

**Federal Communication Commission Interference Statement**

**FC** 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 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.

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.

*FCC Caution:* Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**IMPORTANT NOTE:****FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**CE NOTICE**

**CE** This is a Class B product.

**Class I LED Product**

## 低功率電波輻射性電機管理辦法

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THE MARK OF CROSSED-OUT WHEELED BIN INDICATES THAT THIS PRODUCT MUST NOT BE DISPOSED OF WITH YOUR OTHER HOUSEHOLD WASTE. INSTEAD, YOU NEED TO DISPOSE OF THE WASTE EQUIPMENT BY HANDING IT OVER TO A DESIGNATED COLLECTION POINT FOR THE RECYCLING OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT. FOR MORE INFORMATION ABOUT WHERE TO DROP OFF YOUR WASTE EQUIPMENT FOR RECYCLING, PLEASE CONTACT YOUR HOUSEHOLD WASTE DISPOSAL SERVICE OR THE SHOP WHERE YOU PURCHASED THE PRODUCT.

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## Package Contents

Make sure the following items are included in the package.

| Items         | Starter Pack | Classroom Pack | Add on Pack | Teacher Pack |
|---------------|--------------|----------------|-------------|--------------|
|               | QTY          | QTY            | QTY         | QTY          |
| CD            | 1            | 1              | 1           | 1            |
| AC Adapter    | 1            | 2              | 1           | 0            |
| USB Cable     | 1            | 1              | 0           | 1            |
| Lanyard Chord | 1            | 1              | 0           | 1            |
| Pen Pouch     | 1            | 2              | 1           | 0            |
| Warranty Card | 1            | 2              | 1           | 1            |
| Quick Guide   | 1            | 2              | 1           | 1            |
| Pen Sticker   | 1            | 2              | 1           | 1            |
| Teacher Pen   | 1            | 1              | 0           | 1            |
| Student Pen   | 4            | 8              | 4           | 0            |
| Charger       | 1            | 2              | 1           | 0            |
| Cradle        | 1            | 1              | 0           | 1            |
| Mouse Pad     | 5            | 9              | 4           | 1            |

Table 1

## Anatomy of AVerPen

|                          |  |
|--------------------------|--|
| Color                    | Teacher pen: blue & metallic gray<br>Student pen: orange & metallic gray             |
| Length                   | 5.94 inch (151 mm)   |
| Weight                   | 1.14 oz (32.4 g)   |
| Buttons                  | 6 response / presenter buttons, right click button, tail button, pen tip button      |
| Wireless technology      | 2.4GHz RF Wireless   |
| Range                    | 50ft(15m)  |
| Bandwidth supports up to | 7 AVerPen simultaneous operation   |
| Memory                   | register up to 60 AVerPens   |
| Pen tip technology       | proprietary optical sensor   |
| Software platform        | Windows(XP SP2, Vista 32-bit or 64-bit) or Mac OS X                                  |
| Connectivity             | USB charging cradle  |
| Battery                  | rechargeable lithium-ion polymer(non removable)                                      |
| Battery time             | 5 days per full charge, under typical usage time                                     |
| Power adapter            | input 100-240V / 50-60Hz 5V / 3A   |
| Operating temperature    | 0-45C (32-113F)  |
| Warranty                 | 2 years for the AVerPen, charger and cradle. 1 year for the battery and accessories. |
| Certifications           | FCC, CE  |

Table 2

## Introduction

AVerPen is a friendly tool which is especially designed for teachers and students. Hold AVerPen like you would normally hold a pen and you can enjoy its empowering ability. This ultimate input tool fosters greater engagement by empowering the teacher and multiple student groups to interact with class material at the same time. Up to 6 student pens and one teacher pen can interact at one time while up to 60 student pens can be registered to one cradle for group response system operation purpose.

