

# KBM

# User's Manual

## Index

Chapter 1 About KBM (Keyboard & Mouse control Tools )	3
Chapter 2 Software requirements / Using Winsock port	3
Chapter 3 Installations Guide	4
Chapter 4 Install R-Box driver	5
Chapter 5 DBS system with R-Box Connection	8
Chapter 6 KBM-Master installation	9
6-1 Teacher PC installation for Windows Xp	9
6-2 Setting KBM-Master connection Com port	12
6-3 Student PC installation	15
Chapter 7 KBM control operation	19
Chapter 8 Backup Student ID	20
Chapter 9. Uninstall the R-Box driver	25

## Chapter 1 About KBM (Keyboard & Mouse control Tools )

**KBM** ( Keyboard & Mouse control Tools ) is for DBS/ MBS system to control P/S2 and USB keyboard and mouse. The firmware combines software and hardware, improves the functions of DBS/ MBS system.

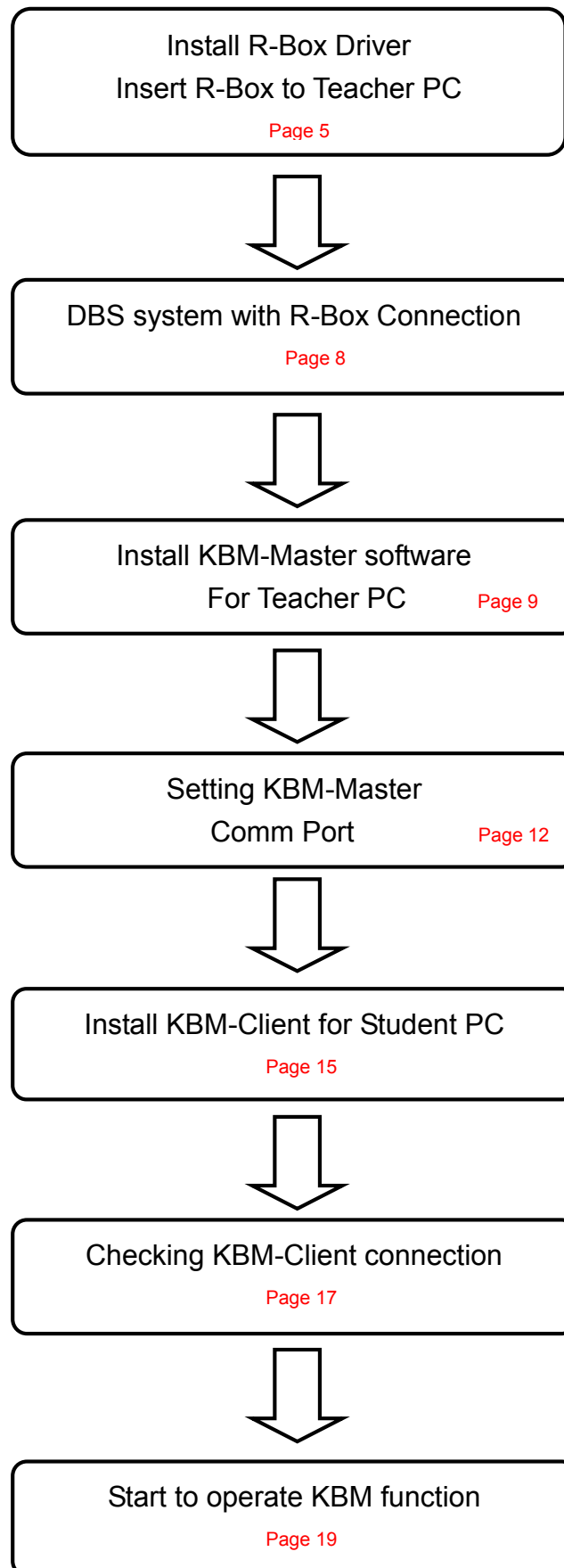


## Chapter 2 Software requirements / Using Winsock port

- (1)RAM 128MB or up
- (2)Windows 98SE / ME / 2000 / XP/2003 /Vista
- (3)KBM-control uses Winsock port 1618, 1620, 1621, 1622, 1623  
(P.S.: please open the 5 port when the PC has installed firewall)
  - 1618 --TCP (for student and teacher connection and KBM interior data achievement)
  - 1620 --UDP (pair with 1621, for DBS/ MBS communication)
  - 1621 --UDP
  - 1622 --UDP (pair with 1623, for teacher to send files to students)
  - 1623 --UDP

(4)Please temporarily turn off firewall or add KBM software to white list before installing.  
Please ignore the possible warning for software control component while installing.

## Chapter 3 Installations Guide



## Chapter 4 Install R-Box driver

### System require:

- \_ Windows 98, Windows Me, Windows 2000, Windows XP and Windows Vista
- \_ AMD or Intel Pentium133MHz and up
- \_ USB 1.1 or up
- \_ RS-232 PORT

### Installation for Windows XP / Vista

Insert the driver CD-ROM, or go to [http://www.sinew.com.tw/e\\_download.html](http://www.sinew.com.tw/e_download.html)

Download R-box driver for Windows XP or Vista version



PL-2303 Driver Installer.exe  
Prolific Technology Inc

1. Run the program
2. The InstallShield Wizard shows as below, please click “Next” to continue.



3. Installation completed, click to finish.



4. Please re-start PC after installation finished.

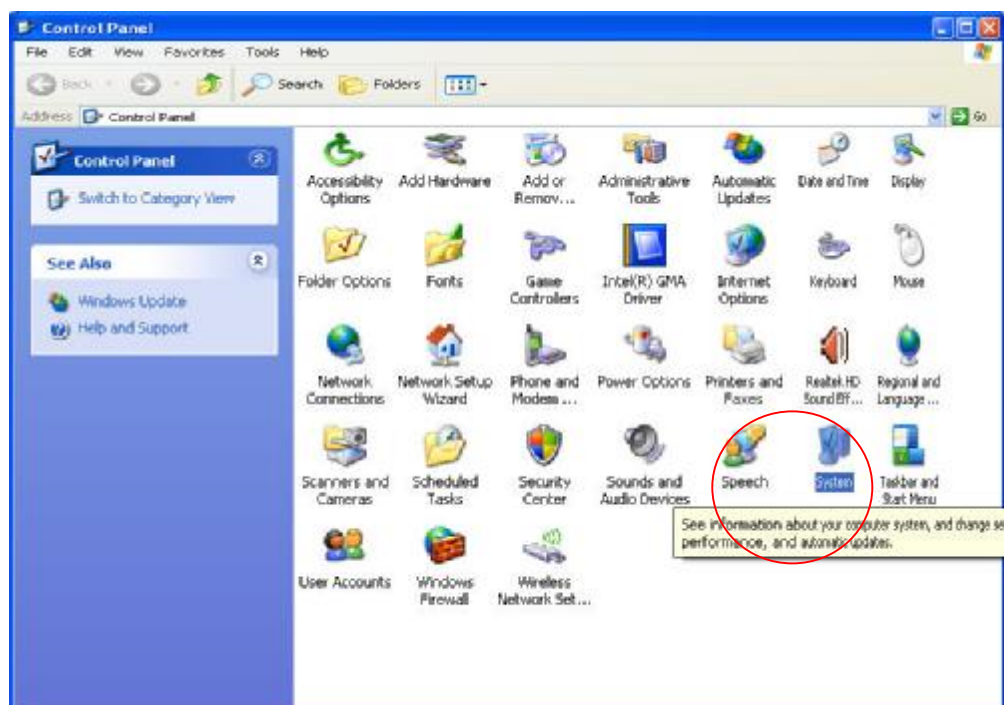
5. Please connect R-Box USB cable to USB port of teacher PC.

