



AS-8060

Barcode Scanner

User Manual



<http://www.argox.com>

Version: 2.0

Regulatory Compliance

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.





Note: All brands and trademarks are the property of their respective owners.



Note: The specifications contained herein are subject to change without notice.

警告使用者:

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

| 設備名稱：條碼閱讀器 Equipment name | | 型號（型式）：AS-8060 Type designation (Type) | | | | |
|------------------------------|---|---|---------------|---|-------------------------------------|---|
| 單元 Unit | 限用物質及其化學符號 (Restricted substances and its chemical symbols) | | | | | |
| | 鉛Lead (Pb) | 汞Mercury (Hg) | 鎘Cadmium (Cd) | 六價鉻 Hexavalent chromium (Cr ⁶⁺) | 多溴聯苯 Polybrominated biphenyls (PBB) | 多溴二苯醚 Polybrominated diphenyl ethers (PBDE) |
| 印刷電路板組件 | — | ○ | ○ | ○ | ○ | ○ |
| 機殼 | ○ | ○ | ○ | ○ | ○ | ○ |
| 線材 | ○ | ○ | ○ | ○ | ○ | ○ |
| 掃描模組 | — | ○ | ○ | ○ | ○ | ○ |

備考1. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 1: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考2. “—” 係指該項限用物質為排除項目。
Note 2: The “—” indicates that the restricted substance corresponds to the exemption.

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Introduction

Your AS-8060 is a 1D CCD scanner that has been configured at the factory with default settings.

Since many host systems have unique formats and protocol requirements, Argox provides a wide range of configurable features that may be selected using this bar code based configuration tool. Once the configuration is completed, the scanner stores the settings in nonvolatile memory. The embedded memory saves the settings when the power is turned off.

Turn off the computer's power before connecting the scanner, and then power up the computer once the scanner is fully connected.

You can change a parameter value in the way described below:

- ✧ Scan the appropriate bar codes in this guide. These new values replace the standard default values in memory.

NOTE: Most computer monitors allow scanning the bar codes directly on the screen. When scanning from the screen, be sure to set the document magnification to a level where you can see the bar code clearly, and bars and/or spaces are not merging.

Application Field:

- ✓ Jewelry Tag
- ✓ Manufacturing
- ✓ Transportation & Logistics
- ✓ Healthcare

Feature:

- Rich to make daily work simple and easy
- 2500 pixels CCD image sensor
- Scan Speed ≥ 270 times/sec
- Max. reading resolution: 3mil (0.0762mm)
- Depth of Field: 15~330mm
(EAN, 13mil/0.33mm, PCS 90%)
- Drop resistance: 1.5 meters onto the concrete
- Auto-sensing (presentation) mode available



※ Just scan the Presentation Mode barcode on the Stand to easily switch to presentation mode for the AS-8060 scanner.

Presentation Mode Barcode

Unpacking

Make sure all of the following items are included in your package.

- ✓ Scanner x1
- ✓ Stand x1
- ✓ Quick Start Guide x1
- ✓ USB Cable x1

When you receive your scanner, open the package immediately and inspect for shipping damage. If you discover any damage, contact the shipping company and file a claim. Argox is not responsible for any damage incurred during shipping. Save all package materials for the shipping company to inspect.



Note If any item is missing, please contact your local dealer.

Get started

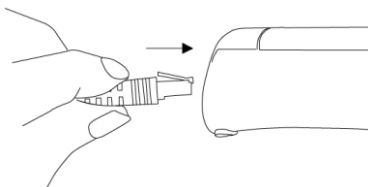
This chapter provides information about how to install, connect and use your scanner to do your work.

Installation

This section describes how to set up your scanner.

Set up your scanner

1. Plug the RJ45 connector into your scanner's RJ45 port, until you hear a click.



2. Connect the USB connector to your computer.
3. Turn on your computer. It detects your scanner automatically.
4. To test your scanner, start a text processing program like Notepad or Microsoft Word. Scan a bar code and see if the data can be sent to your computer. If it's successful, you'll hear a beep and the bar code data shows in the program.

