

Barcode Scanner

Model no. NuScan 5000

User's Manual

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Limited Warranty

No warranty of any kind is made in regard to this material, including, but not limited to, implied warranties of merchantability or fitness for any particular purpose. We are not liable for any errors contained herein or for incidental or consequential damages in connection with furnishing, performance or use of this material. We shall be under no liability in respect of any defect arising from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow the instructions and warnings, or misuse or alteration or repair of the products without written approval.

Table of Contents

1.	INTRODUCTION.....	2~3
2.	INSTALLATION.....	4~6
3.	SET UP FROM BAR CODE LABEL.....	7
	Operating Settings.....	8
	Sensor Mode.....	8~9
	USB Country Keyboard Types.....	10~11
	1D Symbologies On/Off.....	12~14
	2D Symbologies On/Off.....	15~16
	Symbologies Set Up.....	17~23
	Termination String Setup Bar Codes.....	24

Introduction

NUSCAN 5000 barcode scanner, using 2D engine, combines the best scanning performance and value. The device provides an accurate, easy, and fast method of data entry and data storage for computerized information systems. It is easy to install drivers to operate.

All the operating parameters are programmed by bar code programming menu and stored in non-volatile RAM which can retain the settings after power is turned off.

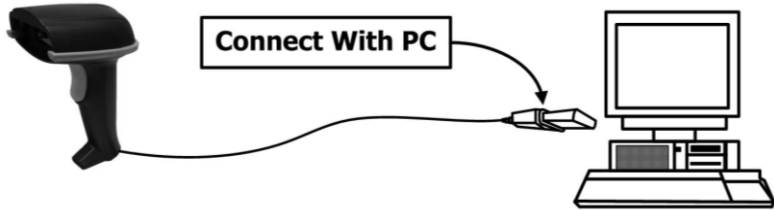


When a barcode is successful decoded, the blue LED light of the scanner will turn on and off. The scanner will beep once.

Installation

Insert the plug on the free end of the Communications Cable into the appropriate connector on the PC as below described:

USB cable Connection(USB HID):



Reset Configuration to Defaults

If you are unsure of the scanner configuration or have scanned the incorrect codes, please scan the “Reset Configuration to Defaults” barcode below. This will reset the scanner to its factory defaults settings in USB interface.

1. Be sure that PC is turned OFF
2. Connect scanner cable to the USB port on the PC.
3. Ensure that all connections are secure. Turn on your PC.
4. And please operate the scanner under the right software application.
5. Aim the scanner at a barcode, ensure that the scanner is in trigger mode (default), and press the trigger.
6. On successful decode, the blue LED light will turn on and off. The scanner will beep once. And will show the barcode data on the screen.

Reset Configuration to Defaults

If you are unsure of the scanner configuration or have scanned the incorrect codes, please scan the “Reset Configuration to Defaults” barcode. This will reset the scanner to its factory defaults settings.



**** Code Programming ON**
(Pro CMD : 0006010)



Load Factory Default
(Pro CMD : 0001160)



**** Code Programming OFF**
(Pro CMD : 0006000)

Operation

Tip

Do not hold the scanner directly over a barcode at 90°. Scanning light bounces directly back into the scanner from the barcode label is known as specular reflection which will create a "dead zone" where decoding is difficult. Practice a few times to find what range of angles works best.

Maintenance

Cleaning the scan window is the only maintenance required. A dirty window may affect scanning accuracy.

Wipe the scanner window gently with a lens tissue or other material suitable for cleaning optical material.

Do not spray water or other cleaning liquids directly onto the window.

Setup from Bar Code Label



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Operating settings

Trigger Mode



Pro CMD : 0302000

Auto-Sensing



Pro CMD : 0302010

Sensor Mode Timeout



Pro CMD : 0313000

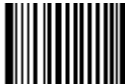
Sensor Mode

High Sensitivity (= 8)



Pro CMD : 0312020

Normal Sensitivity (= 11)



Pro CMD : 0312010

Low Sensitivity (= 14)



Pro CMD : 0312000

Enhanced Sensitivity (= 5)



Pro CMD : 0312030

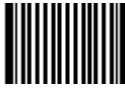


**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Allow Reading All = enable to read all symbologies and programming codes



Pro CMD : 0001020

Prohibit Reading All = allow reading programming codes only.