When you use USB cable, the Com port setting should be the same as the PC Com port.

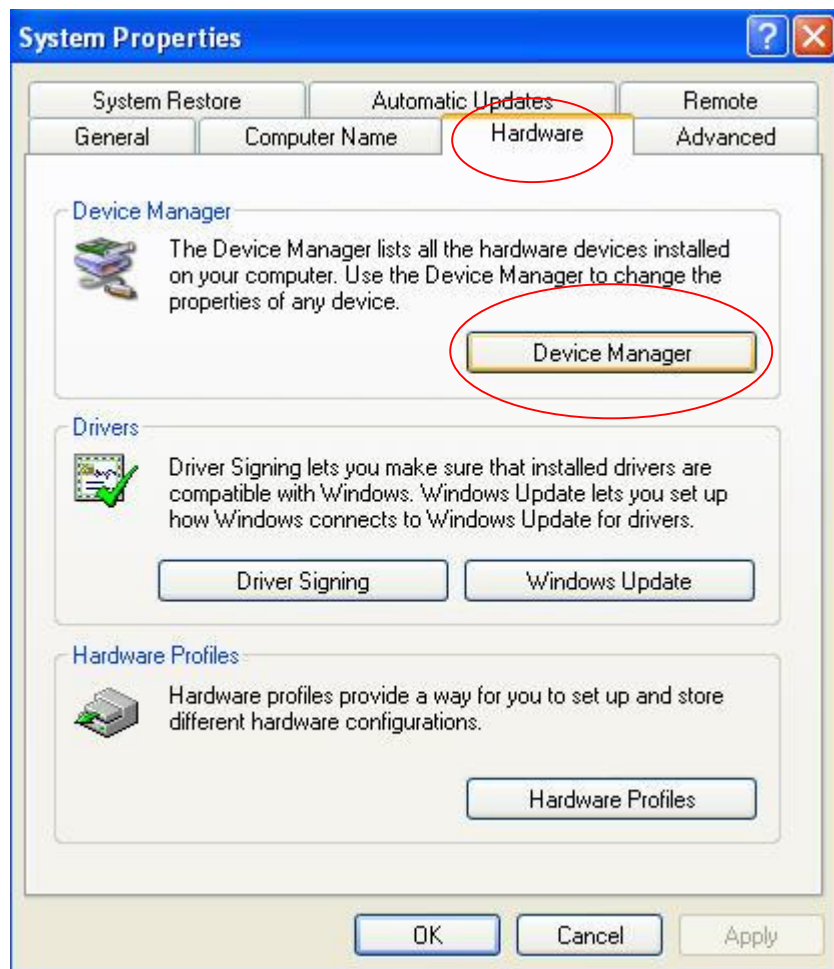
As the picture shows:

