User Manual

Attentions



- JL-V2 should be charged for about 2 hours before first-use. Please charge it when in low battery.
 JL-V2 can keep normal operation continuously for about 7 hours, and with the stand-by time of about 150 hours (The charger indicator is red while charging and it turns green after full charged.).
- 8 Teacher's JL-V2 or Student's JL-V2 can be charged simultaneously by using 8-port charger.
- Power Supply: 3.6V, 3 Ni-MH batteries (AAA 1.5V batteries are also available).



- IPBOARD Vote Edition V2.0 is required to be installed before operation. Ensure that V4.0 driver is well connected.
- The network ID of transceiver is supposed to be compatible with that said on the label stuck on the back of JL-V2, or the driver may fail in connection.
- JL-V2 includes 7 models as follows: JL-V2 (08/16/24/32/64/128/256). The transceiver available for JL-V2 (64) is different from that for JL-V2 (128) and JL-V2 (256), and they are not allowed to be used interchangeably.



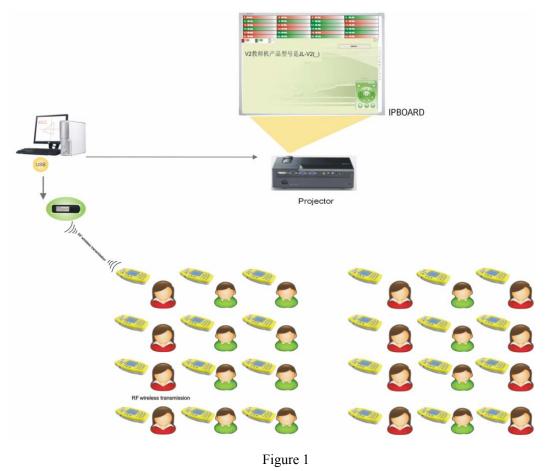
- JL-V2 defaults to auto-sleep mode. It will access to sleep mode and the backlight of LCD screen will be off automatically without any operation in 9 minutes.
- Users can press **Menu** to wake up JL-V2. Besides, users can select whether access to sleep mode manually in connectivity status with **Menu**.

Content

Attenti	ons	1
Conten	nt	2
I Brie	ef Introduction	3
II Unp	packing JL-V2 Suite	4
1 JL-V	2	4
2 Stand	lard Accessories	5
III Inst	allation of IPBOARD Vote Edition V2.0	7
IV Run	the Software14	4
1 Start	IPBOARD Vote Edition Driver	4
2 Start	IPBOARD Vote Edition14	4
3 Start	voting system 14	4
V Fea	tures of JL-V2 in-class Response System10	6
1 Set	Questions	3
2 Que	estion Management 1	7
3 Con	mbined with JL-V2 response system to answer questions interactively	3
4 Stat	tistics	9
VI Per	formance Specifications	D

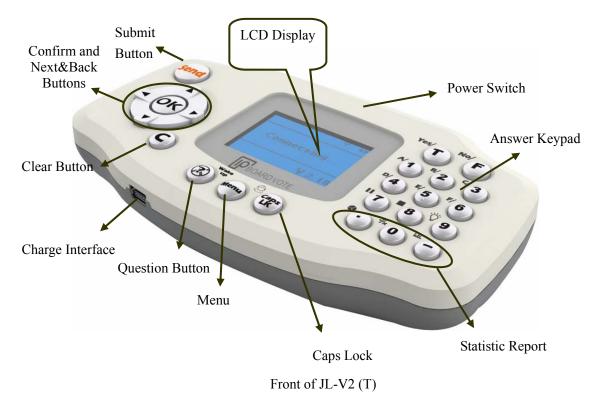
I Brief Introduction

The in-class response system is very suitable for classroom training, creating a teaching system integrated with in-class assessment, feedback and interaction. The response system consists of IPBOARD Vote Edition V2.0 software, Teacher's JL-V2 [JL-V2 (T)], Student's JL-V2 [JL-V2 (S)] and transceiver [JL-V2 (I)]. With JL-V2, students can answer questions instantly and teachers can gain instant feedback visually. It is designed for modern interactive teaching, aiming at enabling teachers and students to be more engaged and interactive in class as well as enhancing teaching methodology. The interactive effect is shown as Figure 1:

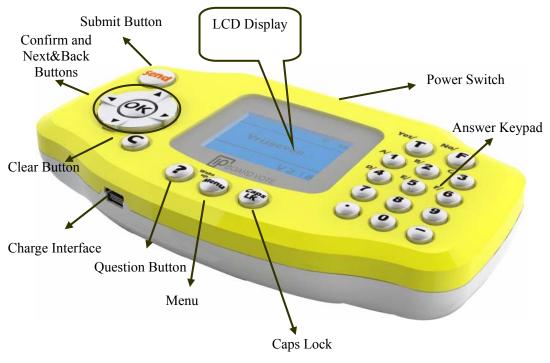


II Unpacking JL-V2 Suite

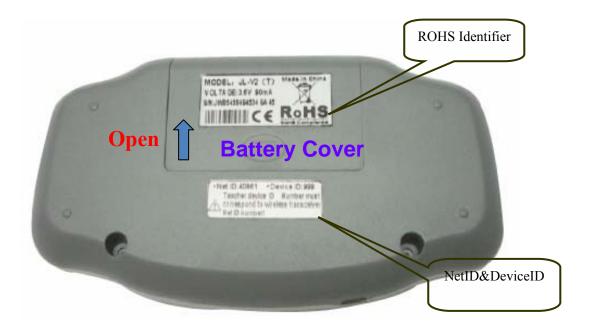
1 JL-V2



- > Users can select whether access to sleep mode using the next/back keys on the **Menu**.
- Statistic Area is set on the JL-V2 (T), which enables teachers to check scores, true/false report and right answers easily; and statistic reports are displayed in the form of bar chart.



Front of JL-V2 (S)



Back of JL-V2

- NetID, which is designed to build the network channel between transceiver and JL-V2, has been set ex factory. To ensure successful connection, NetID is supposed to be compatible with that said on the label stuck on the back of JL-V2.
- Device ID, which is used for identifying different terminals, is supposed to be corresponding to student's number. The device ID of JL-V2 (T) is a fixed value of 999.

2 Standard Accessories





Standard Accessories include:

Description	Quantity	Function	Figure
Transceiver	1	Ensure that the computer	PAN 91CB Robert Ter PAR number of receiver
(1-to-64)		connect with JL-V2	What do corresponding to har Mar number of writing to be
		(8/16/24/32/64)	
Transceiver	1	Used together with JL-V2	
(1-to-128)/		(128), the appearance of	
Transceiver		Student's JL-V2 (128) is the	•
(1-to-256)		same with that of Student's	(Fboure voit
		JL-V2 (256). Transceiver	
		(1-to-128) and Transceiver	
		(1-to-256) are not allowed to	
		be used interchangeably.	
IPBOARD Vote	1	JL-V2 driver and	IPBOARD Software
Edition Disc		applications	die
JL-V2 User	1	Operation introduction	IPBOARD
Manual			JL-V2 JL-V2 In-class Response System USER GUIDE
8-port Charger	1	Charge 8 JL-V2 (T) or JL-V2 (S) simultaneously	