## Features

### Teacher pen:

- Teacher pen behaves like a master pen, it was given the authority to control every functions within AVer+
- It can work with student pen on GRS and Multiple Inputs function (please check GRS, Multiple Inputs in User Manual).
- Teacher pen is capable of moving freely outside AVer+ software's window, acting like a typical mouse device.
- It has 6 presenter buttons; controlling different presentation functions such as Play, Pause, Stop, Next page, Previous Page, Volume up, Volume down and Black screen when AVer+ Control is running (see next page Fig. 1 for details).

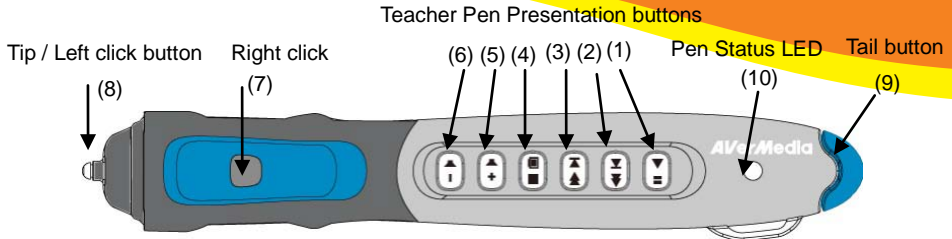


Fig. 1

**Aver+ Control** (See Fig. 2) is an associated program come with Aver+. Within the Aver+ Control on, AVerPen can function as a remote control to operate the PowerPoint and Media Player effectively.

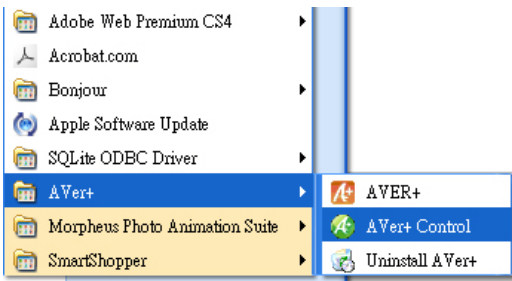





Fig. 2

## Features of Teacher Pen Presenter Buttons

| Button  | PowerPoint   | Media Player   | Aver+                |
|---|--|--|----------------------|
| Button 1<br> | <b>Show slides + End slides</b><br>(Press once = <b>Play current slides</b> , press again = <b>End slides</b> , press again = <b>Play current slides</b> ) | <b>Play + Pause</b> (press once = <b>Play</b> , press again = <b>Pause</b> , press again = <b>Play</b> ) | N/A                  |
| Button 2<br> | <b>Next page</b>   | <b>Fast Forward</b>  | <b>Next Page</b>     |
| Button 3<br> | <b>Previous page</b>   | <b>Rewind</b>  | <b>Previous Page</b> |






|          |   |   |  |     |
|----------|---|---|--|-----|
| Button 4 |  | <b>Black screen</b>                       | <b>Stop</b>                              | N/A |
| Button 5 |  | <b>Volume up (Windows Media Player)</b>   | <b>Volume up(Windows Media Player)</b>   | N/A |
| Button 6 |  | <b>Volume down (Windows Media Player)</b> | <b>Volume down(Windows Media Player)</b> | N/A |

Table 3

## Features of Teacher Pen Buttons


| Button   |  | PowerPoint | Media Player | Aver+ / Outside Aver+   |
|----------|--|------------|--------------|---|
| Button 7 |  | N/A        | N/A          | <b>(7)Right Click</b>   |
| Button 8 |  | N/A        | N/A          | <b>(8)Pen Tip / Left Click</b>  |
| Button 9 |  | N/A        | N/A          | <p><b>(9) Tail button</b></p> <p>(1) A: If in AVer+ and eraser tool is not selected: <b>Switching tool to eraser.</b><br/>                     B: If in AVer+ and eraser tool is selected, switch tool <b>back to the previous tool.</b></p> <p>(2) Press Right Click Button (7) + Tail Button (9) more than 3 sec, it <b>initiates into binding mode.</b></p> <p>(3) Press Tail Button(9) 3 sec above, <b>A: go into Sleep Mode B: exit Sleep Mode</b></p> |

Table 4

## Student Pen:

- Student pen is restricted to be activated inside AVer+ software window ONLY. It only works when GRS (Group Response System) & Multiple Inputs functions which are activated by teacher pen.