Pro CMD : 0001010

Allow Reading All 1D



Pro CMD : 0001040

Prohibit Reading All 1D



Pro CMD : 0001030

Allow Reading All 2D



Pro CMD : 0001060

Prohibit Reading All 2D



Pro CMD : 0001050

USB Country Keyboard Types

The keyboard arrangements and country codes vary in different countries. Refer country codes to the table “USB Country Keyboard Types”. Follow the steps mentioned below to program.

1. “Code Programming ON”
2. “Select Country Code”
3. Read digit codes (according to country code)
4. “Save ”
5. “Code Programming OFF”



** Code Programming ON
(Pro CMD : 0006010)



Select Country Code
(Pro CMD : 1103000)



** Code Programming OFF
(Pro CMD : 0006000)



Save
(Pro CMD: 0000160)

Country/Language	Number	Country/Language	Number
U.S.	0	Netherlands(Dutch)	14
Belgium	1	Norway	15
Brazil	2	Poland	16
Canada(French)	3	Portugal	17
Czech	4	Romania	18
Denmark	5	Russia	19
Finland(Swedish)	6	Slovakia	21
France	7	Spain	22
Germany/Austria	8	Sweden	23
Greece	9	Switzerland(German)	24
Hungary	10	Turkey F	25
Israel(Hebrew)	11	Turkey Q	26
Italy	12	U.K	27
Latin-American	13	Japan	28

Digit Code

It is must to be read save after read digit code.



0

(Pro CMD : 0000000)



5

(Pro CMD : 0000050)



1

(Pro CMD : 0000010)



6

(Pro CMD : 0000060)



2

(Pro CMD : 0000020)



7

(Pro CMD : 0000070)



3

(Pro CMD : 0000030)



8

(Pro CMD : 0000080)



4

(Pro CMD : 0000040)



9

(Pro CMD : 0000090)



**** Code Programming ON**
 (Pro CMD : 0006010)



**** Code Programming OFF**
 (Pro CMD : 0006000)

1D Symbolgies On/Off – 1

CODE 39 ENABLE



Pro CMD : 0408020

ENABLE * Sign



Pro CMD: 0408090

CODE 39

CODE 39 DISABLE



Pro CMD : 0408010

DISABLE * Sign



Pro CMD: 0408080

CODE 93 - ENABLE



Pro CMD : 0410020

CODE 128 - ENABLE



Pro CMD : 0400020

CODE 93

CODE 93 - DISABLE



Pro CMD : 0410010

CODE 128 - DISABLE



Pro CMD : 0400010

CODE 128

CODABAR - ENABLE



Pro CMD : 0409020

INTERLEAVED 25 - ENABLE



Pro CMD : 0405020

CODABAR

CODABAR - DISABLE



Pro CMD : 0409010

INTERLEAVED 25 - DISABLE



Pro CMD : 0405010

INTERLEAVED

25



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

1D Symbolies On/Off – 2

UPC-A ENABLE



Pro CMD : 0404020

UPC/EAN

UPC-A DISABLE



Pro CMD : 0404010

UPC-E ENABLE



Pro CMD : 0403020

UPC-E DISABLE



Pro CMD : 0403010

EAN-8 ENABLE



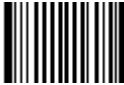
Pro CMD : 0401020

EAN-8 DISABLE



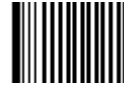
Pro CMD : 0401010

EAN-13 ENABLE



Pro CMD : 0402020

EAN-13 DISABLE



Pro CMD : 0402010

EAN-128 ENABLE



Pro CMD : 0412020

UCC/EAN

EAN-128 DISABLE



Pro CMD : 0412010

ENABLE



Pro CMD: 0417020

Industrial 25

DISABLE



Pro CMD: 0417010

ENABLE



Pro CMD: 0406020

Matrix 25

DISABLE



Pro CMD: 0406010



**** Code Programming ON**

(Pro CMD : 0006010)



