Block
Label Identifier USB

Note: Feature is for PDF codes only.

**Full Speed USB Keyboard Interface**

Enable Full Speed USB
Keyboard Interface Defaults

* Factory Default Configuration

† These features are **not** for use with the MS1633.
MS7580 Genesis Specific

Load RS232 Configuration Settings

Load USB Configuration Settings

Load Keyboard Wedge Configuration Settings

Load RS485 Configuration Settings

Recall Configuration for Currently Connected Interface

◊ This feature is only supported in the MS7580 Genesis.
Apply Settings to All Interfaces

Apply Settings to the Current Interface

Apply Settings to RS232 Interface

Apply Settings to USB Interface

Apply Settings to Keyboard Wedge

Apply Settings to RS485 Interface

◊ This feature is only supported in the MS7580 Genesis.
Enter/Exit Configuration Mode

Enter Exit Configuration Mode

9 9 9 9 9 9
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