MD20xx Flash Utility V1.1.x
User Manual

1. Notes

1.1 Please convert the *.bin or *.dat file with file compression tools, such as WinZIP or WinRAR, during file transmission by email. Since some email servers will block the *.bin or *.dat file attached.

1.2 Please use appropriate Baud Rate setting (PC) when updating file in the barcode scanner. For example, for a PC with CPU speed higher than 1.2 GHz, its baud rate can be set to 57600bps or 115200bps.

1.3 The following progress keeps the same for the higher version firmware or utility, unless a further user manual is provided.

2. Configurations

Table 1 Configurations

Hardware	Computer	Windows 7/2k/XP/Me, 5M Free Space, Serial Port (9 pins)
	MD20xx scanner	
	USB cable or RS232 cable	
	5VDC power adaptor	
Software	<MD20xx Flash Utility > folder	Upgrade Tool package
	.bin or .dat file	Firmware upgrade file for MD20xx scanner

3. Upgrade Tool

MD20xx upgrade tool **Flash Utility** is shown in Fig.1.

Fig.1 Flash Utility

Note:

①Choose type of cable

②Choose Port

③Choose Baud Rate

④Choose file

⑤If selected, please confirm that the **Scan** button is pressed when scanner powers on to upgrade firmware.

⑥Click to upgrade firmware

4. Upgrade Method

Three methods to upgrade Firmware are shown in Table 2.

Table 2 Upgrade Methods

Upgrade Method	Type of cable	Descriptions
Method 1	RS232	**SCAN** button must be pressed when power up.
Method 2	USB	**SCAN** button must be pressed when power up.
Method 3	RS232	**SCAN** button can't be pressed when power up.

4.1 Method 1

Steps of Method 1 are following:

1) Connect scanner, RS232 cable and 5VDC adapter as shown in Fig. 2.

Power Adapter (Output: 5VDC)　　Connect to serial COM port of PC

Fig. 2 RS232 cable connection

2) Plug in a RS232 cable into a free serial COM port (COM1~COM4) of PC.

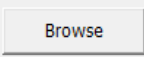3) Press **SCAN** button and connect the 5VDC adaptor power lead with the electrical source. As shown in Fig. 3.

SCAN button

Fig. 3

4) Double click **Flash Utility.exe** to bring up the interface of upgrading firmware as shown in Fig.4.

Fig. 4

5) In "Port Name", choose the appropriate serial COM port.

6) In "Baud Rate", choose appropriate baud rate setting. If error encountered during downloading process, please change baud rate setting with lower transmission rate.

7) Tick "RS232", because the RS232 cable is connected.

8) Click [Browse], choose the file (format of *.bin or *.dat) to download.

9) Tick "Scan button is required to be pressed when power up" as shown in Fig. 4.

10) Then click "Upgrade" to start the firmware upgrading process. After successfully upgrading, "Update Successfully." will be displayed, and the scanner will restart at the meantime.

4.2 Method 2

Steps of Method 2 are following:

1) Connect scanner, USB cable as shown in Fig. 5.

Connect to USB port of PC

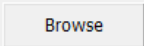**Fig. 5 USB cable connection**

2) Press **SCAN** button and plug in a USB cable into a USB port of PC.

3) Double click **Flash Utility.exe** to bring up the interface of upgrading firmware as shown in Fig.6.

Fig. 6

4) Tick "USB", because the USB cable is connected.

5) Click [Browse] to choose the file（format of *.bin or *.dat） to download.

6) Tick "Scan button is required to be pressed when power up" as shown in Fig. 6.

7) Then click "Upgrade" to start the firmware upgrading process. After successfully upgrading, "Update Successfully." will be displayed, and the scanner will restart at the meantime.

4.3 Method 3

Steps of Method 3 are following:

1) Connect scanner, RS232 cable and adapter as shown in Fig. 2.

2) Plug in a RS232 cable into a free serial COM port (COM1~COM4) of PC, then connect the 5VDC adaptor power lead with the electrical source.

   Note: Do not press the SCAN button when the scanner power on.

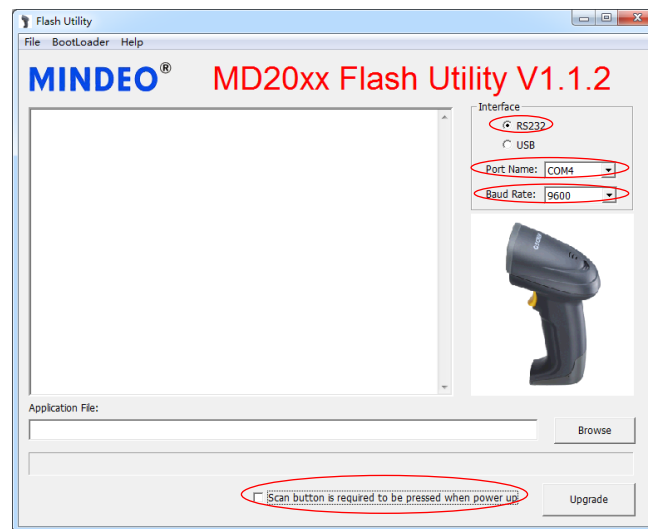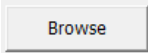3) Double click **Flash Utility.exe** to bring up the interface of upgrading firmware as shown in Fig.7.

Fig. 7

4) In "Port Name", choose the appropriate serial COM port.

5) In "Baud Rate", choose appropriate baud rate setting. If error encountered during downloading process, please change baud rate setting with lower transmission rate.

6) Tick "RS232" , because the RS232 cable is connected.

7) Click [Browse] to choose the file(format of *.bin or *.dat) to download as shown in Fig. 7.

10) Click "Upgrade", start the firmware upgrading process. After successfully upgrading, "Update Successfully." will be displayed, and the scanner will restart at the meantime.

Note: Scanner's parameter will be restored as factory default, after upgrading firmware with this method!

5. Afterwards

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%%%DEF

WARNING: Load default setting

If you wish to return the scanner to all the factory default settings, scan the barcode above.

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%%%VER

Firmware version list

Please scan the barcode above to check the current firmware version.