1. Control Panel → System → Hardware → Device Manager

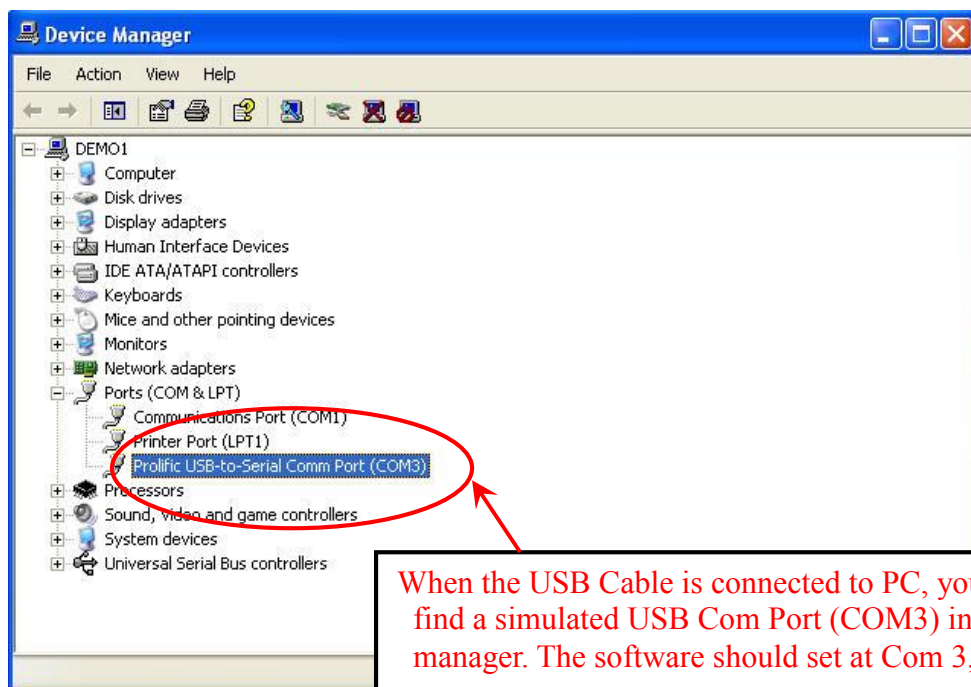
■ Control Panel → System



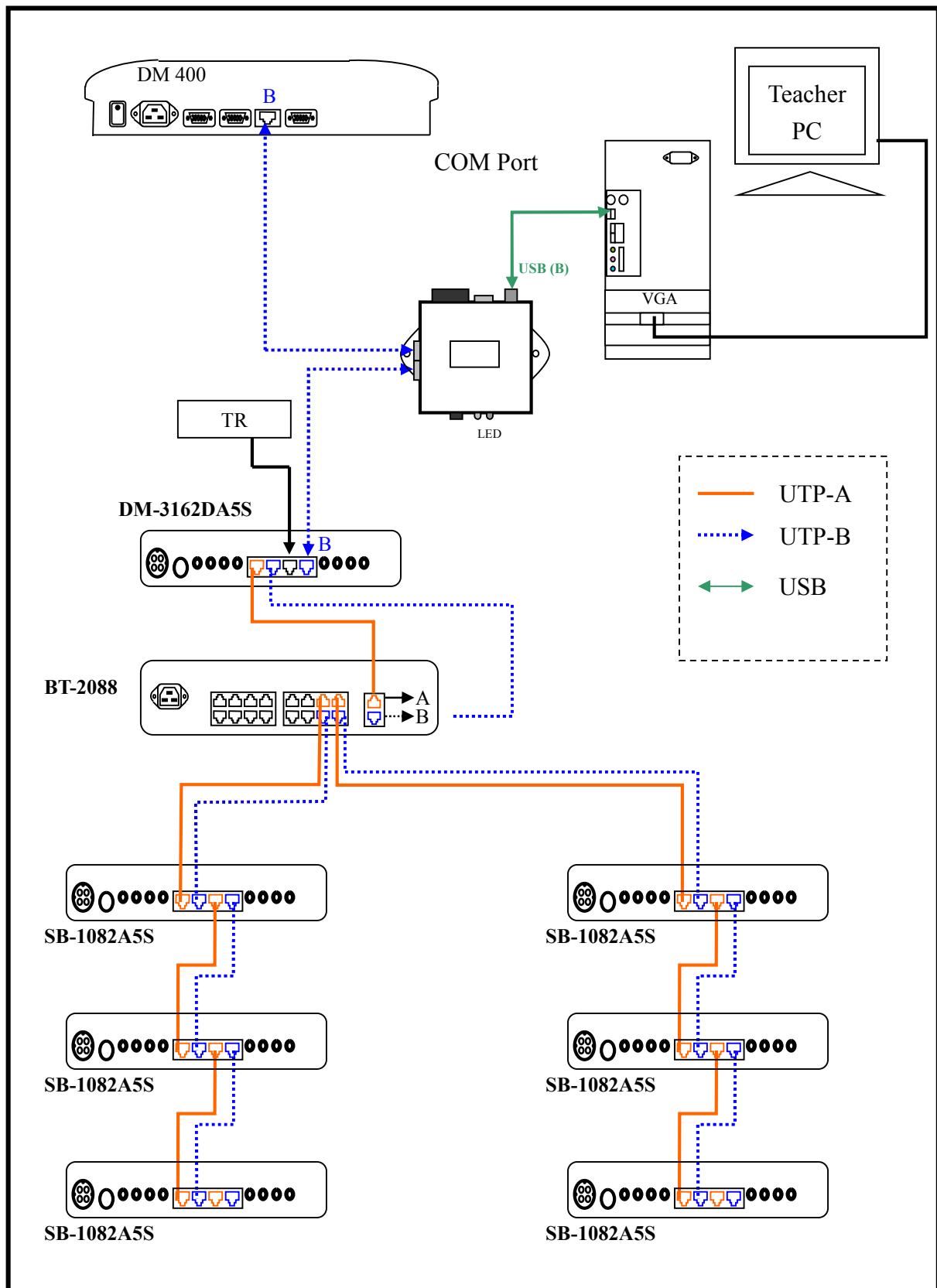
## ■ System → Hardware



## ■ Hardware → Device Manager



## Chapter 5 DBS system with R-Box Connection

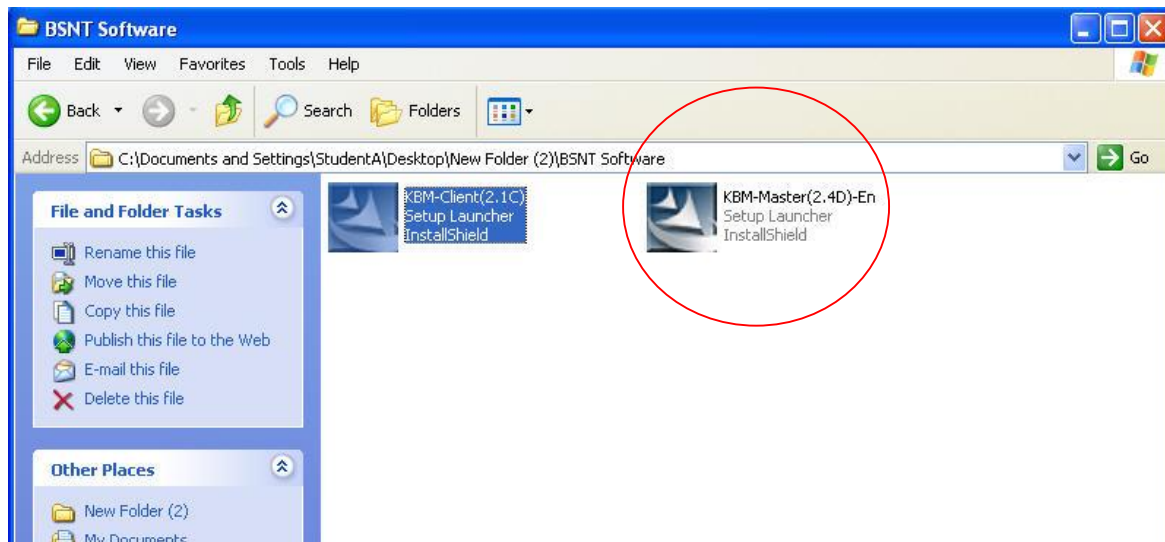




## Chapter 6 KBM-Master installation

### 6-1 Teacher PC installation for Windows Xp

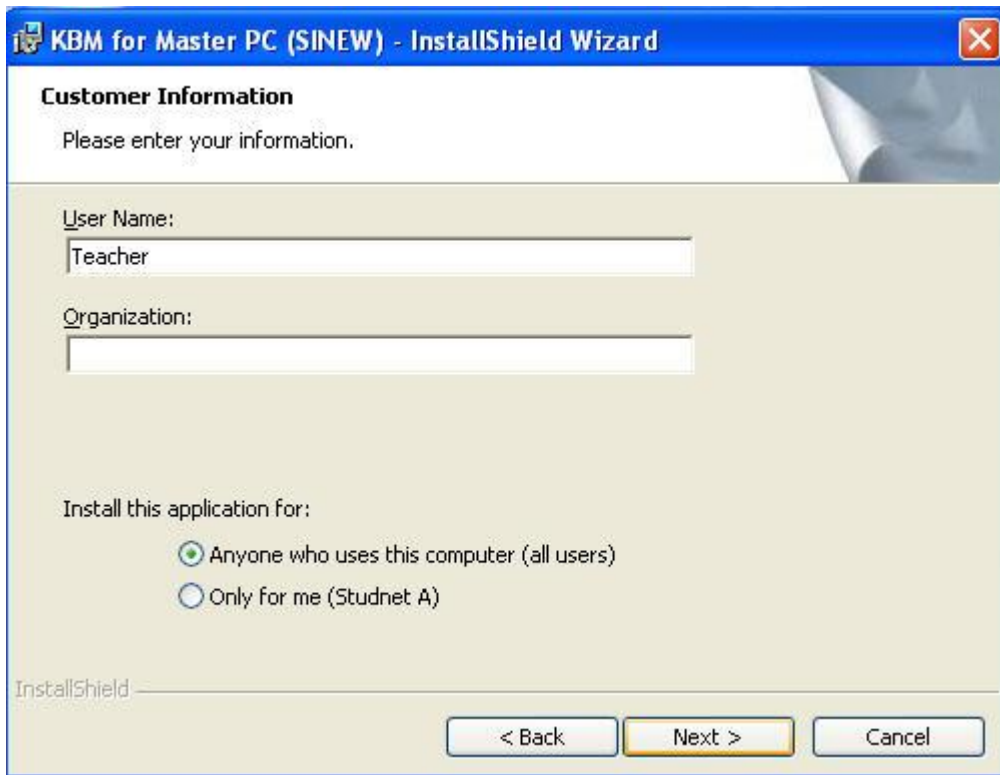
(1) Install CD-ROM files “KBM-Master (2.4D)-En.exe”



(2) Welcome page for installation



(3) Choose one or all users to install this program



**KBM for Master PC (SINEW) - InstallShield Wizard**

**Customer Information**  
Please enter your information.

User Name:

Organization:

Install this application for:

☒ Anyone who uses this computer (all users)