How to scan

AS-8060 emits a light bar when it is scanning. To scan a barcode, make sure the aiming beam crosses every bar and space of the barcode. This bar needs to cross the bar code horizontally to decode it.



Controls and settings

Customize your scanner to work efficiently. AS-8060 offers many features to match your preferences. This chapter provides information about how to change controls and settings of your scanner.

Version information setting code

Hardware version



000A0

Software version



000A1

Factory default



000B0

Enable the code setting function



09990

Disable the code setting function



09991

Interface mode setting code

AS-8060 supports USB HID and virtual COM. By default, your scanner is able to detect the interface automatically. When it detects USB, it selects HID as your scanner's interface.

RS-232



USB-HID (Default)



USB Virtual Com



Note: If you use the scanner that communicates with your computer via a serial interface (e.g. COM1...COM8), but your computer does not have any serial port, you will require a so-called virtual COM port driver. This virtual COM port driver allows you to assign a virtual COM port connection number to your computer connected via a USB port and enables bidirectional communication between your computer and this scanner.

To download the USB virtual COM port driver of AS-8060 scanner, go to the Argox global website (<http://www.argo.com/>).

After downloading the driver, start to install it. When you finish installing the driver, it is suggested to restart your computer. The system will automatically detect the scanner.

Scan mode setting code

Trigger mode (default)



013300

Continuous scan mode



013304

Presentation mode



013380

Key delay



013302

Note:

1. Press the scan trigger button to emit light.
2. Release the scan trigger button, and the light will turn off.
3. After scanning a barcode, the scanner's light will stay on for a short period, and if you don't continue scanning a barcode (the default mode is to turn off the light after scanning a barcode), it will turn off.

Single not triggered



013301

Note:

1. Press the scan trigger button to emit light.
2. Release the scan trigger button; the light will remain on for a short period, and if you don't continue scanning a barcode, it will turn off.
3. After scanning a barcode, the scanner's light will immediately turn off.

Key delay not triggered



013303

Note:

1. Press the scan trigger button to emit light.
2. Release the scan trigger button; the light will remain on for a short period, and if you don't continue scanning a barcode, it will turn off.
3. After scanning a barcode, the scanner's light will stay on for a short period, and if you don't continue scanning a barcode, it will turn off.

Auto flashing



013305

Sound setting code

Sound on (default)



014201

Sound off



014200

Buzzer frequency 2048



0145800

High volume sound



014300

Low volume sound



014301

Buzzer frequency 2731



0145AAA

Character delete / insert / replacement setting

Code ID off (default)



01400

Code ID on



01401

Rear code ID on



01402

Display code front character
(default)



0201x

Hide code front blank



0200[SPACE]

Display code rear character
(default)



0203

Hide code rear character n
("n" indicates a blank key.)



0202[SP]

Display characters inside code
(default)



0205-

Hide – inside code



0204-

Disable A replace 0 in code
(default)



020600

Enable A replace 0 in code



Display rear characters (default)



Hide rear 4 characters



Hide rear 5 characters



Hide rear 1 characters



Display front characters (default)



Hide front 4 characters



Hide front 5 characters



Display middle characters
(default)



Hide 5 middle characters



023905

Forward start from 4th character



024004

FUNC1 replace with 1



0160049

FUNC2 replace with 2



0161050

FUNC3 replace with 3



0162051

FUNC4 replace with 4



0163054

Disable enter replace (default)



0182013

Enter replace with 5



0182055

Serial port setting

Baud rate 600bps



Baud rate 1200bps



Baud rate 2400bps



Baud rate 4800bps



Baud rate 9600bps (default)



