

# **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.

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# **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.

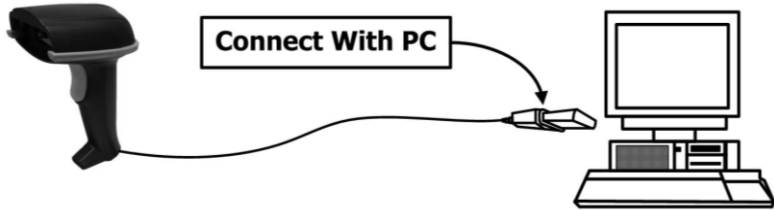


When a barcode is successful decoded, the blue LED light of the scanner will turn on and off. The scanner will beep once.

# 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

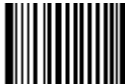
## Sensor Mode

### High Sensitivity (= 8)



Pro CMD : 0312020

### Normal Sensitivity (= 11)



Pro CMD : 0312010

### Low Sensitivity (= 14)



Pro CMD : 0312000

### Enhanced Sensitivity (= 5)



Pro CMD : 0312030

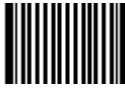


**\*\* Code Programming ON**  
**(Pro CMD : 0006010)**



**\*\* 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**



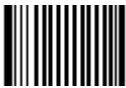
Pro CMD: 0408080

### **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 Symbolgies 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**

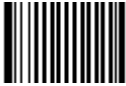


**\*\* Code Programming ON**  
**(Pro CMD : 0006010)**



**\*\* 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

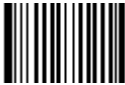
Transmit Neither Start &  
Stop Character



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



Pro CMD : 0415060

Double Check Digits ,  
MOD10/MOD10



Pro CMD : 0415070

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



Pro CMD : 0415090

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



Pro CMD : 0415100

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