III Installation of IPBOARD Vote Edition V2.0

- 4.1 Insert IPBOARD Vote Edition disc
- 4.2 Click the program icon



4.3 Access to setup wizard window. As shown in Figure 2:

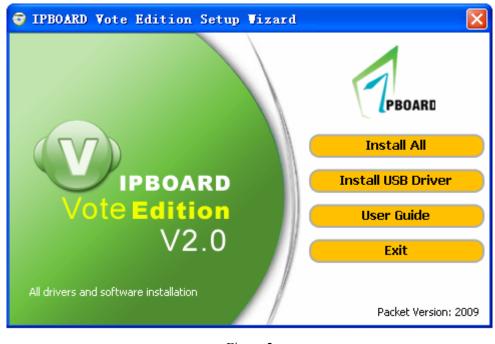


Figure 2

4.4 Click Install All to install IPBOARD Vote Edition and driver.

4.5 Start the installation. As shown in Figure 3:

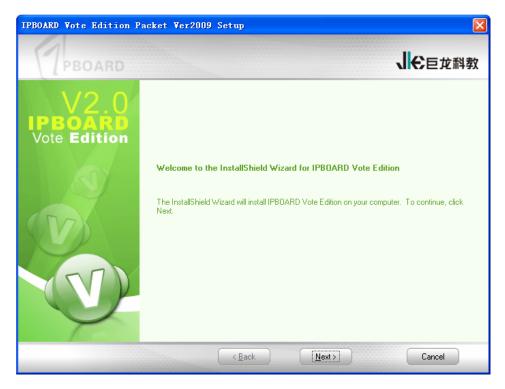


Figure 3

4.6 Select the language you want to install. As shown in Figure 4:

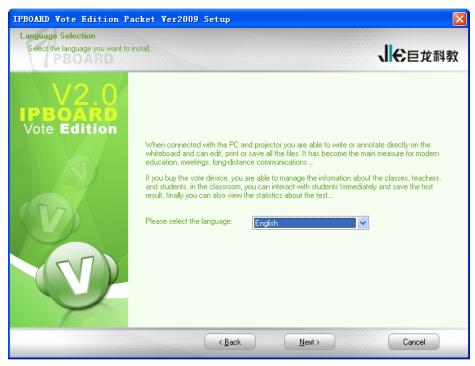


Figure 4

4.7 Choose destination location. As shown in Figure 5:

IPBOARD Vote Edition Packet Ver2009 Setup	
Choose Destination Location Select folder where setup will install files.	↓€巨龙科教
V2.0 Install IPB0ARD Vote Edition to: C:NPB0ARD Vote EditionV2.0	<u>C</u> hange
< Back Next>	Cancel

Figure 5

4.8 Select the database you want to install. As shown in Figure 6:

Database Selection			
Select the database you want to install.			€巨龙科教
TIBOAND			
$V \angle . U$	-DataBase Type		
Vote Edition	Please select which type of	database you want to install.	
Vote Edition	Microsoft Access	C Microsoft SQL Server	
	SQL Server		
	Please key in the info about t	ne SQL Server	
	Server(<u>S</u>):	(local)	
X	Username(<u>U)</u> :		
	D		
∇	Password(<u>P</u>):		
	DataBase(D):		
P			

Figure 6

4.9 Select the setup type to install. As shown in Figure 7:

IPBOARD Vote Edition Pa	cket Ver2009 Setup	
Setup Type Select the setup type to install.	1 C e	龙科教
V2.0	Please select a setup type.	
Vote Edition	Complete All program features will be installed. (Requires the most disk space.)	
	C Custom Select which program features you want installed. Recommended for adv users.	/anced
	< <u>₿</u> ack <u>N</u> ext > Canc	el

Figure 7

4.10 Complete installation. As shown in Figure 8:

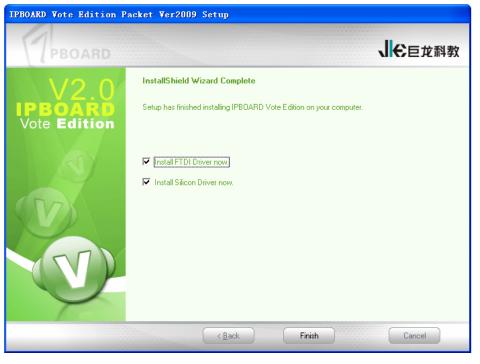


Figure 8

4.11 The USB driver installation prompt will be displayed after the software installation. FTDI USB driver will be installed by default firstly; and then the Silicon driver for IPBOARD Tablet (TB3124RDV) can be installed subsequently. As shown in Figure 9:

Install D	river 🛛
?	Wizard will install the FTDI USB Driver on your system, if you want to continue with the installation of the driver, click the "YES." Otherwise, click the "No." If you want to install Silicon driver, return to the installation wizard interface, click the "Install Step By Step ". In the pop-up window, click "Install USB driver", choose "Install Silicon Driver."
	Yes No

Figure 9

4.12 Complete the installation of FTDI driver. As shown in Figure 10:

USB Driv	ver 🔀
i)	Installation Successful! Please reconnect the device to a spare USB port on your PC, the system will continue to install the driver.