Baud rate 19200bps



Baud rate 38400bps



Baud rate 57600bps



Baud rate 115200bps



Serial Port: No Check



Serial port: XON/OFF



Serial port: RTS/CTS



Serial port handshake timeout 2s



Serial port handshake timeout 5s



Serial port 8-bit data



Serial port 7-bit data



Serial port 1 stop bit



Serial port 2 stop bits



Serial port No parity check



Serial port odd parity check



Serial port even parity check



Normal function setting code

Enable upload setting barcodes



Disable upload setting barcodes
(default)



FUNC cast light upon cancel
(default)



Disable change



All uppercase



All lowercase



Uppercase interchange
with lowercase



02513

Enable command beep



01411

Disable command beep



01410

Forward image identify (default)



00161

Reverse image identify



00160

Fastest transmit rate



001500

Medium transmit rate (default)



001502

Lower transmit rate



001504

Lowest transmit rate



001506

Prefix / suffix setting

CR



0212@\r

CR+LF



0213@\r\n

All barcodes (rear) add ETX



0211@[ETX]

All barcodes (front) add F2



02160081

All barcodes (rear) add F2



02110081

Cancel all barcodes (rear)
format character



0210@

Add STX before barcodes



0217@[STX]

Cancel all boots before
barcodes



0215@

Add prefix



02240

Add suffix



02241

Exit add pre/suffix Mode



02242

Clear all prefix



02220

Clear all suffix



02200

Enter hidden front character
mode



02340

Enter hidden rear character
mode



02341

Enter hidden middle character
mode



02342

Enter the hidden Nth character
mode



02343

Multi-language setting code

English (default)



0005000

Canada (French)



0005001

Dutch (Netherlands)



Spain (Spanish)



Argentina (Latin American)



Brazil (Portuguese)



Denmark (Danish)



UK (English)



Italy (Italian142)



France (French)



German (Germany)



Norway (Northern Sami)



Sweden, Finland
(Swedish, Finnish)



Slovak (Slovakia)



Portuguesa (Portuguese)



Czech Republic (Czech)



Belgium (Dutch)



Turkey-F



Turkey-Q



Poland (Polish214)



Switzerland (German, French)



Croatia (Srb-Crt)



Hungary (Hungarian)



Japan (Japanese)



Russia (Russian)



Arabic (Egypt)



Character table

(For adding pre/suffix)



1001
SOH



1003
ETX



1002
STX



1004
EOT



1006
ACK



1005
ENQ



1007
BEL



1009
TAB



1008
Backspace



1010
Line



1012
FF



1011
VT



1013
Enter



1015
SI



1014
SO



1016
DLE



1018
DC2



1017
DC1



1019
DC3



1021
NAK



1020
DC4



1022
SYN



1024
CAN



1023
ETB



1025
EM



1027
ESC



1026
SUB



1028
FS



1030
RS



1029
GS



1031
US



1033
!



1032
SPACE



1034
“



1036
\$



1035
#



1037
%



1039
,



1038
&



1040
(



1042
*



1041
)



1043
+



1045
-



1044
,



1046

.



1048

0

Note: Used to set
address/prefix/suffix



1047

/



1049

1

Note:
Used to set address/prefix/suffix



1051

3

Note:
Used to set address/prefix/suffix



1050

2

Note:
Used to set address/prefix/suffix



1052

4

Note:
Used to set address/prefix/suffix



1054

6

Note:
Used to set address/prefix/suffix



1053

5

Note:
Used to set address/prefix/suffix



1055

7

Note:
Used to set address/prefix/suffix



1057

9

Note:
Used to set address/prefix/suffix



1056

8

Note: Used to set address/prefix/suffix



1058

:



1060

<



1059

;



1061

=



1063

?