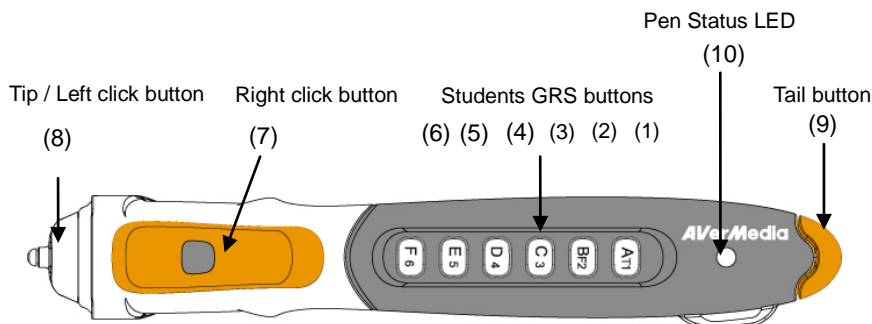


Fig. 3

## Features of Student Pen GRS Buttons

| Button   |  | GRS  |
|----------|--|--|
| Button 1 |  | <p><b>Single answer</b><br/>Press to <b>select and submit an answer</b>, press again to cancel<br/>If an answer is selected, press another answer button will submit the new answer and cancel the previous answer</p> <p><b>Multiple answers</b><br/>Press multiple buttons to <b>select and submit multiple answers</b><br/>Press the already selected answer button again will cancel that answer selection</p> |
| Button 2 |  |  |
| Button 3 |  |  |
| Button 4 |  |  |
| Button 5 |  |  |
| Button 6 |  |  |

Table 5

## Features of Student Pen Buttons

| Button   |  | Aver+  |
|----------|--|--|
| Button 7 |  | (7)Right Click   |
| Button 8 |  | (8)Pen Tip / Left Click  |
| Button 9 |  | <p>(9)Tail Button</p> <p>(1) A: If in AVer+ and eraser tool is not selected: <b>Switching tool to eraser.</b><br/>                     B: If in AVer+ and eraser tool is selected, switch tool back to the previous tool. If outside AVer+: no use</p> <p>(2) Press <b>Right Click Button(7) + Tail Button(9)</b> 3 sec above, <b>go into binding mode.</b></p> <p>(3) Press Tail Button(9) 3 sec above, <b>A: go into Sleep Mode</b><br/> <b>B: exit Sleep Mode</b></p> |

Table 6

## LED Status

| Pen Tail LED Status            | Pen Status                                |
|--------------------------------|---|
| Orange Light in Steady         | Charging                                  |
| Orange Light flash 3 times     | Searching for cradle to bind              |
| Orange light up 3 sec          | Entering sleep mode                       |
| Orange light flash per 0.5 sec | 20~10% battery power remaining            |
| Green light                    | Charge complete                           |
| Green light flash 3 times      | Cradle is found and binding is completed. |
| Green light up 3 sec           | Exiting from sleep mode                   |
| Green Light flash per 3 sec    | Standby mode                              |

Table 7

## Charging the Pen

Make sure the cradle is connected to the computer via USB. The computer will automatically detect the newly installed hardware. Then insert the teacher pen in the cradle to start charging the battery. (See Fig. 4)

The tail LED light turns orange while charging and becoming green when it is fully charged.

\*Some USB hubs that do not meet USB standards may decrease pen performance. If you notice decreased performance using a USB hub with your pen, plug your cradle directly into the USB port on your computer for better results.