Figure 10

4.13 The dialog of Silicon driver installation wizard will appear. As shown in Figure 11 and Figure

12:

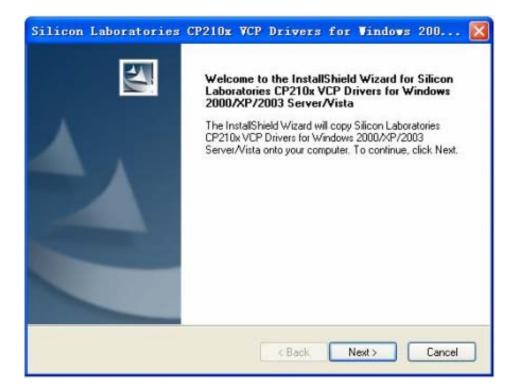


Figure 11

icense Agreement Please read the following license agreement carefully.	
END-USER LICENSE AGREEMENT IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS THIS PRODUCT CONTAINS CERTAIN COMPUTER PROGRAMS AN	
PARTY PROPRIETARY MATERIAL ("LICENSED PRODUCT"), THE I SUBJECT TO THIS END-USER LICENSE AGREEMENT. INDICATINI AGREEMENT CONSTITUTES YOUR AND (IF APPLICABLE) YOUR O ASSENT TO AND ACCEPTANCE OF THIS END-USER LICENSE AGR "LICENSE" OR "AGREEMENT"). IF YOU DO NOT AGREE WITH AL TERMS, YOU MUST NOT USE THIS PRODUCT. WRITTEN APPRO	USE OF WHICH IS G YOUR COMPANY'S REEMENT (THE
 I accept the terms of the license agreement 	Print
I do not accept the terms of the license agreement	
all5hield	
< Back Nex	t> Cancel

Figure 12

4.14 Choose destination location. As shown in Figure 13:

Choose	Destination I	Carls and the second second	WCP Driv	vers for	Vindows 200	. [
	will install Silicon Mista in the follo	Laboratories CP21 wing folder.	I0x VCP Drive	rs for Windows	2000/XP/2003	
	all to this folder, r folder.	click Next. To inst	all to a differen	t folder, click E	trowse and select	
Devi	ination Folder					
Dest					Browse	
	Labs\MCU					Ĵ.

Figure 13

4.15 Start the installation. As shown in Figure 14:

Silicon Laboratories CP210x VCP Drivers for Vindows 200 🔀
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
nstallShield Kancel

Figure 14

4.16 Complete the installation of Silicon driver. As shown in Figure 15:



Figure 15

Click **Finish**, and the dialog as follows will pop up:

. Silicon Laboratories	
📆 Silicon Laboratories CP2	10x USB to UART Bridge
Installation	Driver Version 5.
C:\Program Files\Silabs\MCU\	CP2:0x\
1	

Click Install

, and then plug-in transceiver to complete the installation.

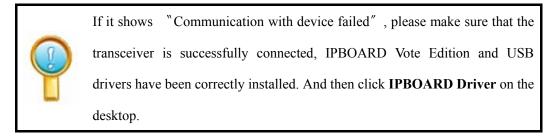


IV Run the Software

1 Start IPBOARD Vote Edition Driver

Click	"Start "	\rightarrow	" All	programs	"	÷	6	IPBOAR	D Vote Editi	on 🔸
→ वि	IPBOARD Vote Ed	lition 🔸	→ 🖬	IPBOARD V	ote Edition	n 🔸	to	run	IPBOARD	Vote

Edition driver. Then a tray icon is will be displayed in status bar on lower-right corner of the desktop.