1062

>



1064

@



1066

B



1065

A



1067

C



1069

E



1068

D



1070
F



1072
H



1071
G



1073
I



1075
K



1074
J



1076
L



1078
N



1077
M



1079
O



1081
Q



1080
P



1082
R



1084
T



1083
S



1085
U



1087
W



1086
V



1088
X



1090
Z



1089
Y



1091
[



1093
]



1092
\



1094
^



1096
`



1095
-



1097

a



1099

c



1098

b



1100

d



1102

f



1101

e



1103

g



1105

i



1104

h



1106

j



1108

l



1107

k



1109

m



1111

o



1110

n



1112

p



1114

r



1113

q



1115

s



1117

u



1116

t



1118

v



1120

x



1119

w



1121

y



1123

{



1122

z



1124

|



1126

~



1125

}



1127

Delete



1129

F2



1128

F1



1130

F3



1132

F5



1131

F4



1133

F6



1135

F8



1134

F7



1136

F9



1138

F11



1137
F10



1139
F12



1141
HOME



1140
INSERT



1142
Page up



1144
END



1143
Delete



1145
Page down



1147
Left arrow



1146
Right arrow



1148
Down arrow



1149
Up arrow

Enable / disable barcodes

Enable code39



Disable code39



Code39 ID as m



Enable code39 Full ASCII
(default)



Disable code39 Full ASCII



Disable code39 MOD43 Check
(default)



Enable code39 MOD43 Check



Enable code39 transmit check



Disable code39 transmit check



Disable code39 transmit “*”
(default)



Enable code39 transmit “*”



00281

Disable code32 (default)



01950

Enable code32

Note: It will affect code39.



01951

Code39 TAB Mode



0212M\t

System characters hiding code32



01961

System characters sending
code32



01960

Setting the CODE39 to a min.
length of 1

Software version available before
and after V7.53



003201

Setting the CODE39 to a min.
length of 2 (default)

Software version available before
and after V7.53



003202

Setting the CODE39 to a min.
length of 3

Software version available before
and after V7.53



003203

Code39 min. length 1
(software version available
before V7.53)



Code39 min. length 2 (default)
Software version available after
V7.53



Code39 min. length 3
Software version available after
V7.53



Enable UPC-A (default)



Disable UPC-A



UPC-A ID as e



Enable UPC-A change to
EAN-13



Disable UPC-A change to
EAN-13 (default)



Transmit UPC-A check digit
(default)



No-transmit UPC-A check
digit



UPC-A display system digit



UPC-A hide system digit



Enable UPC-E (default)



Disable UPC-E



UPC-E ID as f



Enable UPC-E change to
UPCA



Disable UPC-E change to
UPC-A (default)



UPC-E hiding system
characters



UPC-E sending system
characters



UPC-E sending check digits



UPC-E not sending check digits



Enable EAN-13 (default)



Disable EAN-13



EAN-13 ID as d



Transmit EAN-13 Check digit
(default)



No-transmit EAN-13 check digit



Enable EAN-13 change to
ISBN



Disable EAN-13 change to
ISBN (default)



Enable EAN-13 change to
ISSN



Disable EAN-13 change to
ISSN (default)



Enable EAN-13 multiple verify



Disable EAN-13 multiple
verify (default)



Enable EAN-8 (default)



Disable EAN-8



EAN-8 ID as c



EAN-8 transmit check digit
(default)



EAN-8 No-transmit check digit



EAN-8 hide system digit



EAN-8 display system digit
(default)



Enable 5-digit supplement



Enable 2-digit supplement



Enable 2-digit
& 5-digit supplements



Disable supplement (default)



Enable code93 (default)



Disable code93



Code93 ID as i



Enable code93 multiple verify



Disable code93 multiple verify
(default)



Enable Code93 MOD47
(default)



Disable Code93 MOD47



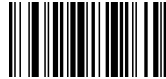
01900

Enable code128 (default)



00691

Disable code128



00690

Code128 ID as a



0081a

Disable code128 multiple
verify (default)



00840

Enable code128 multiple verify



00841

Enable codabar (default)



00851

Disable codabar



00850

Codabar ID as v



0094v

Codabar min. length 4



008704

Codabar start /
stop character transmission



Codabar start / stop character
without transmission (default)