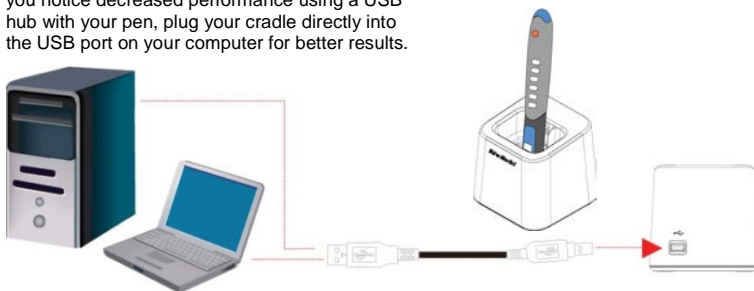


Fig. 4

Student's AVerPen has a separate charger; the charger has 4 charging docks and is capable of charging 4 AVerPens together. The charger also has the capability of connecting with each other (expendable) in series (See Fig. 5) and up to 6 chargers can be connected in serial. (Charging up to 24 AVerPens).

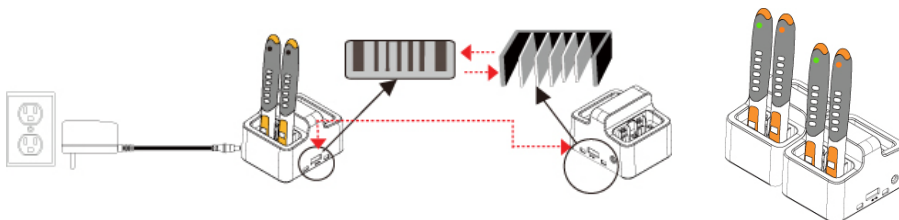
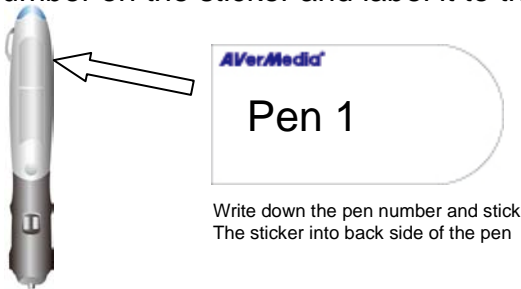


Fig. 5

It recommends user to charge 2.5 hrs at least on both teacher pen & student pens before start using them first time.

## Start Using AVerPen

The Teacher pen and 4 Student pens are already bond with the cradle. There is no need to bind these pens to the cradle again. Please remember to label the pens with correct pen number by referring to AVer+'s pen management control panel. Please refer to "identify the pen number" on page 12. Each AVerPen package comes with pen label stickers, simply write down the correct pen number on the sticker and label it to the corresponding pen.



Run the AVer+ software by double click the AVer+ icon (See Fig. 6).



Fig. 6

AVer+ main window is opening. User can press Setting (Fig. 7) → AVerPen (Fig. 7) → Pen Management on Control Panel. If the pens have been bound successfully, user can see the circle sign under signal column is lighting up green. (See Fig. 8 at next page)

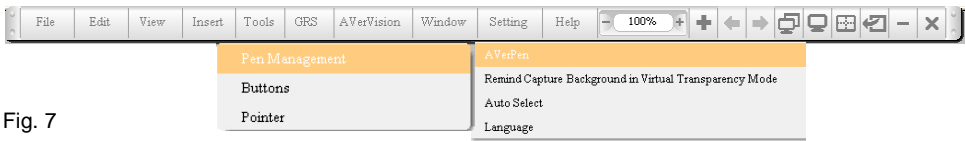


Fig. 7

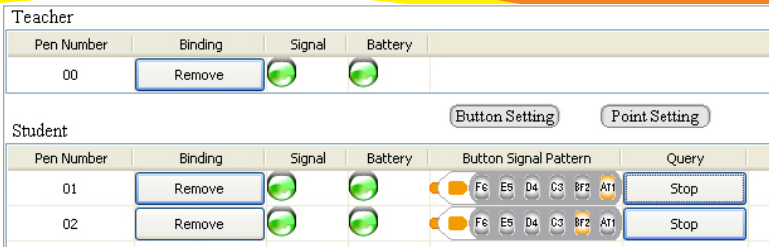


Fig. 8

If the pen has not bound by cradle successful, no circle sign is showing there. User need to click the Assign button (1) under binding on the Pen Management Panel(See Fig.9) and press the pen on right click and tail button simultaneously for above 3 sec to bind the pen.(See Fig.10)

