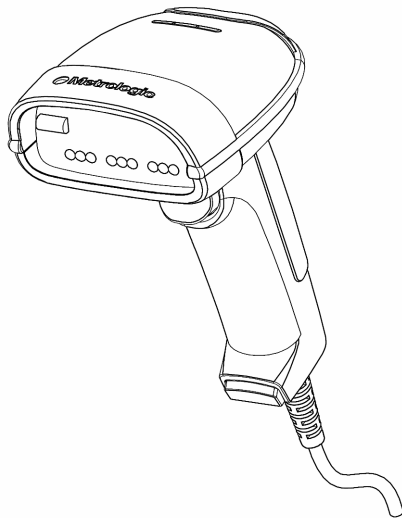




METROLOGIC INSTRUMENTS, INC.
MS1690 Focus™
Area Imaging Bar Code Scanner
Supplemental Configuration Guide



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Presentation and Trigger Modes

The MS1690 has 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 scanner operation.

Presentation Mode
Out-of-Stand



* Presentation Mode
In-Stand



* Multi-Try Trigger Mode
Out-of-Stand



Multi-Try Trigger Mode
In-Stand



Continuous Trigger Mode
Out-of-Stand



Continuous Trigger Mode
In-Stand



** Factory Default Configuration*

Presentation and Trigger Modes

Single Trigger Mode
Out-of-Stand



Single Trigger Mode
In-Stand



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



** Factory Default Configuration*

Omnidirectional and/or Linear Scanner Modes

The MS1690 can be configured to operate as an omnidirectional scanner, or a linear scanner, or a combination of both. The scanner can be configured to these modes separately for trigger and presentation operations.

When configured to operate as an omnidirectional scanner, all 1D and 2D barcodes are scanned omnidirectionally (except Code 128 scanner configuration labels, which have to be linearly aligned for successful scanning).

When configured to operate as a linear scanner, the 1D barcodes have to be linearly aligned for successful scanning while the 2D barcodes cannot be scanned.

When configured to operate as both the linear and omnidirectional scanner, the 1D barcodes have to be linearly aligned for successful scanning while the 2D barcodes are scanned omnidirectionally.

By default, the scanner is configured to omnidirectional scanning for trigger and presentation operations.

Enable Linear Only
in Trigger Operations



Disable Linear Only
in Trigger Operations



Enable 1D Linear Only
in Trigger Operations



Disable 1D Linear Only
in Trigger Operations



Omnidirectional and/or Linear Scanner Modes

Enable Linear Only
in Presentation Operations



Disable Linear Only
in Presentation Operations



Enable 1D Linear Only
in Presentation Operations



Disable 1D Linear Only
in Presentation Operations



Linear Illumination Aiming

The MS1690 can be configured to use the linear illumination as an aiming means, separately for trigger and presentation operations.

* Enable Aiming in
Trigger Operations



Disable Aiming in
Trigger Operations



* Enable Aiming in
Presentation Operations



Disable Aiming in
Presentation Operations



Data Output

The MS1690 can be configured to have the data output disabled.

* Enable Data Output



Disable Data Output



* *Factory Default Configuration*

Character Suppression

Enable the
Suppression of 1 Character



* Disable the
Suppression of 1 Character



To suppress 1 character:

1. Scan the *Enter/Exit Configuration Mode* bar code, on page 20.
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 7.
5. Scan the *Enter/Exit Configuration Mode* bar code, on page 20.

Enable the
Suppression of 2 Characters



* Disable the
Suppression of 2 Characters



To suppress 2 characters:

1. Scan the *Enter/Exit Configuration Mode* bar code, on page 20.
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 7, 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 7, that represent the 2nd character to be suppressed.
7. Scan the *Enter/Exit Configuration Mode* bar code, on page 20.