Enable interleaved 2 of 5
(default)



Disable interleaved 2 of 5



Interleaved 2 of 5 ID as n



Interleaved 2 of 5 min. length 4



Enable Interleaved 2 of 5 ID
check



Disable Interleaved 2 of 5 ID
check



No transmission of check on
Interleaved 2 of 5 ID



Transmission of check
on Interleaved 2 of 5 ID



Enable bank mode



01001

Disable bank mode



01000

Enable industrial 2 of 5
(default)



01061

Disable industrial 2 of 5



01060

Industrial 2 of 5 ID as o



01130

Industrial 2 of 5 min. length 3



010703

Enable MSI



01151

Disable MSI (default)



01150

MSI ID as s



0053s

MSI min. length 4



011804

Enable Plessey



01161

Disable Plessey (default)



01160

Plessey ID as t



0117t

Plessey min. length 3



011903

Enable code11 (default)



01261

Disable code11



01260

code11 ID as u



0131u

Code11 min. length 4



012804

Code11 auto CK check



01271

Code11 C check (default)



01272

Code11 CK check



Enable Matrix 25 (default)



Disable Matrix 25



Matrix 25 ID as q



Matrix 25 min. length 2



Matrix 25 min. length 3



Enable postal 25



Disable postal 25 (default)



Postal 25 ID as r



Postal 25 min. length 5



Postal 25 min. length 7



015907

Enable aerial 25



01871

Disable aerial 25 (default)



01870

Aerial 25 ID as p



0188p

Aerial 25 min. length 7



018907

All EAN change to ISSN



02371

Disable EAN change to ISSN
(default)



02370

All EAN change to ISBN



02361

Disable EAN change to ISBN
(default)



02360

Enable digital keyboard mode



02581

Disable digital keyboard mode



02580

Enable GS1 Omni-directional



01671

Disable GS1 Omni-directional
(default)



01670

GS1 Omni ID as j



0168j

Enable GS1 Limited



01771

Disable GS1 Limited (default)



01770

GS1 Limited ID as k



0178k

Note: The setting code type is code128. When generating a barcode, you must add ^3 before the barcode, ie ^3+***** (required barcode):

The ASCII codes in this table are all decimal. For the hexadecimal, please refer to the attached table 2.

➤ **Prefix / suffix code setting instructions**

1. The pre/suffix code is divided into a common pre/suffix code and a private pre/suffix code. The common pre/suffix code means that the pre/suffix code is added before a barcode; the private pre/suffix code refers to a certain type of barcode, such as code 128 codes and code 39, a specific barcode to which the pre/suffix is added. You can add up to 32 characters.
2. Common pre/suffix code:
There are two ways to add the pre/suffix code:
[1]. Scan a barcode additive, and the setting code is 0223X (prefix code) and 0221X (suffix code), where 0223 and 0221 stands for one common pre/suffix code, where the value of X represents the added character and this X is a binary. For example, to add a common pre/suffix code A, the setting code is 0221A, which means that the suffix code A is added to all barcodes. Input the following data in the software.

The setting code is 0223A, which means that all barcodes are added with the first code A. Input the following data in the software.

For example, a common suffix code is added and the setting code is 0221r. Input the following data in the software.

[2]. In the second way, the prefix and suffix codes are added. Setting codes are scanned and set through ASCII code. The setting codes are 021100nn (suffix code) and 021600nn (prefix code). This ASCII setting is hexadecimal. Refer to ASCII Table 2 for specific parameters.

For example, if the common suffix code A is needed, the setting code is 02110041 according to the hexadecimal system; if the common prefix code A is needed, the setting code is 02160041 according to the hexadecimal system.

In addition, is needed to add a character after the barcode and then add Enter. If it is needed to add the character "+" after the bar code and then add Enter, the setting code is "0213@+r", the suffix code is "0212@non-accumulative, 0213@accumulative 2 times, and 0211@accumulative 3 times.