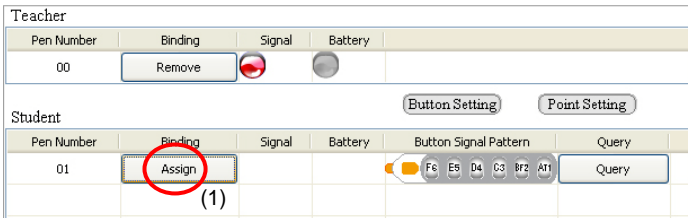


Fig. 9



Fig. 10

User can check the battery status by observing the color of the circle signs under battery column.

If the circle sign is green, it indicates the battery is sufficient. If the circle sign is yellow, it indicates the battery is low. If the circle sign is red, it indicates the battery is nearly empty. If the circle sign appears as gray, the pen is under sleep mode. (See Fig.11)



Fig. 11

To identify the pen number, clicking the Query button next to Button Signal Pattern, the button sign(s) on Button Signal Pattern will light up (See Fig. 12) and the corresponding student pen button is flashing in the same time for 10 seconds. (See Fig. 13)

| Teacher    |         |        |         |  |
|------------|---------|--------|---------|--|
| Pen Number | Binding | Signal | Battery |  |
| 00         | Remove  |        |         |  |

| Student    |         |        |         |  |  |  |  |  |  |  |  |
|------------|---------|--------|---------|--|--|--|--|--|--|--|--|
| Pen Number | Binding | Signal | Battery | Button Signal Pattern  |  |  |  |  |  |  |  |
| 01         | Remove  |        |         | <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |  |  |  |  |  |  |  |
|            |         |        |         |  |  |  |  |  |  |  |  |
| 02         | Remove  |        |         | <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |  |  |  |  |  |  |  |
|            |         |        |         |  |  |  |  |  |  |  |  |

Fig. 12



Fig. 13



## Holding the Pen

Grab the AVerPen and hold it as you would normally do with a pen; optimal angle is around 65 degrees (See Fig. 14)

Touch the white pen tip on the writing surface slightly and glide the pen tip across the writing surface to move the cursor in the desired direction.

To click or double click like the left mouse button, just tap the AVerPen tip on the surface. This will make a selection, highlight, or open an item.

To click and drag, press the AVerPen tip on the surface and slide. To right click, you may use your index finger to click the front button. This will open any shortcut or context-sensitive menus.

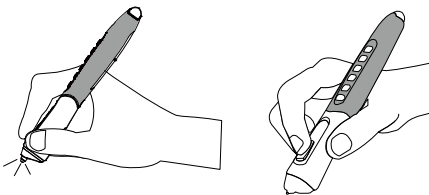


Fig. 14

## Working with GRS

Group Response System (GRS) is a friendly and easy-to-use tool, by operating with AVerPen , teacher can give exercise and quizzes instantly to students for their participate.

1. Before accessing GRS, user can insert exercise by clicking on GRS button on the top control panel. Hit Edit Vote Page, the Editing Vote Page Panel will pop up. (See Fig. 15)

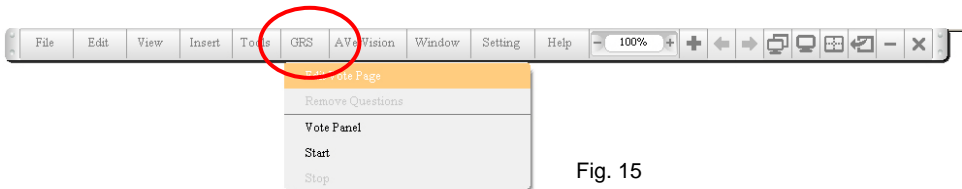
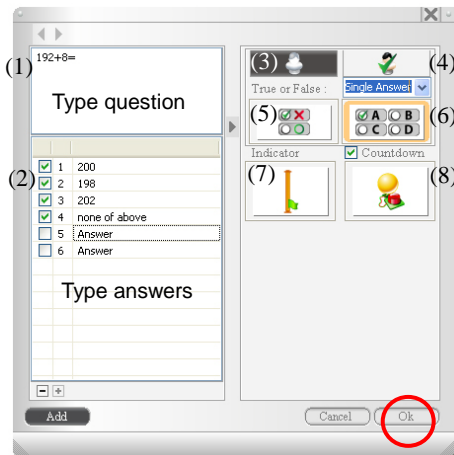


