



User Manual



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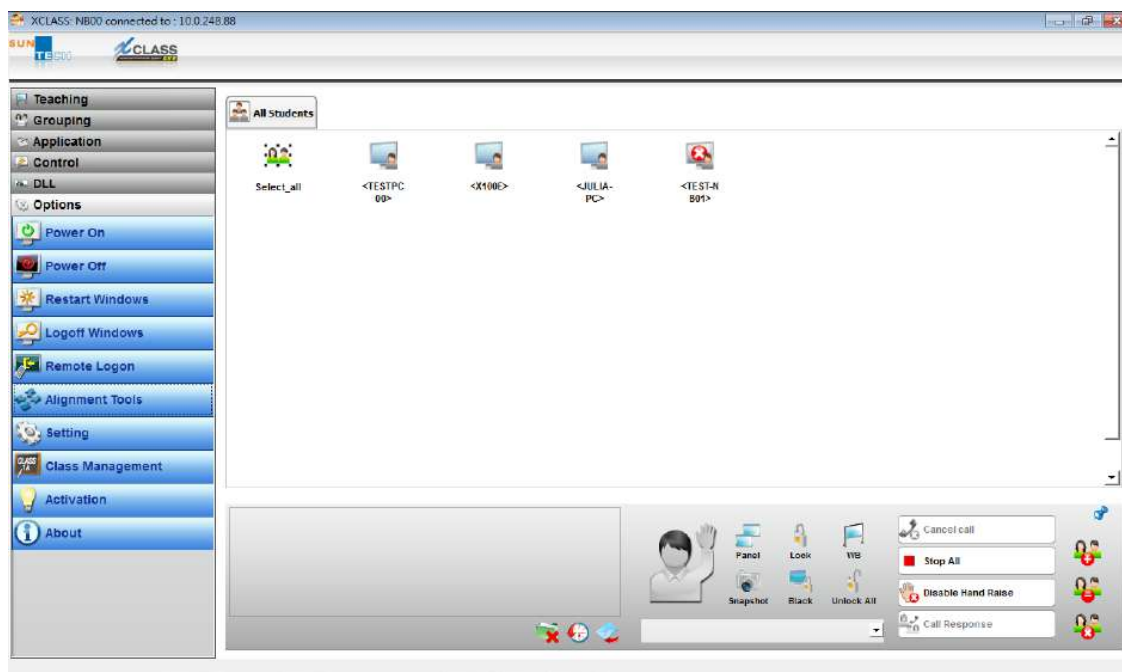
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XCLASS Multimedia Classroom Management System

1. Introduction

XCLASS is a Multimedia Classroom Management Software, which integrates classroom controlling and Teacher-Student interaction. By utilizing the teaching panel with Graphical User Interface (GUI), classroom environment can be controlled perfectly. Additionally, teaching experience and learning proficiency could be totally enhanced with the help of advanced management features of XCLASS.



Classroom Control Panel



Teaching Panel



Group Discussion



Application Panel



Control Panel




Teacher Toolbar

2. Student Management

Each student PC is assigned with a unique **Student** and **Computer Name** so that the teacher program can identify and control them.

2.1 Add Student

To add student PC(s) to the seating plan from Teacher PC:

1. Press  button in the Options tab.
2. Click "Add Student" button.
3. An **Add Student** window displays as the follow:



4. The left window shows the available student PC(s) who are ready to add. The right Window shows the selected student PC(s).
5. To select student(s), please highlight the student(s) in **All Student** list on the left hand side (holding "Ctrl" key + pressing left mouse for multiple selection).
6. Then click >> button >> to add the selected student(s) to the right hand side's **Added Student** list or click **Add All** to select all available student(s) and add to the **Added Student** list.
7. To cancel selection, highlight the student(s) teacher wants to unselect in **Added Student** list then click << button << or **Delete All** to remove all selected student(s).
8. After selection, please click **OK** to confirm the selection. Now student(s) are added to the seating plan accordingly.
9. Access to the seating plan alignment tools to arrange student icons in right position and make sure modification has been saved from the alignment tools menu. Please refer to 8.2 Alignment tools for details.

P.S. All teacher and student PCs should be in the same channel (refer to Appendix 1 about the channel setting)

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Connection status

When the student icon shows as , student PC is connected to teacher PC.

When the student icon shows as  (with a red cross), student PC is disconnected.

When the student icon shows as , student PC is connected but logged off.

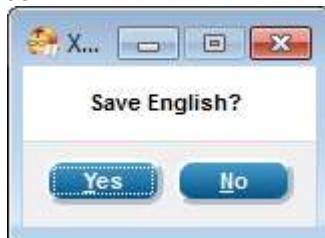
2.2 Remove a Student

To remove a student PC from the seating plan:

1. Right click the student icon that needs to be removed from in seating plan.
2. In the popup menu, select "Remove Student" to remove the selected student Icon.



3. To save the seating plan for current class (e.g., English), please click "Yes" in the popup dialog box.



Next time when the class (e.g., English) is loaded, previously saved seating plan will be displaying on teacher PC. (For details on class management, please refer to Section 8.5)

3. Teaching Panel

<Teacher Show>	Allows teacher to broadcast the teacher's PC screen and voice to selected students
<Student Monitor>	Allows teacher to "stroll" around the classroom
<Remote Aid>	Empowers teacher with the ability to control selected student's PC remotely, which makes interactive guidance possible
<Student Show>	Allows teacher to relay the selected student's PC screen together with his/her voice to other students
<Teacher Voicecast>	Allows teacher to have voice broadcasted to selected students
<Student Voicecast>	Allows teacher to broadcast the selected student's voice to other students.
<Voice Monitor>	Allows teacher to listen to the activities that students are engaging in
<Intercom>	Allows teacher to communicate with any selected student at one time.