**** Code Programming OFF**

(Pro CMD: 0006000)

1D Symbolgies On/Off – 3

MSI Plessy ENABLE



Pro CMD : 0420020

Code 11 ENABLE



Pro CMD : 0415020

ISBN ENABLE



Pro CMD : 0416020

ENABLE



Pro CMD : 0414020

MSI Plessy

Code 11

ISBN

UCC/EAN
Composite

MSI Plessy DISABLE



Pro CMD : 0420010

Code 11 DISABLE



Pro CMD : 0415010

ISBN DISABLE



Pro CMD : 0416010

DISABLE



Pro CMD : 0414010



**** Code Programming ON
(Pro CMD : 0006010)**



**** Code Programming OFF
(Pro CMD : 0006000)**

2D Symbologies On/Off - 1

Data Matrix

Data Matrix -ENABLE



Pro CMD : 0504020

**Forward Direction

Barcode Only



Pro CMD: 0504320

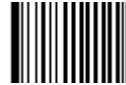
Backward Direction

Barcode Only



Pro CMD : 0504321

Data Matrix -DISABLE



Pro CMD : 0504010

Both



Pro CMD:0504322

QR Code

QR Code -ENABLE



Aztec -ENABLE



Pro CMD : 0503020

QR Code -DISABLE



Aztec -DISABLE



Pro CMD : 0503010

Aztec

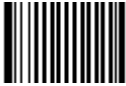


**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

PDF 417ENABLE



Pro CMD : 0501020

PDF 417

PDF 417 DISABLE



Pro CMD : 0501010

****Forward Direction Barcode**



Pro CMD:0501320

Both



Pro CMD:0501322

Backward Direction Barcode



Pro CMD:0501321



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming**
OFF
(Pro CMD : 0006000)