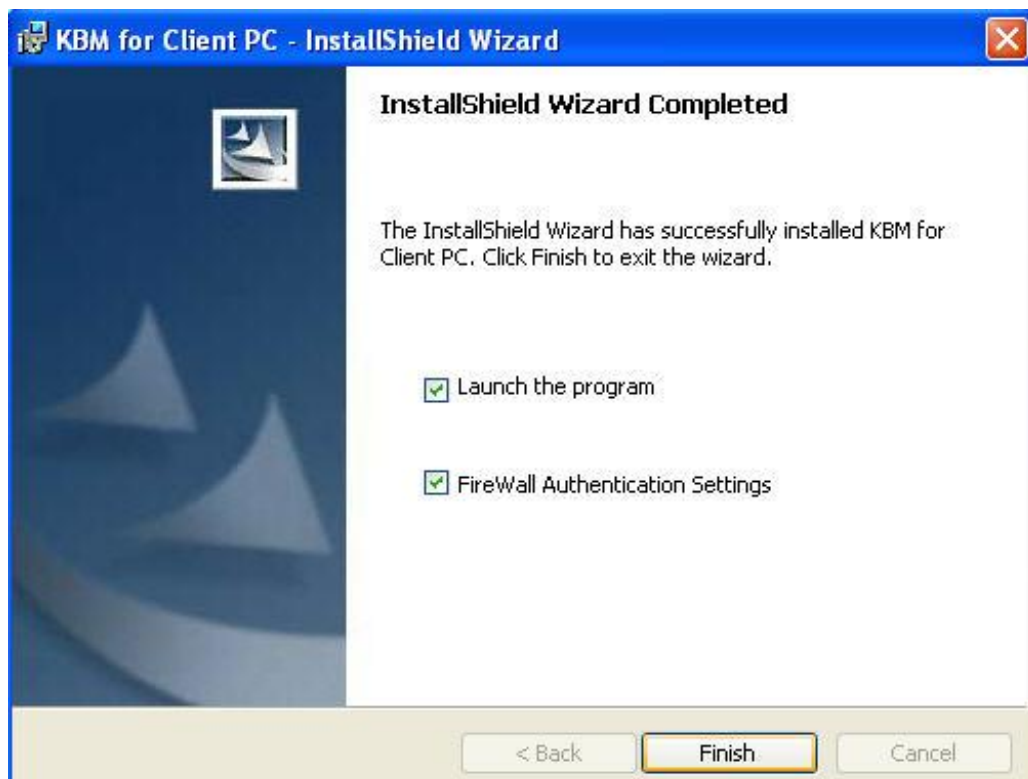
☐ Only for me (Studnet A)

InstallShield

< Back   Next >   Cancel

(4) Auto-run the KBM program after installation

FireWall Authentication Setting(Windows XP SP2 Firewall setting)



**KBM for Client PC - InstallShield Wizard**

**InstallShield Wizard Completed**

The InstallShield Wizard has successfully installed KBM for Client PC. Click Finish to exit the wizard.

☒ Launch the program

☒ FireWall Authentication Settings

< Back   Finish   Cancel

(5) The setup page for teacher

**Option**

**PC-Information**

**NAME** demo1 **IP** 0.0.0.0

**MAC** 001FD0363F42

**Language mode**

☒ English

**Execution mode**

☒ **Master**

**Master**

Master BoxID 250 **Ok**

☐ DBS system ☐ MBS system

☒ **DBS (White)**

Password \*\*\*\*\*

**The default password is 12345678**

(6) The icon will appear at the tool bar when installation is done successfully.

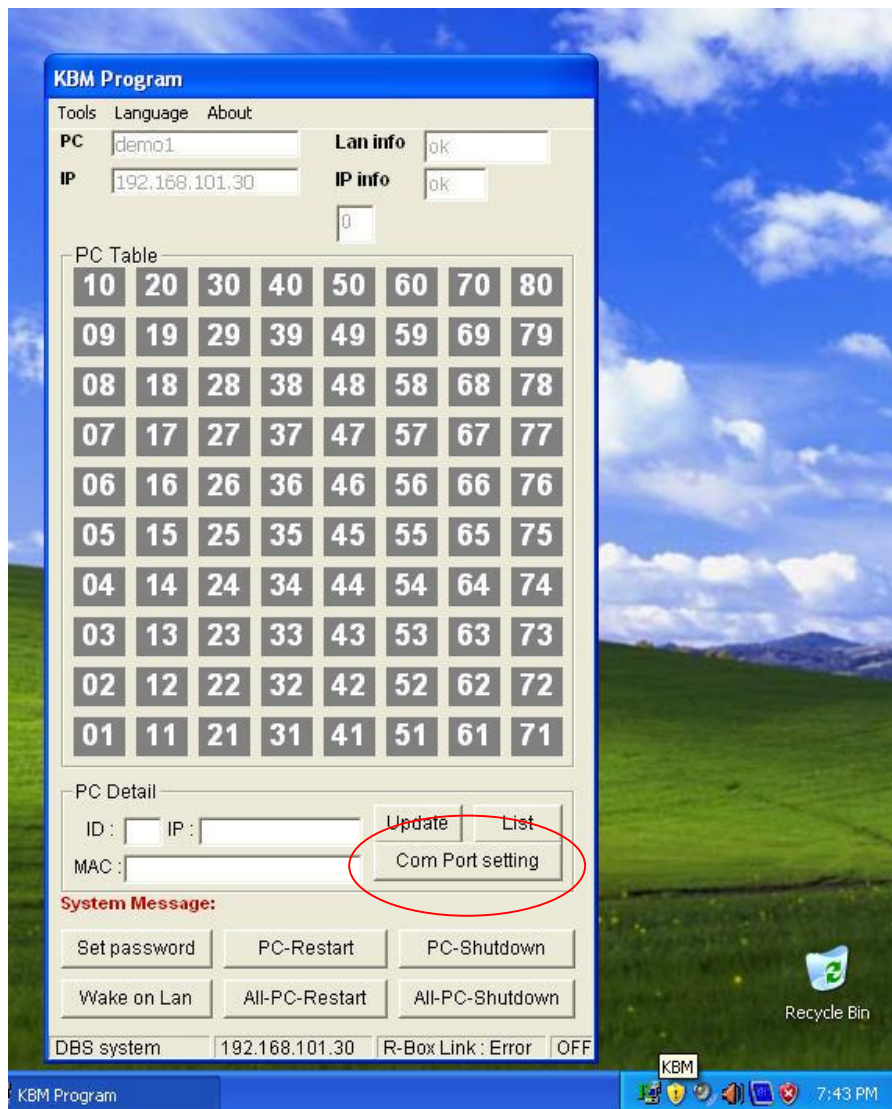


## 6-2 Setting KBM-Master connection Com port

(1)Click Tool bar to open KBM-Master program.