Teaching Panel function keys



3.1 Teacher Show

Teacher Show is one of the major functions in XCLASS. With this feature, teacher can broadcast the multimedia messages from the teacher PC to a single student, a group of students, or all students in real-time. Once teacher starts the Teacher Show, teacher screen shall be broadcasted to students' PCs in real-time.

3.1.1 Starting Teacher Show

Steps to use Teacher Show:

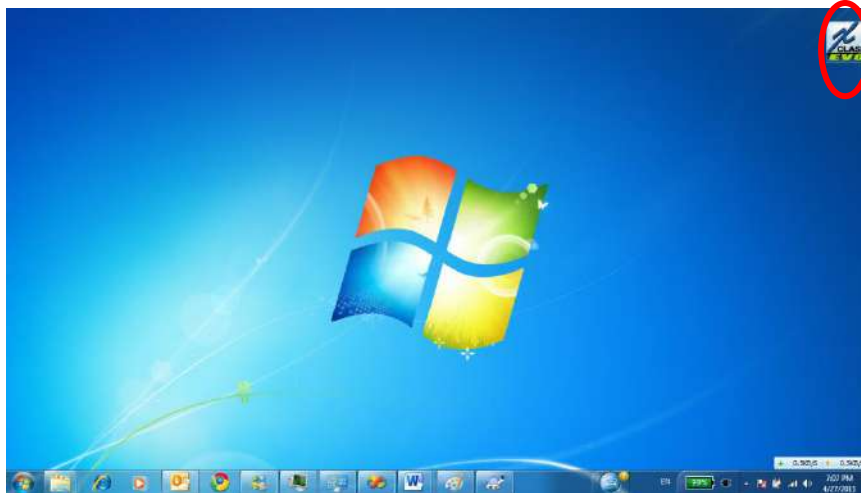
1. Select some student(s) or groups (for details on groups, please refer to Section 5.1) or all

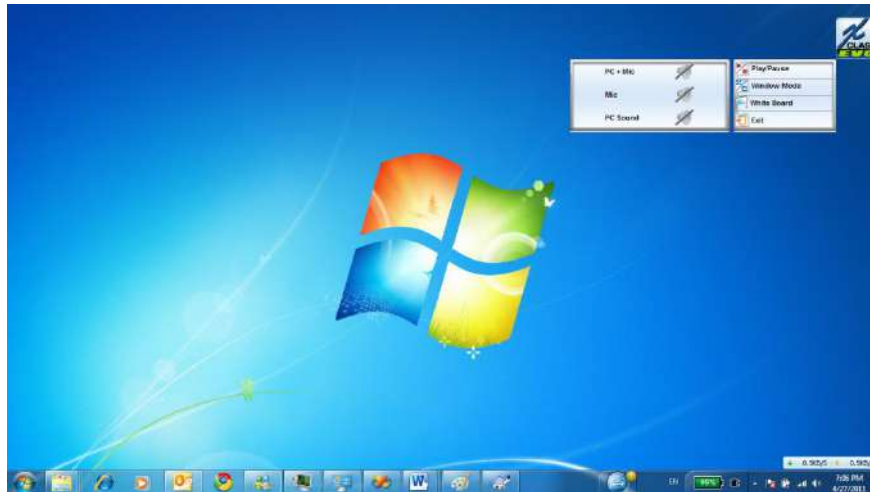



students to receive Teacher's screen and voice.



2. Click from the <Teaching> panel.
3. The main < Classroom Control Panel > will be minimized by default (teacher can choose to display this panel during teacher show by unchecking the checkbox of "Hide Panel in Teacher Show" from <Setting> button in <Options> panel).
4. Teacher now can convey the screen messages to students.
5. Move the mouse pointer to the top right corner of the screen. The <Teacher Show Panel> Toolbar appears once the mouse pointer stays on it.



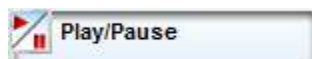


6. Teacher can click  **Exit** in the toolbar to exit <Teacher Show>.

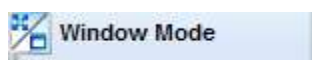
3.1.2 The Teacher Show Panel

The <Teacher Show Panel> toolbar consists of useful features that help teacher carry out a smoother lesson.

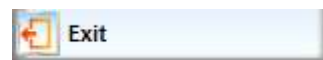
Useful functions in the Teacher Show



: Pause / Resume Screen Broadcasting



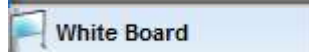
: Windows Mode / Full Screen Projection on Student PC



: Exit




: Audio setting to switch between PC Sound + Microphone / Microphone and PC Sound