Character 1



Character 2



Character Suppression (Code Bytes 0 – 9)



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



Code Byte 0



Code Byte 1



Code Byte 2



Code Byte 3



Code Byte 4



Code Byte 5



Code Byte 6



Code Byte 7



Code Byte 8



Code Byte 9

Same Symbol Timeouts

Retain Same Symbol
Timeout on Trigger



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

* Reset Same Symbol
Timeout on Trigger



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

** Factory Default Configuration*

CODE TYPES AND DECODE RULES

Data Matrix

Enable Normal
Color Data Matrix Decoding



Enable Inverse
Color Data Matrix Decoding



Enable Normal **and** Inverse
Color Data Matrix Decoding



* Disable
Data Matrix Decoder



Enable Rectangular
Data Matrix Symbol
Decoding



* Disable Rectangular
Data Matrix Symbol
Decoding



** Factory Default Configuration*

QR Code

Enable Normal
Video QR Code



Enable Inverse
Video QR Code



Enable Normal **and** Inverse
QR Code

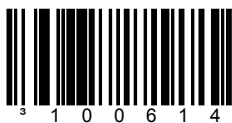


* Disable QR Code

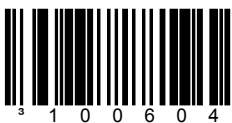


MaxiCode

Enable MaxiCode



* Disable MaxiCode



** Factory Default Configuration*

CODE TYPES AND DECODE RULES

Aztec

Enable Normal
Video Aztec Decoding



* Disable Normal
Video Aztec Decoding



Enable Inverse
Video Aztec Decoding



* Disable Inverse
Video Aztec Decoding



Postal

Enable
Australia Post



* Disable
Australia Post



** Factory Default Configuration*

CODE TYPES AND DECODE RULES

Postal

Enable Japan Post



* Disable Japan Post



Enable KIX Code



* Disable KIX Code



Enable
PLANET Code



* Disable
PLANET Code



** Factory Default Configuration*

CODE TYPES AND DECODE RULES

Postal

Enable
POSTNET Code



* Disable
POSTNET Post



Enable B & B'
Fielded POSTNET



* Disable B & B'
Fielded POSTNET



Enable
UPU Decoding



* Disable
UPU Decoding



** Factory Default Configuration*

CODE TYPES AND DECODE RULES

Postal

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



* Disable
Codablock A



Enable
Codablock F



* Disable
Codablock F



PDF Options

Enable
Transmit \\ as \



* Enable
Transmit \\ as \



Software Handshaking

Enable
JV Handshaking



An “JV” response from
the host indicates
reception of scanner data.

Disable
JV Handshaking



Multifunctional USB/IBM Interface

Dual Interface Defaults



Additional Interfaces

Enable Beeper
ON/OFF Commands



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

* Disable Beeper
ON/OFF Commands



3rd Generation
IBM 46xx Defaults



For this feature to
function properly, scan
IBM Reserved Code #2
after scanning the 3rd
Generation IBM 46xx
Default bar code.

IBM Reserved Code #2

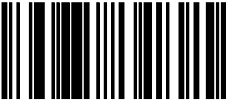


Scan IBM Reserve bar
code above after
scanning the 3rd
Generation IBM 46xx
Default bar code.

Additional Interfaces

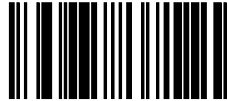
IBM 46xx-SIOC RS485 Interface

Send 30H for Last Block
Label Identifier 4680



For PDF
codes only.

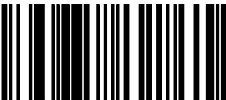
* Send 00 for Last Block
Label Identifier 4680



For PDF
codes only.

IBM-OEM USB Interface

Send 30H for Last Block
Label Identifier USB



For PDF
codes only.

* Send 00 for Last Block
Label Identifier USB



For PDF
codes only.

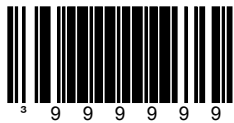
Additional Interfaces

Full Speed USB
Keyboard Interface



ENTER/EXIT CONFIGURATION MODE BAR CODE

Enter Exit Configuration Mode



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