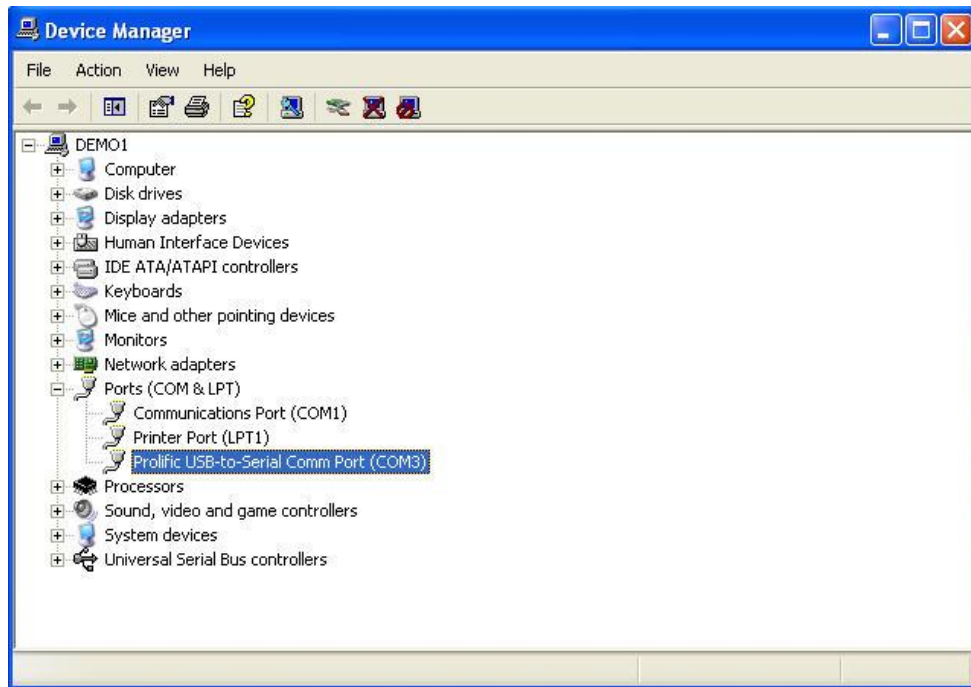


(2)KBM Program: Choose Com Port Setting and set Com port.

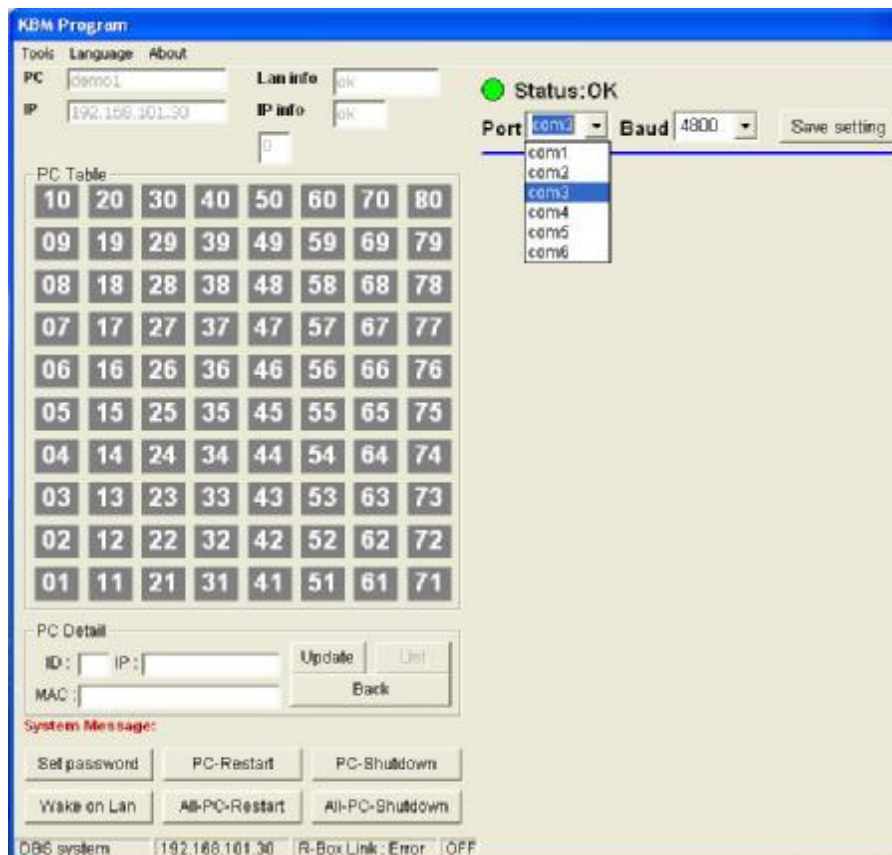


(3) Confirm R-Box Com port is added from Device Manager of Teacher PC

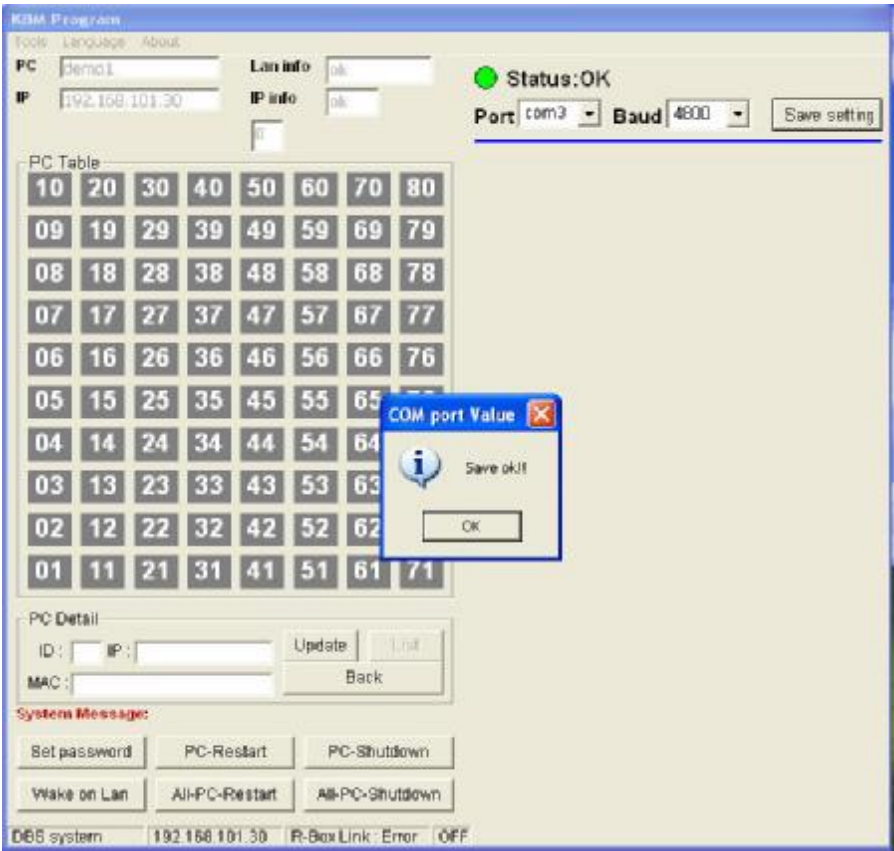
Start → Control Panel → System → Hardware → Device Manager



(4) Choose Com Port Setting from KBM program. Then select R-Box Com port. It will show green light which means status is OK if selected correctly.



(5) Save the setting of Com port: Press Save Setting.