Symbologies Set Up - 1

TRANSMIT UCC/EAN-8
 CHECK -ENABLE



Pro CMD : 0401040

UPC/EAN -8
CHECK Digit

TRANSMIT
 UCC/EAN-8
 CHECK -DISABLE



Pro CMD : 0401030

TRANSMIT UCC/EAN-13
 CHECK -ENABLE



Pro CMD : 0402040

UPC/EAN -13
CHECK Digit

TRANSMIT
 UCC/EAN-13
 CHECK -DISABLE



Pro CMD : 0402030

Transmit 13 digits



Pro CMD : 0416030

ISBN
Transmit

Transmit 10 digits



Pro CMD : 0416040

TRANSMIT UPC-E
 CHECK -ENABLE



Pro CMD : 0403040

UPC-E
CHECK Digit

TRANSMIT UPC-E
 CHECK -DISABLE



Pro CMD : 0403030

TRANSMIT UPC-A
 CHECK -ENABLE



Pro CMD : 0404040

UPC-A
CHECK Digit

TRANSMIT UPC-A
 CHECK -DISABLE



Pro CMD : 0404030



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up - 2

NO Check, Transmit All



Pro CMD : 0405050
 Check, Transmit All



Pro CMD : 0405070

Interleaved 25
CHECK Digit

Check, Transmit No
 Check



Pro CMD : 0405060

NO Check, Transmit All



Pro CMD : 0406050
 Check, Transmit All



Pro CMD : 0406070

Matrix 25
CHECK Digit

Check, Transmit No
 Check



Pro CMD : 0406060

Code 39 FULL ASCII
 -ENABLE



Pro CMD : 0408110

CODE 39
FULL ASCII

Code 39 FULL ASCII
 -DISABLE



Pro CMD : 0408100

NO Check, Transmit All



Pro CMD : 0408050
 Check, Transmit All



Pro CMD : 0408070

CODE 39
CHECK Digit

Check, Transmit No
 Check



Pro CMD : 0408060



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up – 3

CODEBAR CHECK Digit

NO Check, Transmit All



Pro CMD : 0409050

Check, Transmit No
Check



Pro CMD : 0409060

Check, Transmit All



Pro CMD : 0409070

Transmit Both Start & Stop
Character



Pro CMD : 0409090

Transmit Neither Start &
Stop Character



Pro CMD : 0409080

CODE 93 CHECK Digit

NO Check, Transmit All



Pro CMD : 0410050

Check, Transmit No
Check



Pro CMD : 0410060

Check, Transmit All



Pro CMD : 0410070



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up - 4

NO Check, Transmit All



Pro CMD : 0420050
 Single Check Digit , MOD10



Pro CMD : 0420060
 Double Check Digits ,
 MOD10/MOD10



Pro CMD : 0420070

MSI Plessey **CHECK** **Digit**

Double Check Digits,
 MOD10/MOD11



Pro CMD : 0420080
 NO Transmit Check Digits



Pro CMD : 0420090

Transmit Check Digits



Pro CMD : 0420100



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up - 5

Code 11 CHECK Digit

NO Check, Transmit All



Pro CMD : 0415050

Single Check Digit MOD11 (Len <= 10)
 Double Check Digits
 MOD11/MOD11 (Len > 10)



Pro CMD : 0415090

Single Check Digit , MOD11



Pro CMD : 0415060

Single Check Digit MOD11 (Len <= 10)
 Double Check Digits
 MOD11/MOD9 (Len > 10)



Pro CMD : 0415100

Double Check Digits ,
 MOD10/MOD10



Pro CMD : 0415070

Do not Transmit Check
 Digits



Pro CMD : 0415110

Transmit Check Check Digits



Pro CMD : 0415120



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up – 6

UPC/EAN FORMATIN G

EXPAND EAN-8 TO EAN-13

ENABLE



Pro CMD : 0401100

EXPAND EAN-8 TO EAN-13

DISABLE



Pro CMD : 0401090

2 Digits Addenda ENABLE



Pro CMD : 0401060

UPC/EAN-8 **Addenda** **Code**

2 Digits Addenda DISABLE



Pro CMD : 0401050

5 Digits Addenda ENABLE



Pro CMD : 0401080

5 Digits Addenda DISABLE



Pro CMD : 0401070

2 Digits Addenda ENABLE



Pro CMD : 0402060

UPC/EAN-13 **Addenda** **Code**

2 Digits Addenda DISABLE



Pro CMD : 0402050

5 Digits Addenda ENABLE



Pro CMD : 0402080

5 Digits Addenda DISABLE



Pro CMD : 0402070



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

Symbologies Set Up – 7

2 Digits Addenda ENABLE



Pro CMD : 0403060

UPC-E
Addenda Code

2 Digits Addenda DISABLE



Pro CMD : 0403050

5 Digits Addenda ENABLE



Pro CMD : 0403080

5 Digits Addenda DISABLE



Pro CMD : 0403070

UPC-E
Default “0”

Do Not Transmit



Pro CMD : 0403090

Transmit



Pro CMD : 0403100

2 Digits Addenda ENABLE



Pro CMD : 0404060

UPC-A
Addenda Code

2 Digits Addenda DISABLE



Pro CMD : 0404050

5 Digits Addenda ENABLE



Pro CMD : 0404080

5 Digits Addenda DISABLE



Pro CMD : 0404070



**** Code Programming ON**
(Pro CMD : 0006010)



**** Code Programming OFF**
(Pro CMD : 0006000)

TERMINATION STRING SETUP BAR CODES

Step 1



Pro CMD : 0310000

STRING# 1
TERMINATION
CHAR - CR

Step 2



Pro CMD : 0309010

Step3



Pro CMD : 0000160