2 Start IPBOARD Vote Edition

1)	Click	" Start "	\rightarrow	" All	prograi	ms ″ —	÷	🖬 IPEOARD Vote Edition 🔸	\rightarrow
6	IPBOARD	Vote Edition	▶ →	💼 IPB	DARD Vote	Edition	•	, then a login window will pop	up

as	snown	below.	

19 marca	$\sqrt{2}$
Vote Edition V2:	0
User Name:	
Password:	
Class:	•
Login	Exit

2) Users can click Login to access IPBOARD Vote Edition directly.

3 Start voting system





Figure 16

Key-in the administrator account to access voting system. The default administrator account is

Administrator and the password is julong.



to enter the system manage window as follows:

uick search :lass name:	Condition: Grad	de name:	Entrance:		Gradu	ation:		
	And 💌 All g	grade 💌	= •		=	•		Inquire
ass list	1	1		(] [Class infomation	۱	
lass name class A	Studen 7	Grade Grade one	Entrance 2009	Graduation 2014		Class name: Teacher of the		
						Students in the	e class:	
						Student No.	Name	Vote

3)For adding, modifying or setting the information in Class Management, Student Management, Teacher Management, Grade Management, Statistics Management and System Management, please see the help text of IPBOARD Vote Edition for details.

V Features of JL-V2 in-class Response System

Combining with IPBOARD Vote Edition V2.0, use JL-V2 to give and gain in-class feedback instantly and create modern interactive classroom.

1 Set Questions

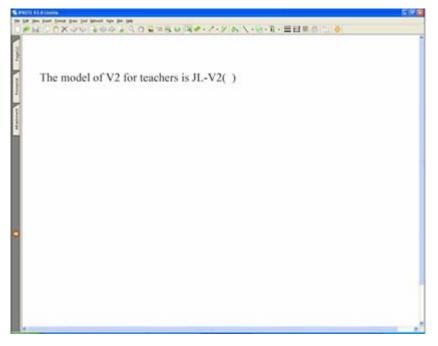
Click in the menu bar to vote. 8 different types of questions have been built in the IPBOARD Vote Edition, as shown below:

ype of question		
True or False	C Yes or No	Q
C Multiple Choice	C Multiple Answer	True
C Numeric	C Fill in/Completion	True
C Arrange Sequence	C Interval and Scope	False
ue or False		
For true or false questions answer.	, will have only "true" or "false" as the	

- Two methods are available for setting questions --- Guide to Set Questions and Advanced Question Setting. Use Guide to Set Questions to set questions as an example hereafter.
- > Users can set the difficulty and mark of questions as well as test time.

2 Question Management

After setting question, the window as shown below will appear:



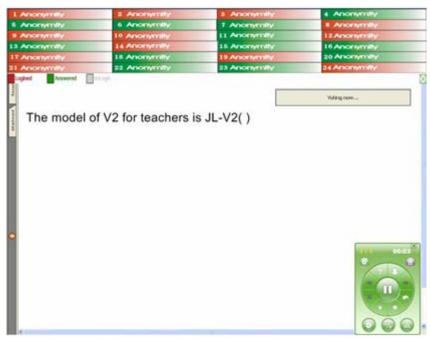
Fill in/Completion

- To enable easy management of test database for teachers, every set question can be added to the test database. And then teachers can search, modify and reuse questions easily, which provides an extremely convenient way for students to review lessons.
- To add questions to the test database, click Vote -> Add to Test Database -> Save Question, and then name and save test question.
- Click Vote -> Question Management to classify, import, export, delete and name test questions. See the help text of IPBOARD Vote Edition V2.0 for details.