## 6-3 Student PC installation

(1) Install CD-ROM files “KBM-Client (2.1C)-En.exe”

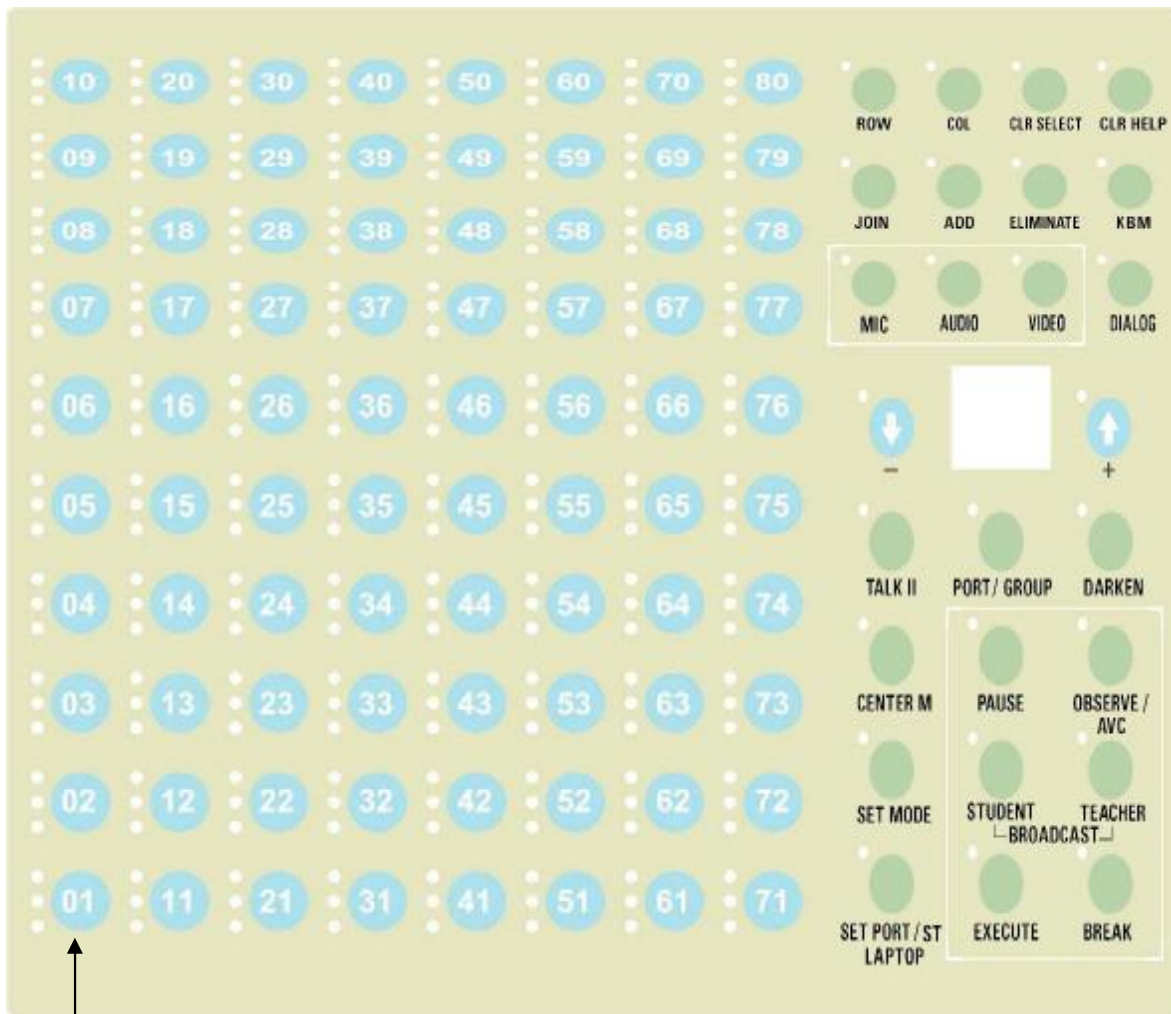


(2) Installation steps are the same as teacher's

(3) The setup page for student.

Notice: Please make sure the Slave Box ID and Master PC (Teacher PC) IP Address is correct.  
Slave Box ID input: Please input ID as following list.

## DBS Panel ID and KBM Slave ID Comparison



Panel / ID
01 / 0

For Example: DBS Panel Student ID **01**, KBM-Client Slave Box ID input **0**.

Teacher ID: 250							
Panel/ID	Panel/ID	Panel/ID	Panel/ID	Panel/ID	Panel/ID	Panel/ID	Panel/ID
10 / 9	20 / 19	30 / 29	40 / 39	50 / 49	60 / 59	70 / 69	80 / 79
09 / 8	19 / 18	29 / 28	39 / 38	49 / 48	59 / 58	69 / 68	79 / 78
08 / 7	18 / 17	28 / 27	38 / 37	48 / 47	58 / 57	68 / 67	78 / 77
07 / 6	17 / 16	27 / 26	37 / 36	47 / 46	57 / 56	67 / 66	77 / 76
06 / 5	16 / 15	26 / 25	36 / 35	46 / 45	56 / 55	66 / 65	76 / 75
05 / 4	15 / 14	25 / 24	35 / 34	45 / 44	55 / 54	65 / 64	75 / 74
04 / 3	14 / 13	24 / 23	34 / 33	44 / 43	54 / 53	64 / 63	74 / 73
03 / 2	13 / 12	23 / 22	33 / 32	43 / 42	53 / 52	63 / 62	73 / 72
01 / 1	12 / 11	22 / 21	32 / 31	42 / 41	52 / 51	62 / 61	72 / 71
01 / 0	11 / 10	21 / 20	31 / 30	41 / 40	51 / 50	61 / 60	71 / 70



PS: when you click “Recovery”, the client will automatically refresh ID according to C:\BSNT\id.ini contents. (This is for recovery card environment, such as Rembo card or branded recovery cards.)

The 'Option' dialog box contains the following sections:

- PC-Information**: NAME (dragon-nb), IP (192.168.101.10), MAC (000802D59D51), and a checked **Recovery** checkbox.
- Language mode**: Radio buttons for English (selected) and Chinese.
- Execution mode**: Radio buttons for Slave (selected) and Master.
- Slave Unit**: Slave BOX ID (10) and Master PC (192.168.101.88). An 'Ok' button is present.

(4) The icon will appear at the tool bar when installation is done successfully.



(5) This image shows the normal connection with Master (Connecting)

PS: 1. “ID” is the Master ID value.

2. Mode =1 means the “Recovery” mode is valid, and you must copy the id.ini to the directory C:\BSNT
3. Mode=0 means normal mode
4. Lan Info =ok means the LAN card is normal
5. IP Info =ok means the client has IP address (LAN cable is well-connected)

The 'KBM Program' window displays the following information:

- Tools** | **Language** | **About**
- PC**: dragon-nb
- IP**: 192.168.101.10
- ID**: 10 | **Mode**: 1
- Lan info**: ok
- IP info**: ok
- Master PC**: 192.168.101.88
- Server-ok**: 192.168.101.88 , time <= 0ms
- Audio**: ok | ☐ Mute
- Status bar**: Connecting | 000802D59D51 | 2006-10-31 10:59:21 | OFF

Note: After installing KBM-Client 2.1C for student PC successfully, the status “Connecting” will shows up to indicate the connection between KBM and Master side is OK.

(6) This image will show when the client's LAN cable is pulled out, (IP info: error)



(7) This image will show when the client's networks is stopped, (Lan info: error)



## Chapter 7 KBM control operation

KBM Control support 3-directions remote control function: teacher to student, student to teacher, and student to student.