3. Adding an exclusive suffix code

A certain type of barcode needs to be added with an exclusive suffix code. For example, the Code 128 codes needs to be followed by the letter A; there are two ways to achieve:

1. 0211 0141

See Table 1 below for explanation.

See ASCII code table 2.

2. 0212 A A

If you want to accumulate, use 0213A and 0211A.

Please refer to Table 1 for other types of barcodes.

Likewise, if a certain type of barcode needs to be added with a prefix code, all Code 128 codes are needed before the letter A; there are two ways to achieve:

1. 0216 0141

See Table 1 below for explanation.

See ASCII code table 2.

2. 0217 A A

If you want to accumulate, use 0218A.

➤ **Sleep time setting / button timeout setting**

1. Sleep time setting code: 0310nn

If XS sleep is required and it is calculated in hexadecimal (4 for base), then the formula:
 $x/4=NNN$

For example, if it takes 60 seconds to automatically shut down, the setting code is 0310015.

If it takes 5 minutes to automatically shut down, the setting code is 0310015.

Sleep time limit: 42 minutes and 47 seconds

2. Button timeout setting code: 0235nn

If the button timeout is 4S, the setting code is 023540.

3. Introduction to the character hiding

The hidden suffix character setting code is 0233nn. To hide the suffix 5 characters, the setting code is 023305.

The hidden prefix setting code is 0234nn. If 023405 is to hide the prefix 5 characters, just change the value of nn to change the number of hidden characters.

Two setting codes that hide the middle character must be used at the same time, which are 0239nn (to hidden nn characters in the middle) / 0240nn (to begin hiding after the first nn characters).

》 For example, if the barcode is 123456789 and it is required to hide character 456, then the setting codes are 023903 (to hidden 3 middle characters) and 024003 (to begin hiding after the third character), and they can be used together to achieve the function and obtain 123789.

| |
|---|
| Code table 1 for barcode types |
|---|

| | | |
|---|------|--------------------|
| @ | (00) | All |
| A | (01) | code128 |
| C | (03) | EAN8 |
| D | (04) | EAN13 |
| E | (05) | UPCA |
| F | (06) | UPCE |
| I | (09) | CODE93 |
| J | (0A) | GS1 OMNI |
| K | (0B) | GS1 LIM1 |
| M | (0D) | CODE39 |
| N | (0E) | Interleaved 2 of 5 |
| O | (0F) | Industrial 2 of 5 |
| P | (10) | Aerial25 |
| Q | (11) | Matrix 25 |
| R | (12) | Postal 25 |
| S | (13) | MSI |
| T | (14) | PLESSEY |
| U | (15) | CODE11 |
| V | (16) | CODABAR |

Lookup table for specific keys and code values (ASCII code values available for standard characters):

F1 = 0x80; F2 = 0x81; F3 = 0x82;
F4 = 0x83; F5 = 0x84; F6 = 0x85;
F7 = 0x86; F8 = 0x87; F9 = 0x88;
F10 = 0x89; F11 = 0x8A; F12 = 0x8B;

Insert = 0x8C; Home = 0x8D;
Page up = 0x8E; Page down = 0x91;
Delete = 0x8F; End = 0x90;
Right = 0x92; Left = 0x93;
Down = 0x94; Up = 0x95;

If CODE93 is added with the STX prefix code, according to the STX ASCII value that is 0x02, then the content of the setting code that should be printed is as shown below.