: Smart Pen

3.1.3 Pause Screen Broadcasting

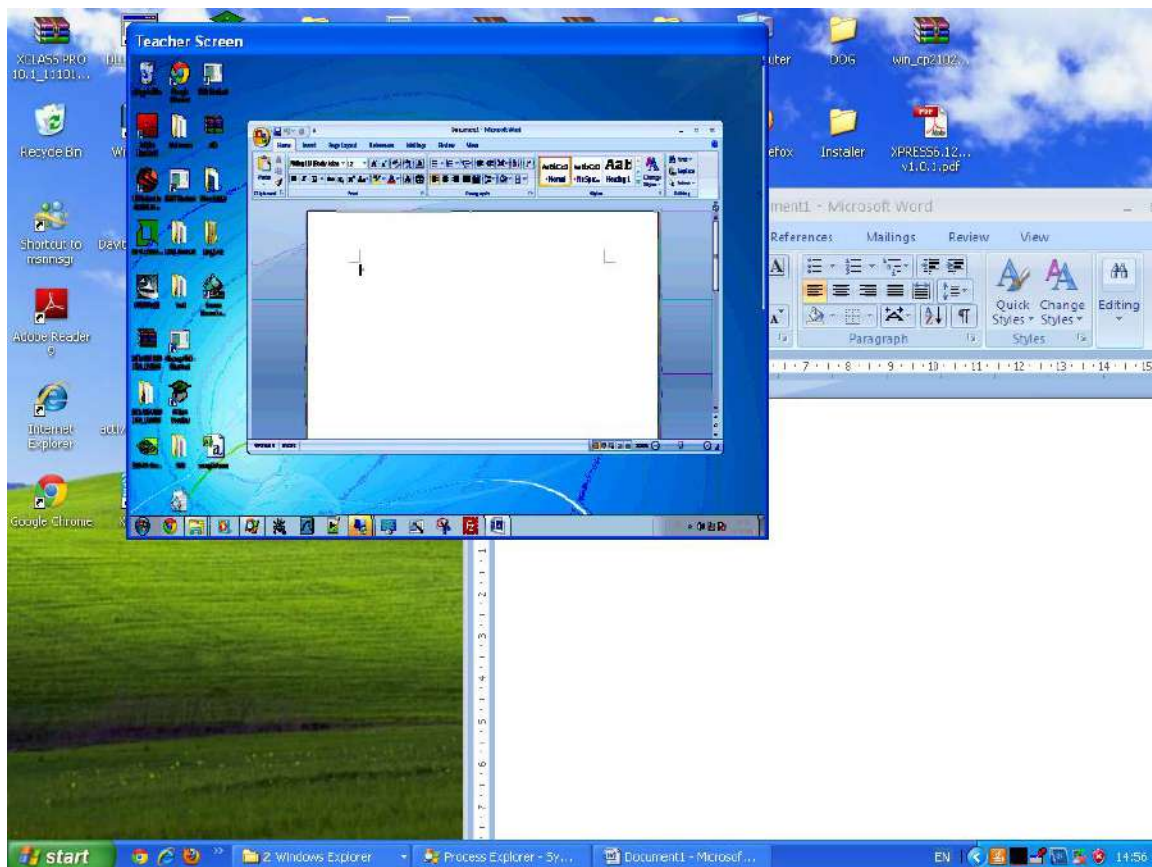
The Play/Pause function allows presenter to control the flow of the presentation.

Click < Play/Pause >  **Play/Pause** to pause the broadcasting.
Click it again to resume broadcasting.

3.1.4 Windows Mode Projection

The default screen will be displayed in full window. Click  **Window Mode** on the <Teacher Show> Toolbar to activate the window mode projection in student's screen.







Students can adjust the size and position of the teacher's projection window screen and place it on the desktop according to their own desire.




Windows Mode Projection (Student's Screen)

3.1.5 Demonstration with Audio

Teacher can choose to demonstrate PC screen together with sounds to Students. The default recording device is microphone; however, teachers can specify different recording device by selecting the relevant recording source:


- Click <MIC>  or  to enable or disable broadcasting microphone sound (via headset).
- Click <PC Sound>  or  to enable or disable broadcasting PC's sound.
- Click <Mic with PC Sound>  or  to enable or disable broadcasting teacher's microphone and PC's sound.

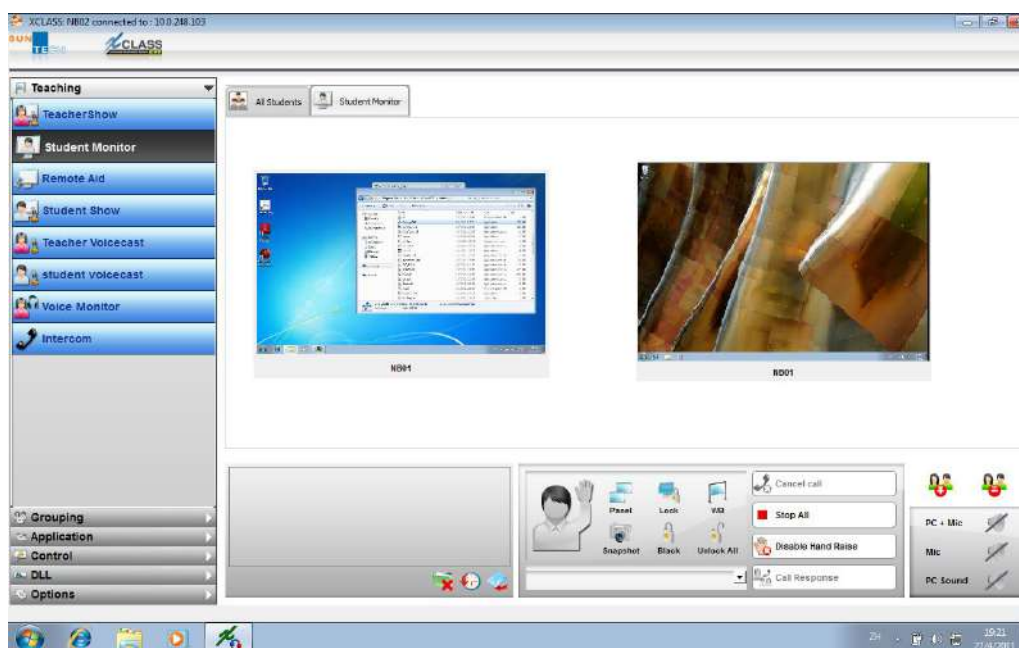
3.1.6 Demonstration with Smart Pen

During the Teacher Show, Teacher can use Smart Pen to deliver information to the students. When teacher wants to activate the function, teacher can select  **White Board** from the <Teacher Show Panel>, and then the broadcast interface will be paused. Now teacher can use different smart pen tools for the demonstration. When exiting the Smart Pen function, the interface will be resumed and desktop broadcasting continues. For details on smart pen, please refer to section 4.4.