Fig. 15

2. Choose the answer by clicking button (5) or (6) (See Fig. 16), type in the question and the answers, click ok when finishing.(See Fig. 16)



- (1) Question type in area
- (2) Answers type in area
- (3) Anonymous
- (4) Display Name
- (5) True or False
- (6) Multiple Answer & Single Answer
- (7) Indicator
- (8) Countdown

Editing Vote Page Panel Fig. 16

3. If user needs to insert more than one GRS exercise, choose Window → Page Browser, a page browser panel will appear. (See Fig. 17)
4. Click Add button on the Editing Vote Page Panel to add new page and follow the step 2. (See Fig. 18)
5. Click Ok button to close Editing Vote Page Panel when finishing(See Fig. 18)

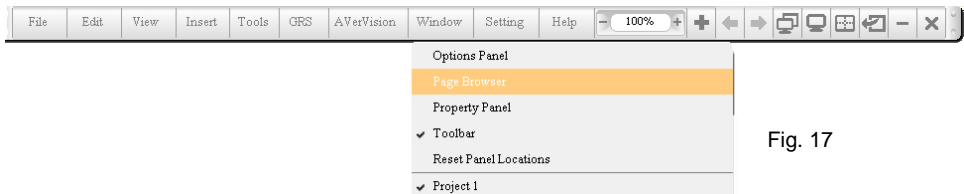


Fig. 17

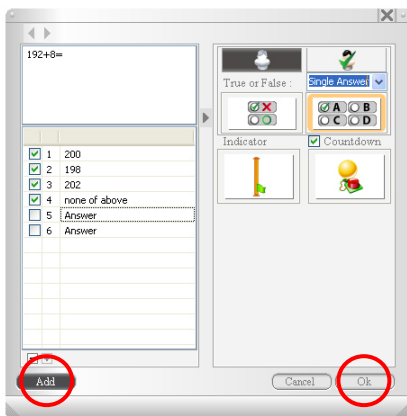


Fig. 18

- The exercise page will be loaded to the main screen (See Fig. 19), user can go to file → save it (See Fig. 20) for future use or use it instantly.

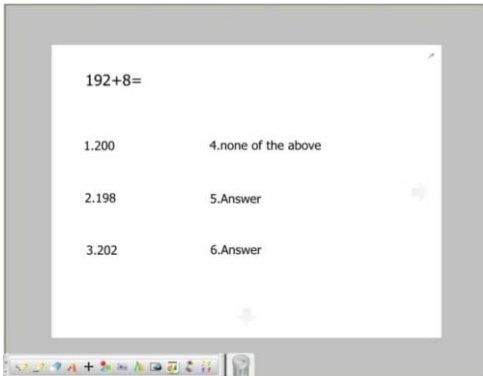


Fig. 19

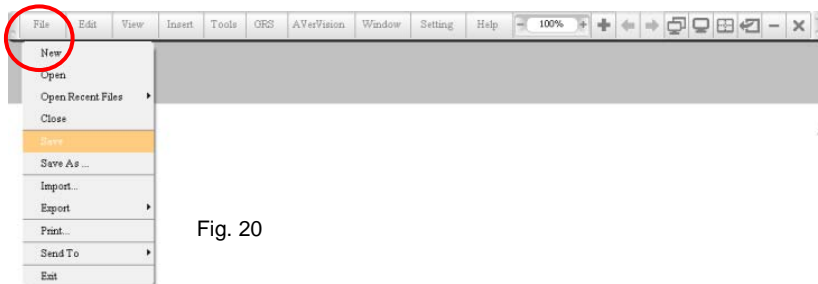


Fig. 20

- After inserting the question, user can activate group response system(GRS) by clicking on GRS button in main toolbar(See Fig. 21)