### [ Teacher to student ]

Press selected **"STUDENT ID"** → **"OBSERVE"** → **"KBM"**

### [ Student to Teacher ]

**"TEACHER"** → Press selected **"student ID"** → **"KBM"**

### [ Student to Student]

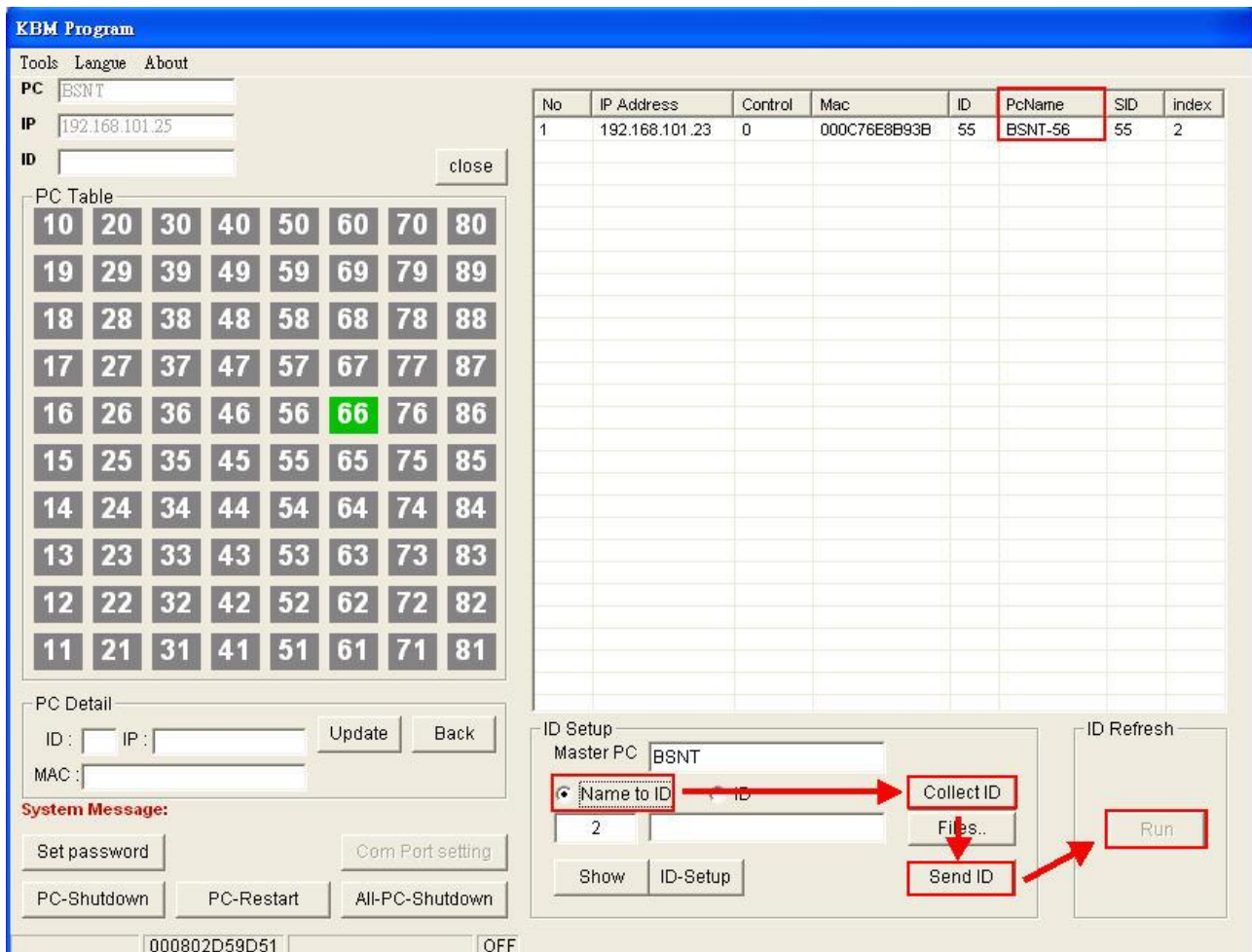
Press selected **student ID** → **"STUDENT"** → **"EXECUTE"** → Press selected **STUDENT ID** → **"KBM"**

**Notice: There will be a green light glittering to show which student was selected when pressing "STUDENT ID".**



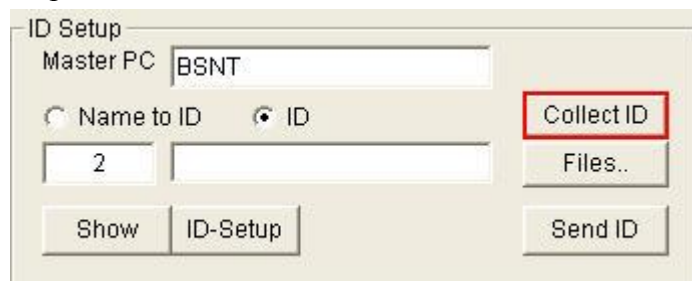
(2) PCName to ID: When the student PC is named according to DBS/ MBS panel numbers; for example ClassA-11.

Steps: from the ID Setup mean, select “Name to ID”, and click “Collect ID” to create the id.ini file. Click “Send ID” to send the “id.ini” file to all the students’ c:\ share. After 5 seconds, click “Run” to update students ID.



(3) ID: Reserve the current students ID

Steps: click “Collect ID” to create id.ini file, save this file.



(4) Files : use file mode (when O/S is re-installed).

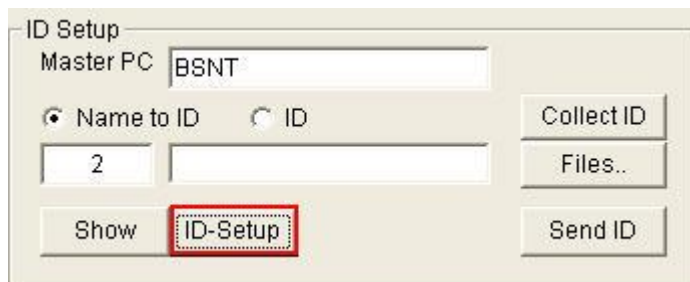
Steps: browse id.ini file, click “Send ID” to send the “id.ini” file to all the students’ c:\ share. After 5 seconds, click “Run” to update students ID.



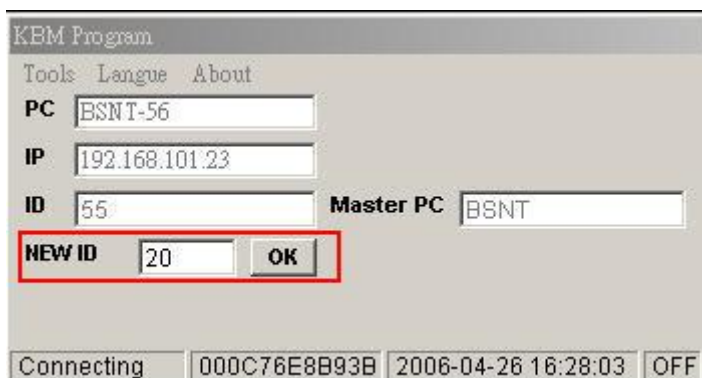
(5) ID Setup: open the student ID setup mode

Steps: Click ID-Setup to open the mode. Click again to stop it. It will create the id.ini file. Click Send ID to send "id.ini" file to all the students' c:\ share. After 5 seconds, click "Run" to update the students' ID.