3.2 Student Monitor

Teacher can simultaneously view student screens in real-time (individual student, a group of students, or all students) through teacher PC in full screen mode or in multiple-window mode.

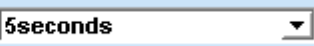
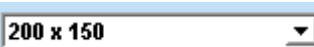
1. Select icon(s) of student whose screen is to be monitored (individual, group, or all).
2. Press <Student Monitor>  **Student Monitor** from the <Teaching> panel.
3. Teacher screen will display the selected student screen.




4. Click  **Student Monitor** again to close student monitor function.

3.2.1 Monitor Setting

The Student Monitor Setting is located at <Options> in <Setting> panel. Teacher can adjust some settings before launching the Student Monitor function.

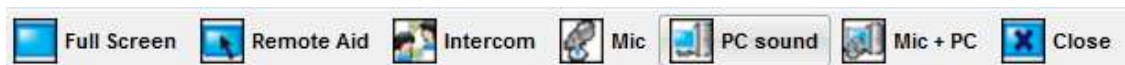
- **Show Seconds:** 
Set the refresh time interval of student screen.
- **Monitor Icon Size:** 
Set the size of student window viewed by teacher.

- 


Set the picture quality of monitored screen.

3.2.2 Function panel

Student monitor window will be enlarged by double clicking the target student. The <function panel> is displayed on top of each monitored window:



Full screen

- After selecting the “Full Screen” function, the monitor screen will change from window mode to full screen mode.
- If the student interface’s resolution is larger than Teacher interface, then Teacher can use the mouse to point to the side of the windows to move the student’s screen left/right or up/down.
- To exit from the full screen mode, move the mouse to the top edge of the screen. Please wait until the <function panel> exists, then click  again to return to window mode.




Remote Aid

- Start or stop mouse and keyboard control of the selected student’s PC remotely

Intercom

- Start or stop the intercom between teacher and selected student’s PC

Sound Monitoring

- Start or stop the sound monitoring of selected student
 -  - Microphone Monitor
 -  - PC Sound Monitor
 -  - PC Sound + Microphone Monitor

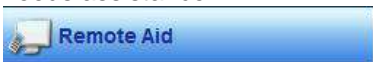
Exit

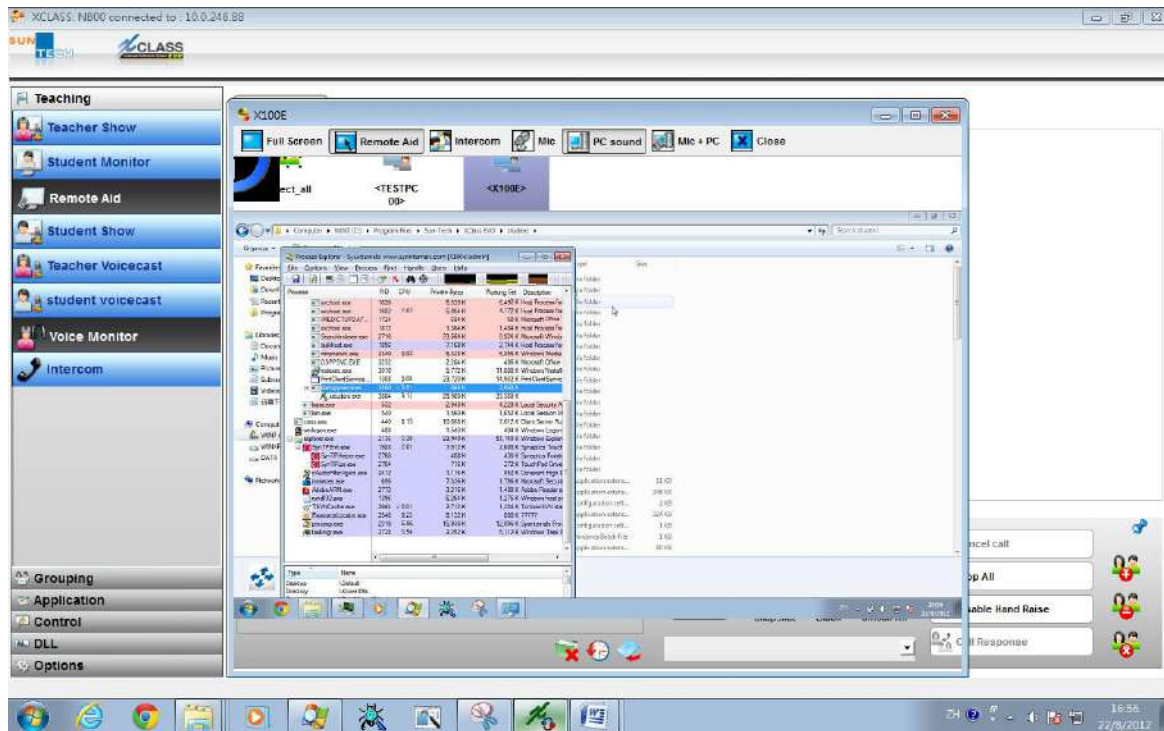
- Click  to close the “Student Monitor” of the selected student’s PC

3.3 Remote Aid

By using <Remote Aid>, teacher can help any logged-on student in a remote but interactive Talk & Lead manner. Teacher can take control of any student’s computer and work on it in the same way as if working on teacher’s own PC.