Main Tool bar

GRS

Fig. 21

## Features of GRS Buttons

The GRS Panel will pop up. The available student pens will appear on the Pen Pool area if they have been bound. (See Fig. 22)  
 There are six buttons on the GRS panel which hold the same function with those in Editing Vote Page Panel; user can base on their needs to select **Anonymous / Display Name, Single Choice / Multiple Choice, Indicator** and **Countdown** for their requirement.

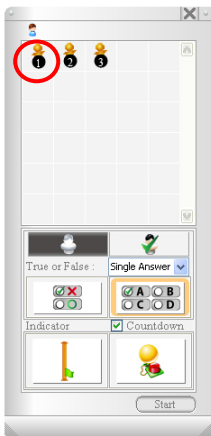


Fig. 22

GRS Panel

- (1) **Anonymous:** the pen number of those pens that submit the answers to AVer+ will not be displayed in the result table (See Fig. 23 & 24)



Anonymous Button

Fig. 23



Fig. 24



(5) **Indicator:** Presenting the percentage of students among the total students have replied the answers, there are 5 graphical indicators to choose from.

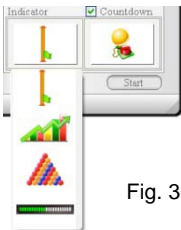


Fig. 30

(6) **Countdown:** the countdown is listing 5 second for students preparing to feedback the answer, there are 5 animated countdown signs to choose from.

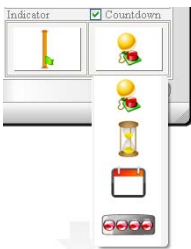


Fig. 31

8. Clicking the start button while finish(the GRS activity preparation is done), students can reply their answers by pressing GRS buttons.(See Fig.32)

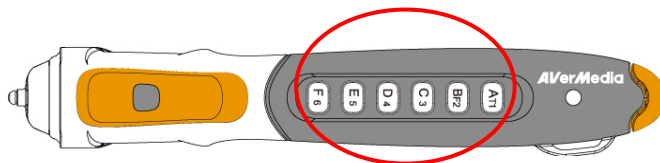


Fig. 32

- The pen number icons will replace with blue color if student pens have replied the answers. After the replying, click the stop button with teacher pen, (See Fig33). User can check variety of graphic results in Pie graph, Bar graph and Table graph. (See Fig. 34, 35,36) This will allow teacher to know the details of students responding. In addition, AVer+ will present first 3 repliers with the gold, silver and bronze star symbols.(See Fig. 36)

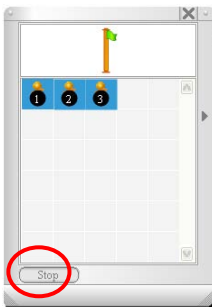


Fig. 33

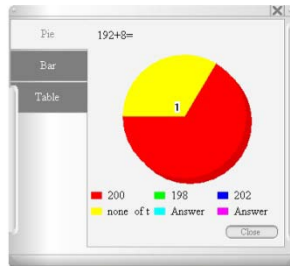


Fig. 34

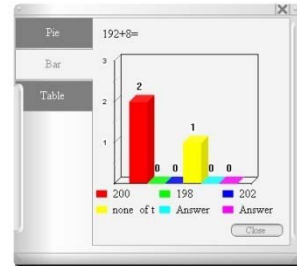


Fig. 35

 A screenshot of a table window titled 'Who is Wang?'. The table has two columns: 'ID' and 'Answer'. The first three rows are: (1, A), (2, B), and (3, B). The first three rows have star icons next to the ID column: a gold star for ID 1, a silver star for ID 2, and a bronze star for ID 3. A 'Close' button is at the bottom right.