Tip 1:

ASCII = [F3]'0' '2' '1' '6' 'I' [STX]

Binary = [F3] + 0x30 + 0x32 + 0x31 + 0x37 +
0x49 + 0x02

Setting barcode -->



Tip 2:

ASCII = [F3] + '0' + '2' + '1' + '6' + '0' + '9'
+ '0' + '2'

And if CODE93 is added with Home prefix code:

ASCII = [F3] + '0' + '2' + '1' + '6' + '0' + '9'
+ '8' + 'D'

(Note: Code93 corresponds to 09 <value of each code that is given in the note on the previous page>, home key value is 0x8D)

ASCII Table 2

| Decimal | Hexadecimal | Character |
|---------|-------------|--------------------------------|
| 0 | 0 | Null |
| 1 | 1 | Header start |
| 2 | 2 | Text start |
| 3 | 3 | Text end |
| 4 | 4 | Transmission end |
| 5 | 5 | Query |
| 6 | 6 | Confirmation |
| 7 | 7 | Ring |
| 8 | 8 | backspace |
| 9 | 9 | Level positioning character |
| 10 | 0A | Line feed / new line |
| 11 | 0B | Vertical positioning character |
| 12 | 0C | Form feed / new page |
| 13 | 0D | Enter |
| 14 | 0E | Shift-out |
| 15 | 0F | Shift-in |
| 32 | 20 | space |
| 33 | 21 | ! |
| 34 | 22 | " |

| Decimal | Hexadecimal | Character |
|---------|-------------|-----------|
| 35 | 23 | # |
| 36 | 24 | \$ |
| 37 | 25 | % |
| 38 | 26 | & |
| 39 | 27 | ' |
| 40 | 28 | (|
| 41 | 29 |) |
| 42 | 2A | * |
| 43 | 2B | + |
| 44 | 2C | , |
| 45 | 2D | - |
| 46 | 2E | . |
| 47 | 2F | / |
| 48 | 30 | 0 |
| 49 | 31 | 1 |
| 50 | 32 | 2 |
| 51 | 33 | 3 |
| 52 | 34 | 4 |
| 53 | 35 | 5 |
| 54 | 36 | 6 |
| 55 | 37 | 7 |
| 56 | 38 | 8 |
| 57 | 39 | 9 |
| 58 | 3A | : |
| 59 | 3B | ; |
| 60 | 3C | < |
| 61 | 3D | = |
| 62 | 3E | > |
| 63 | 3F | ? |

| Decimal | Hexadecimal | Character |
|---------|-------------|------------------------|
| 64 | 40 | @ |
| 65 | 41 | A |
| 66 | 42 | B |
| 67 | 43 | C |
| 68 | 44 | D |
| 69 | 45 | E |
| 70 | 46 | F |
| 71 | 47 | G |
| 72 | 48 | H |
| 73 | 49 | I |
| 74 | 4A | J |
| 75 | 4B | K |
| 76 | 4C | L |
| 77 | 4D | M |
| 78 | 4E | N |
| 79 | 4F | O |
| Decimal | Hexadecimal | Character |
| 16 | 10 | Data link translation |
| 17 | 11 | Device control 1 |
| 18 | 12 | Device control 2 |
| 19 | 13 | Device control 3 |
| 20 | 14 | Device control 4 |
| 21 | 15 | Reverse confirmation |
| 22 | 16 | Synchronous idle |
| 23 | 17 | Transmission block end |
| 24 | 18 | Cancel |
| 25 | 19 | Media end |
| 26 | 1A | Interchange |
| 27 | 1B | Translation |

| Decimal | Hexadecimal | Character |
|---------|-------------|------------------|
| 28 | 1C | File separator |
| 29 | 1D | Group separator |
| 30 | 1E | Record separator |
| 31 | 1F | Unit separator |
| 80 | 50 | P |
| 81 | 51 | Q |
| 82 | 52 | R |
| 83 | 53 | S |
| 84 | 54 | T |
| 85 | 55 | U |
| 86 | 56 | V |
| 87 | 57 | w |
| 88 | 58 | X |
| 89 | 59 | Y |
| 90 | 5A | Z |
| 91 | 5B | [|
| 92 | 5C | \ |
| 93 | 5D |] |
| 94 | 5E | ^ |
| 95 | 5F | _ |
| 96 | 60 | ` |
| 97 | 61 | a |
| 98 | 62 | b |
| 99 | 63 | c |
| 100 | 64 | d |
| 101 | 65 | e |
| 102 | 66 | f |
| 103 | 67 | g |
| 104 | 68 | h |