In some cases, teacher would find students uneasy to disclose their learning problems. Either as the result of being shy or simply uninterested, then teacher may apply this guidance function to help. Under this mode, teacher can communicate with the student via headset and microphone, lead and give feedback while teacher is controlling and let the student practice if necessary.

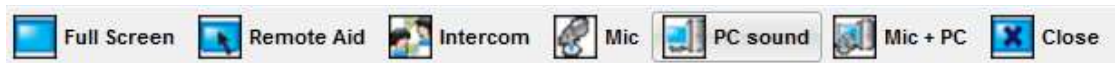
1. Select a Student that needs assistance.
2. Press <Remote Aid>  from the <Teaching Panel>.
3. Teacher screen will display the selected student’s screen (in window mode).




4. Click  from the function panel to close the student monitor function.

3.3.1 Function Panel

The function panel is displayed on top of each monitored window for enhancement:



Full Screen

- After selecting the "Full Screen" function, the monitor screen will change from window mode to full screen mode.
- If the student interface's resolution is larger than Teacher interface, then Teacher can use the mouse to point to the side of the windows to move the student's screen left/right or up/down.
- To exit from the full screen mode, move the mouse to the top edge of the screen. Please wait until the <function panel> exists, then click  again to return to window mode.

Remote Control

- To stop or restart the mouse and keyboard control of the selected student's PC

Intercom

- Start or stop the intercom between teacher and the selected student's PC

Sound Monitoring

- Start or stop the sound monitoring to the selected student's PC



- Microphone Monitor
- PC Sound Monitor
- PC Sound + Microphone Monitor


Exit

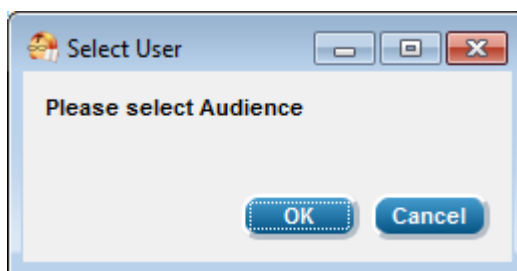
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- Click  to close the “Student Monitor” of the selected student’s PC

3.4 Student Show


Teacher can enable one student to carry out presentation by broadcasting his / her voice and PC screen to the targeted students.

1. Select a student from seating plan to broadcast his/her screen.
2. Choose  **Student Show** from the <Teaching Panel>.
3. Select students to receive the presenter’s PC screen and voice.





4. Click “OK” to start Student Show.



5. The <Teacher Show> toolbar  will appear on the top right corner of the screen. Teacher can choose different options from the panel (For details please go back to section 3.1.2).


3.5 Teacher Voicecast

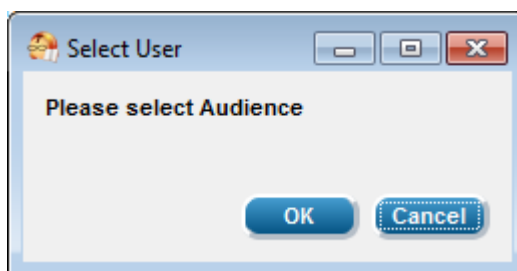
Teacher can broadcast his/her real-time voice messages to a single student, a group of students, or all students.

1. Select students (individual, group, or all) from the main screen.
2. Click  **Teacher Voicecast** to start the voice broadcast function.
3. Click  **Teacher Voicecast** to stop the voice broadcast function.

3.6 Student Voicecast

A student can have his / her voice and PC sound broadcasted to selected audience via microphone.

1. Select a student from seating plan to broadcast his/her voice.
2. Click  **student voicecast** from the <Teaching> panel.
3. Select students to receive the presenter’s voice.



4. Click "OK" to start the broadcast.
5. Click the <Student Voicecast> again to stop voice broadcasting function.

3.7 Voice Monitor

Teacher can listen to the speech of a single student via the headset by choosing <Voice Monitor>.


1. Select a student from seating plan.
2. click <Voice Monitor>  **Voice Monitor** to hear the student's voice and PC sound.
3. Teacher can change the target student by simply clicking another student's icon.
4. Click <Voice Monitor> button again to stop the monitoring function.

Voice Monitor → Intercom

During the <Voice Monitor> section, if the teacher want to chat with the monitored student, teacher can click the <Intercom> from the <Teaching Panel> or right click student icon and select <Intercom> for direct chatting.

3.8 Intercom

Teacher may have one to one communication with selected student through the network without disturbing other students.

1. Select a student to intercom with teacher from the seating plan.
2. Click <Intercom>  **Intercom** to start chatting with the student.
3. Teacher can change the targeted student by clicking another student's icon.
4. To stop the intercom function, please click <Intercom> button again.

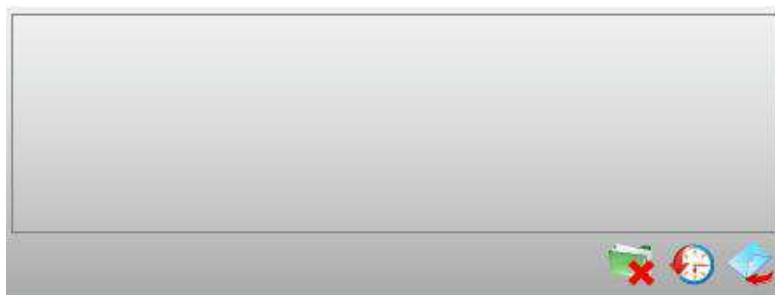
4. Teacher Toolbar




The <Teacher toolbar> consists of useful functions that help teacher to carry out a smooth lesson.