Fig. 36



## Working with Multiple Inputs

Multiple Inputs is an interactive and easy-to-use tool, by working properly with AVerPen, teacher and student groups can interact with teaching materials instantly at the same time. Up to 6 student pens can be assigned and working with teacher pen at one time.

1. User can access Multiple Inputs by clicking Multiple Inputs button in toolbar. (See Fig. 37)

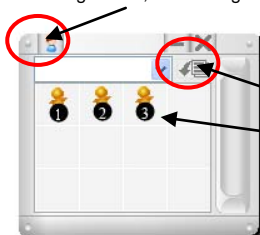


Fig. 37

Multiple Inputs button

2. The Multiple Inputs control panel will pop up, if the students pen have been bound, the available pen with number will appear on the pen pool area in orange (See Fig. 38), if the students pens that are previously bounded with the cradle and cannot be found by the cradle at the time Multiple Inputs control panel is pop up, the undetected pen icon will be displayed in the pen pool area in gray.(See Fig. 39)

Binding button, for binding the pen which is not list in the pen pool area



Recycle Pen button, for deactivating the selected student pen

Pen Pool area, the available pen with number will present here

Fig. 38

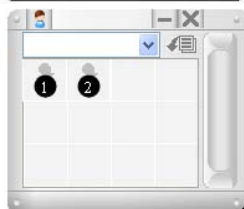


Fig. 39

- Using the teacher pen to click at the student pen icon on pen pool area, it will be highlighted with orange; dragging it into the page to participate the exercise or learning materials. Multiple pens (up to 6 student pens and 1 teacher pen) can be dragged and work in the same time.(See Fig.40)

$$6 + 18 =$$

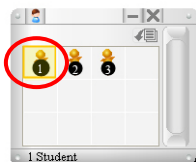


Fig. 40

- The student pen icon will become black and white; the corresponding student tool bar will pop up. The student pen cursors appear with different colors for different pen number. Student pen can work effectively now; each student pen will have its own tool bar.(See Fig.41)

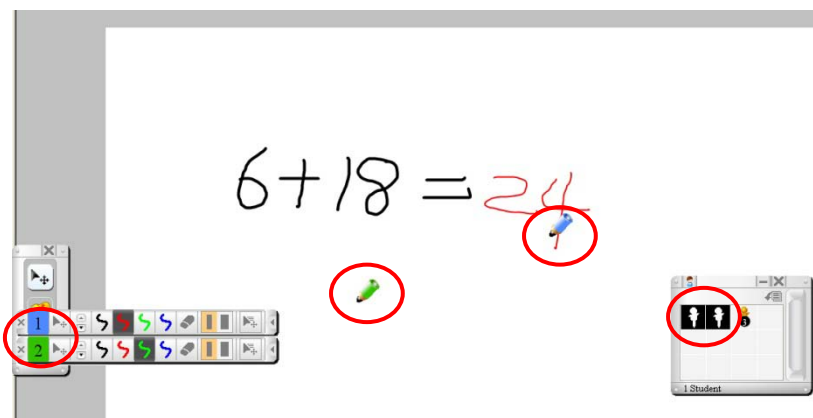


Fig. 41

5. User can use the student pen to select the colors, line width, eraser size and pen speed for drawing on the writing area

## Features of Student Tool bar



Fig. 42

- (1) (2) (3) (4) (5) (6) (7) (8) (9)

- (1) Close Button: For deactivating the student pen and closing the tool bar
- (2) Student pen number: Showing pen number
- (3) Selection: For selecting the objects
- (4) Freehand Set Selector: Giving user more color selection
- (5) Freehand Tool: Acting like a pen tool, good for drawing stuffs
- (6) Eraser: For erasing objects
- (7) Tool Option: For selecting line width and eraser size
- (8) Pen Speed: For selecting the pen speed
- (9) Collapse Button: For collapsing the toolbar

6. Teacher pen can deactivate the activity of student pens any time By hitting Close button or Recycle Pen button (See Fig.43, 44)



Fig. 43



Close button



Fig. 44

Recycle Pen button

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