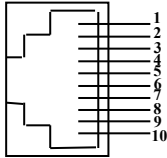
| Decimal | Hexadecimal | Character |
|---------|-------------|-----------|
| 105 | 69 | i |
| 106 | 6A | j |
| 107 | 6B | k |
| 108 | 6C | l |
| 109 | 6D | m |
| 110 | 6E | n |
| 111 | 6F | o |
| 112 | 70 | p |
| 113 | 71 | q |
| 114 | 72 | r |
| 115 | 73 | s |
| 116 | 74 | t |
| 117 | 75 | u |
| 118 | 76 | v |
| 119 | 77 | w |
| 120 | 78 | x |
| 121 | 79 | y |
| 122 | 7A | z |
| 123 | 7B | { |
| 124 | 7C | |
| 125 | 7D | } |
| 126 | 7E | ~ |
| 127 | 7F | DEL |

Specifications

| Standard Feature | |
|----------------------|--|
| Symbologies | UPC-A, UPC-E, EAN-13, EAN-8, Codabar, Code 39 Full ASCII, China Post, Plessey, MSI, Code 93, Code 128, Industrial 2 of 5, Interleave 2 of 5, Matrix 2 of 5, Code 11, ISBN, ISSN, Code32 (Italian Pharmcode), Code39 extended, GS1-128 and ITF-14, SISAS, GS1 Omnidirectional, GS1 Limited, Aviation25, RSS14 |
| Depth of Field | 25~100mm (Code39, 4mil, PCS90%) 15~330mm (EAN, 13mil, PCS90%) |
| Characteristics | |
| Dimensions | 102mm x 71mm x 177mm |
| Weight | 190g |
| Power | DC5V±1% |
| Trigger Switch | >1,000,000 cycles |
| Light Source | RED LED 620nm~630nm |
| Image Sensor | 2500 point pixel CCD image sensors |
| Interface | USB-HID, USB-Virtual COM |
| Indication | LED, Beeper |
| Performance | |
| Resolution | 3mil (0.0762mm) |
| Print Contrast | Min. 20% |
| Scan Rate | >=270 time/s |
| Scan Angle | Yaw±55°, Rotation±30°, Pitch±65° |
| Environment | |
| Light Strength | 70,000 Lux |
| Temperature | Operating temp.: -20°C to 50°C Storage temp.: -40°C to 70°C |
| Humidity | 5% to 95% (Non-condensing) |
| Drop | Withstands multiple times 1.5meters drops to concrete |
| Sealing | IP42 |
| Regulatory | |
| Regulatory Approvals | CE, FCC, BSMI |

*Argox reserves the right to enhance and modify the specifications without prior notice. Please check them from Argox sales representative for most updated specifications.

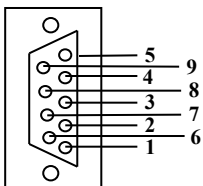
Pin Assignments



10 Pins

10-pin RJ45 Connector

| PIN | Function | Type | Name |
|-----|----------|------|----------|
| 1 | RxD | I | RS-232 |
| 2 | TxD | O | RS-232 |
| 3 | RTS | | N/A |
| 4 | GND | GND | GND |
| 5 | USB- | I/O | USB Data |
| 6 | USB+ | I/O | USB Data |
| 7 | VCC | P | Power |
| 8 | PS2MCK | | PS2 |
| 9 | PS2MDA | | PS2 |
| 10 | CTS | | N/A |



RS-232 Connector (To Host Side)

| Pin No. | RS-232 Definition |
|---------|-------------------|
| 1 | NC |
| 2 | TxD |
| 3 | RxD |
| 4 | NC |
| 5 | GND |
| 6 | NC |
| 7 | CTS |
| 8 | RTS |
| 9 | VCC (+5V) |