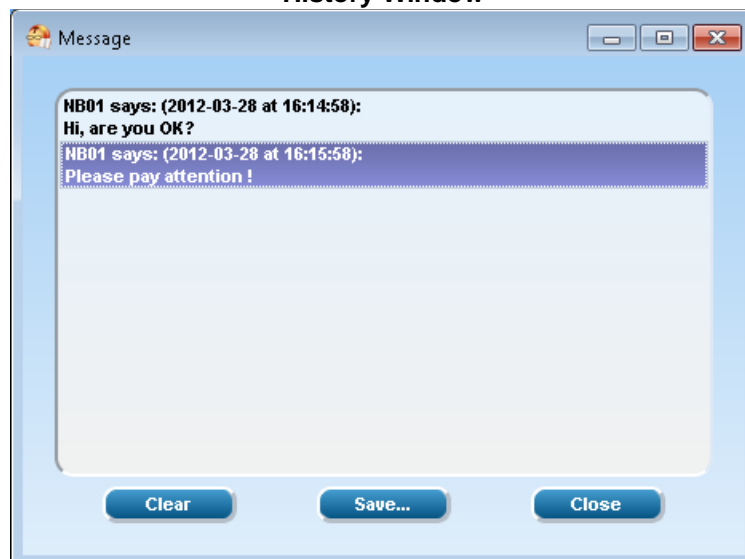
4.1 Billboard Message

Teacher can type and send one-way message to student(s) by using the messaging function in the Teacher toolbar.




- Select student(s) from the seating plan to receive message.
- Type the message in the empty space and click <Send>  to deliver the message.
- Click <History>  to view or save the history record to a file for backup.
- Click <close>  to close the message box.

History Window



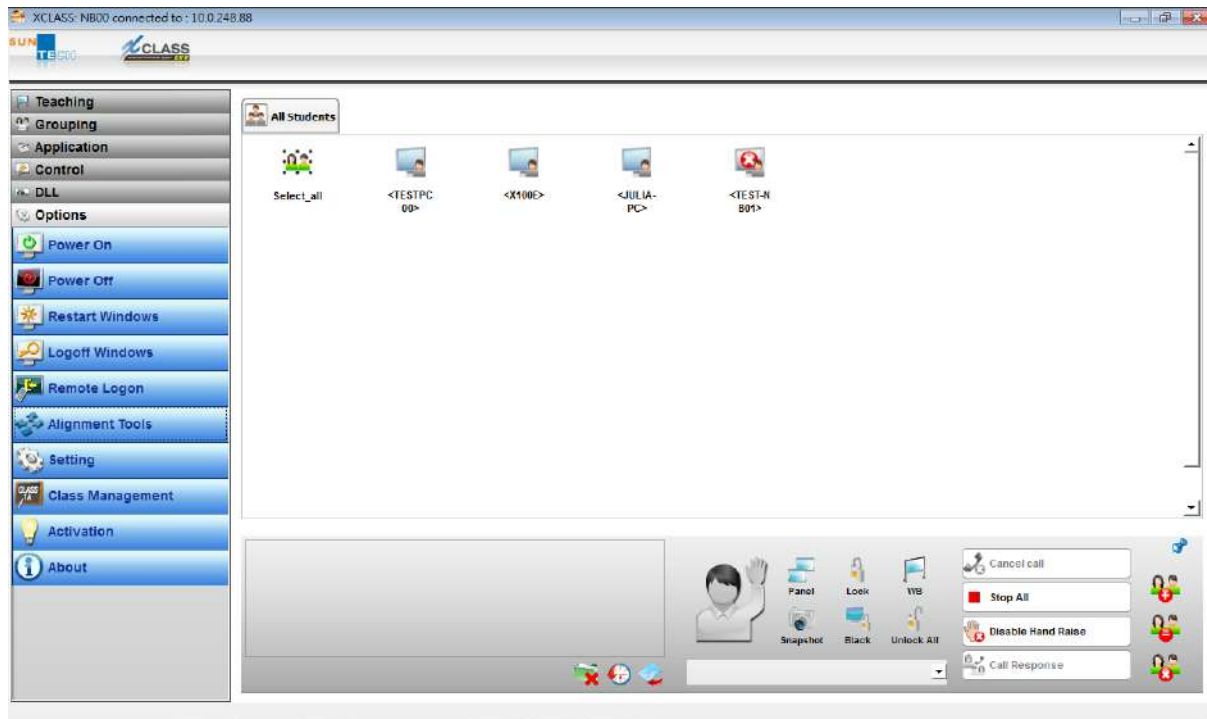
- Save... : To save the sent message to a file
 Clear : To clear up all sent message on both teacher and student screen
 Close : Close the windows

4.2 Switch between Panel Mode / Full Screen Mode


Panel button  allows teacher to switch between different modes of the user interface in XCLASS. This gives an easy way for the teacher to switch between the Windows Desktop interface and the XCLASS interface.

4.2.1 Full Screen XCLASS Mode

Display the full XCLASS interface with seating plan and functions for teacher to use.