3 Combined with JL-V2 response system to answer questions interactively

3.1 Using JL-V2 (S) to answer questions

Students can key in answers using **Answer Keypad** on the JL-V2 (S), and then click **OK** or **Send** to submit answers. To correct answers, key in and submit answers after clicking **C** button as follows (e.g., using 1-to-24 JL-V2 in-class response system to conduct test):



3.2 Click **Next** button to skip to next question and **Back** button to previous question. In addition, visual test results can be captured on JL-V2 (T) (displayed in the form of bar chart).

4 Statistics

Teachers can log on **Vote Manage** to view the detailed information of test results and scores, as shown below:

	Class Roster	Grade Distribution
班级名称:	Class A	Yt e
平均分:	90	9
总分:	150	7 B+ c+
学生人数:	24	4 Abernoe
试卷名称:	Test	
考试日期:	2009-09-21 15:32:14	

Answering Statistics of Students

		Score Repor	t		
Student No.	Name	Answered/Not answered	Correct/Incorrect	Score /Total	Grade
01	Lucy	0 / 30	0 / 30	0 / 150	Absence
02	Lily	30 / 0	23 / 7	115 / 150	В
03	Benny	30 / 0	26 / 4	130 / 150	A-
04	Emma	30 / 0	26 / 4	130 / 150	A-
05	Tony	30 / 0	23 / 7	115 / 150	В
06	Tom	30 / 0	22 / 8	110 / 150	B-
07	Jerk	30 / 0	23 / 7	115 / 150	В
08	Sum	0 / 30	0 / 30	0 / 150	Absence
09	Jin	30 / 0	24 / 6	120 / 150	B+
10	Joth	0 / 30	0 / 30	0 / 150	В-
11	EK	0 / 30	0 / 30	0 / 150	B-
12	Rose	30 / 0	22 / 8	110 / 150	B-
13	Susan	28 / 2	22 / 8	110 / 150	B-
14	Lee	0 / 30	0 / 30	0 / 150	Absence
15	Zhou	29 / 1	22 / 8	110 / 150	В-
16	Mike	30 / 0	23 / 7	115 / 150	В
18	Jame	28 / 2	21/9	105 / 150	B-
19	Sawyer	30 / 0	22 / 8	110 / 150	В-
20	Sayid	0 / 30	0 / 30	0 / 150	Absence
21	Sam	30 / 0	23 / 7	115 / 150	В
22	Jun	0 / 30	0 / 30	0 / 150	В
23	Caro	29 / 1	24 / 6	120 / 150	B+
24	Tommy	30 / 0	27 / 3	135 / 150	A

VI Performance Specifications

Content	Specification				
Dimension	133mm X 75mm				
Net Weight	230g (with battery)				
	Technical Specification				
LCD Display	128 X 64 lattice (with backlight)				
Transmission Frequency	2.4GHZ				
Transmitting Power	+2.5dBM				
Quantity of Channels	16				
Working Electricity	Max.: <85 mA; Sleep mode: <65 mA; Stand-by mode: <4mA,				
Working Voltage	DC 3.6V				
Power	Less than 0.4W				
Continuous operating hours	More than 9 hours				
Stand-by Time	More than 240 hours				
Power Supply	800mAH, 3 Ni-Mh batteries (AAA batteries are available)				
Working Environment	Temperature: -10℃~50℃				
	Relative Humidity: 30%~80% Non-condensing				
Storage Environment	Temperature: -25℃~70℃				
	Relative Humidity: 10%~90% Non-condensing				
Transmission Technology	Conforming to IEEE802.15.4 Standard				
Transmitting Speed	57600bps				
Charge Interface	MINI USB				
Quantity of keys	24				
Data Transmission Range	\leq 20m (with obstacle), \leq 120m (without obstacle)				
Charger	Charge 8 JL-V2 (T) or JL-V2 (S) simultaneously				
Types of Questions	8 types available: True or False, Yes or No, Multiple Choice, Multiple				
	Answer, Numeric, Fill in/Completion, Arrange Sequence and Scope				
Operation System	Windows XP, Windows Vista, windows 7				

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

NOTE: 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.