1. Open the setup mode of student ID

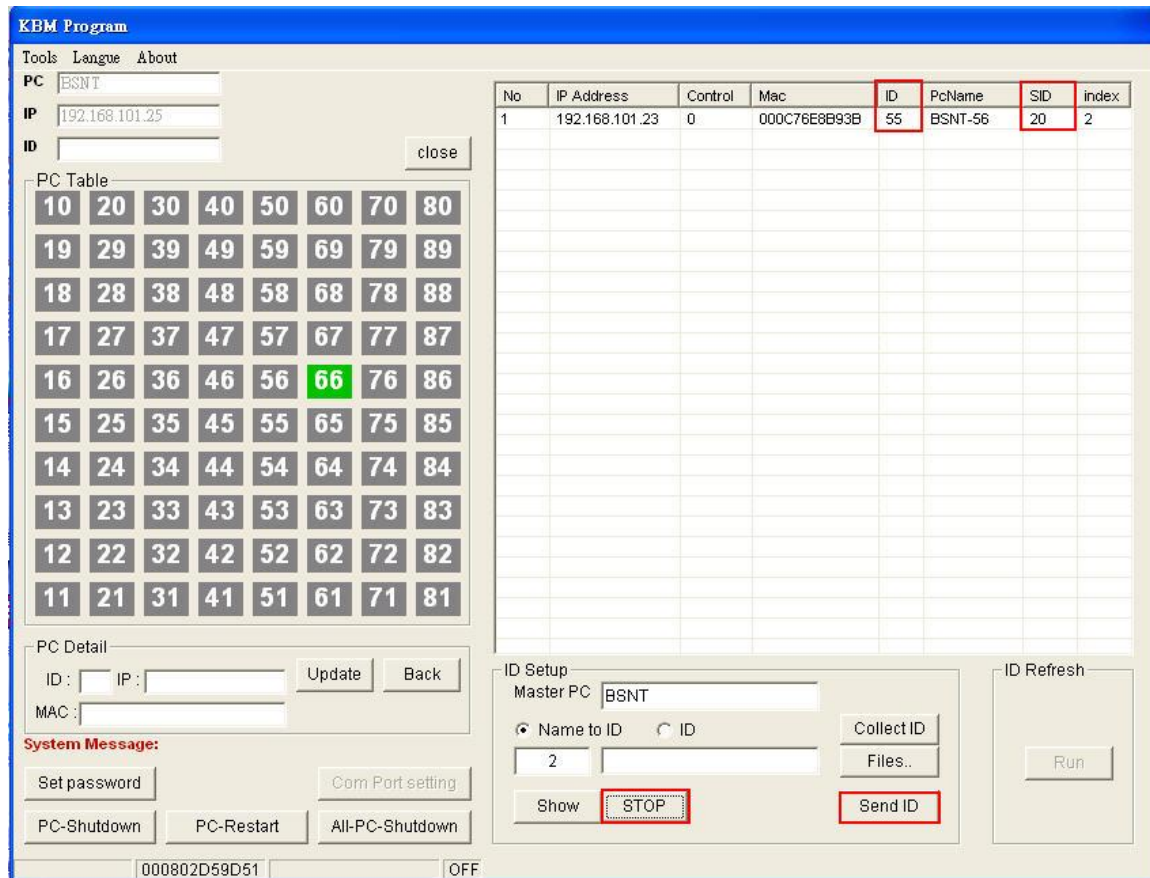


2. Click "NEW ID", to insert the number on MBS/ DBS teacher panel, and click "OK" to send the data back to teacher.





3. click “STOP” to create “id.ini” file, click “Send ID” to send it to all the students’ c:\ share .  
After 5 seconds, click “ Run” to update the students’ ID.



## (II) Other functions

List: Show student ID and setup mode.

Set password : change password mode (for all the on-line students).

Com port setting: setup the teacher unit and PC Com port.

PC-Shutdown: Shutdown the selected PC.

PC-Restart: Restart the on-line PC.

All-PC-Shutdown: Shutdown all the on-line PC.

The screenshot shows a web interface with a 'PC Detail' section containing input fields for ID, IP, and MAC, along with 'Update' and 'List' buttons. Below this is a 'System Message:' section with five buttons: 'Set password', 'Com Port setting', 'PC-Shutdown', 'PC-Restart', and 'All-PC-Shutdown'.

PC Detail

ID :  IP :  Update

MAC :

**System Message:**



## Chapter 9. Uninstall the R-Box driver

This USB driver is easy to uninstall.

You have 3 ways to uninstall it:

By re-install the PL-2303 Driver Installer.exe file.

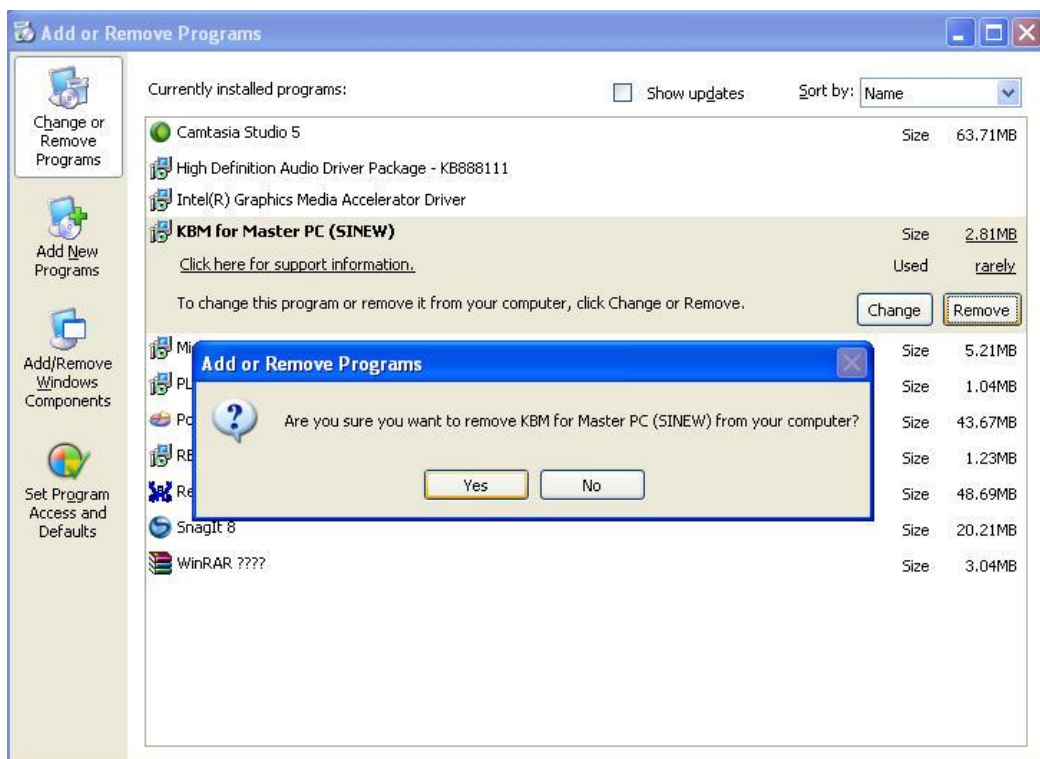
By going to Start → Program files → PL-2303 USB-Serial Driver → Uninstaller

Control Panel → Add or Remove program → PL-2303 USB-to-Serial



PL-2303 Driver Installer.exe  
Prolific Technology Inc

1. Please execute the program
  2. The InstallShield Wizard will instruct you to re-install (upgrade), remove the driver or quit.
- Click “Remove the driver” to continue.



2. The InstallShield Wizard will instruct you to restart Windows.  
Click “Finish” to restart.