4.2.2 Panel Mode


After Panel button  is clicked, the user interface of XCLASS will change to hidden mode by default as displayed as below (If teacher has unchecked the “Hide Panel in Teacher Show” checkbox in <Setting> located at <Options> Panel, then the user interface will not hide by clicking the Panel

button ).

The panel interface is hidden on the side of the windows and it will appear on the screen when user moves the cursor over it.






User can click  button to return to the full interface mode.

4.3 Screen Capture



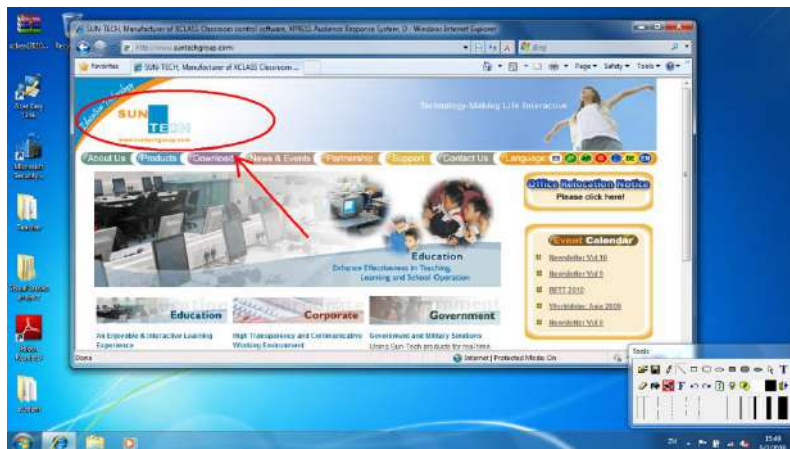
The screen capture function allows teacher to have a real time screen capture if needed.


Teacher can click  to take a snap of the current interface, and then a window will pop up for saving the captured image.

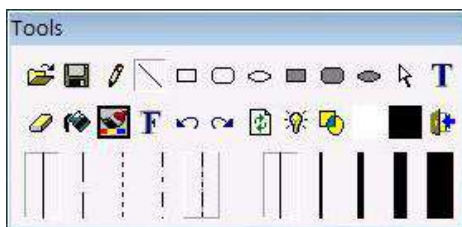
4.4 Smart Pen



The Smart Pen is a marker tool. It provides tools of drawing, typing, editing, deleting and some useful functions for presentation.
















1. Click <Smart Pen>  from the <Teacher Toolbar>.
2. The <Smart Pen> tool screen will appear as below.
3. Click any drawing tools from the Annotated Demonstration Tool to start demonstration.
4. Teacher can move the mouse pointer on the Tool to view the hints of its function.



Annotated Demonstration Tool

Function List:

- Click  to open file.
- Click  to save the drawing outcomes.
- Click  to erase the unwanted drawing outcomes.
- Click  to undo or  redo the last change.
- Click  to remove all drawing outcomes on the current screen.
- Click  to change the text font, font size, and font style.
- Click  to type the words or numbers on the screen.
- Click  to get the blackboard on the screen.
- Click  to get the whiteboard on the screen.
- Tick  check box to get the transparent effect for the drawing outcomes.
- Tick  check box to blink the next drawing outcome a several times.
- Click  to exit the Smart Pen Tool.

4.5 Keyboard and Screen Lock



Lock/Black


With <Lock/Black>, teacher can lock both student PC's keyboard and mouse.

- 1 Highlight the icons of student PC to be locked; it can be one student, groups of students, or the whole class. It is not necessary to highlight any students in the seating plan if teacher wants to lock the whole class.



- 2 Click the  button to lock the keyboard and mouse of the students.



3. OR Click the  button to lock the student's PCs with black screen and keyboard & mouse locked.

Unlock

1. Highlight the icons of student PC to be unlocked; it can be one student, groups, or the whole class. It is not necessary to highlight any students in the seating plan if teacher wants to unlock the whole class.



2. Click the  button to release the lock of the selected PCs

4.6 Call Response

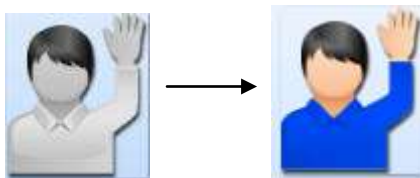


If students get questions during the lesson, they can press **F12** to ask for teacher's help. A



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hand will be showing up on student icon. 1> At the same time, "Hand up" icon is colored and students' names are displaying in the drop down box under the icon




To answer the hands-up, simply follow below steps:

1. Select one of the hand-up students at the drop down box (by default, the first one pressed F12 will be displayed on top of the scrollbar.).

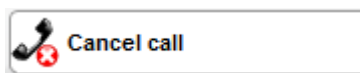


2. Click  to response to the request by intercom.



3. Click the shading <Intercom> button  from the <Teaching Panel> to end the call with current student.
4. To response to other student, teacher can simply choose his/her name from the drop down box and click Call Response directly.

4.7 Cancel Call



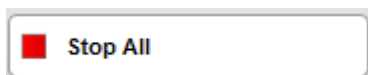
To clear all question requests, simply click

4.8 Disable Hand Raise



Simply click  to disable student [F12] hand-up function

4.9 Stop All



Click  to stop all current commands and running functions

5. Group Discuss

- <Pairing> Pair students consecutively and then launch <Group Discussion>.
- <Random Pairing> Pair students randomly and then launch <Group Discussion>.
- <Group Discussion> Allows students in the same group to exchange their viewpoints on assigned topics. The voice recording function in teacher PC is used for backing up dialogues for various groups.




5.1 Grouping

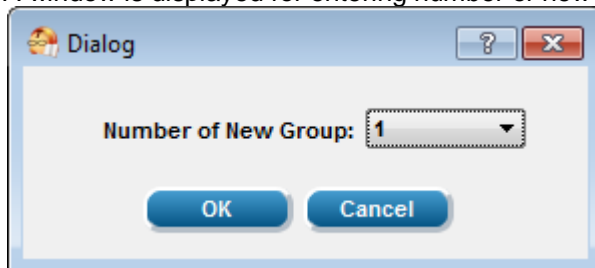
Grouping is an important step before teacher carries group discussion.

Add / Remove Group



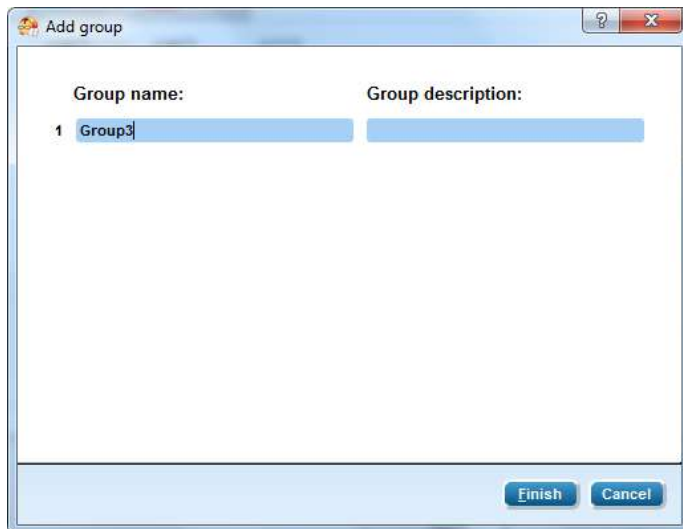
Add a new group

1. Click  icon below the seating area to add a new group.
2. A window is displayed for entering number of new group.

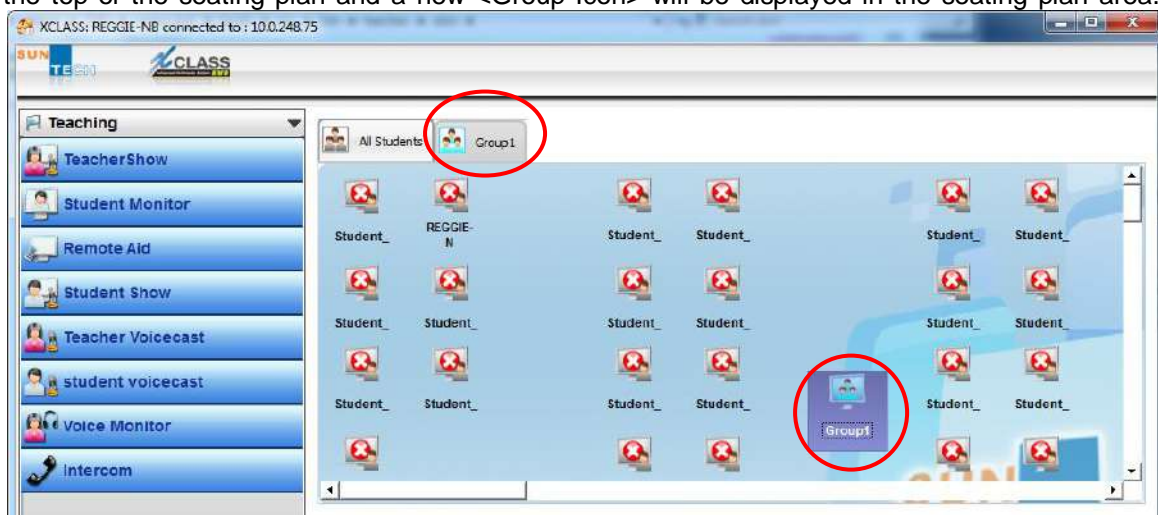


3. Enter group name:

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4. After entering name and press <Finish>, a new group is formed. A group TAB will be added on the top of the seating plan and a new <Group Icon> will be displayed in the seating plan area.




5. Teacher can change the group icon picture by right clicking the tab and choosing “Change icon”



Remove a group

1. Select group icon.

2. Click  icon to remove the selected group.



OR just right click the group icon and select “Remove Group”.

Cancel all group(s)



Click cancel group icon to break all group(s).
(Group(s) will NOT be removed. Only students will be removed from group)

Add student in group

1. Access to the “All Student” tab.
2. Select a student or highlight a group of students (To select several students at one time, press <Ctrl> from the keyboard).
3. Use the mouse to drag the selected student(s) to the TAB or the Icon of the group which teacher wants to add in.

Remove student from a group

1. Access to the TAB of specified group.
2. Select a student.
3. Right click the student icon and select “Remove Student”.



5.2 Group Discussion

XCLASS allows selected students to join in a virtual discussion in forms of voice and text. In this environment, students discuss with group members and other groups will not disturb them. Teacher can seat in as an audience or take part in a group’s discussion randomly.

5.2.1 Pairing

- Gather students of **consecutive** numbers in pair.
- If the total sum of the class is an odd number, then the last group would be in three’s.
- Discussion will be launched automatically after pairing.
- The size of pairing can be changed in the drop down box in <Setting> located at <Options>:

Default Group User Count:

. If the number is set to “2 students”, then the pairing group size will be 2.

5.2.2 Random Pairing

- Almost identical to <Pairing>.
- Gather students **randomly** other than gather consecutively.
- Discussion will be launched automatically after pairing.
- The size of pairing can be changed in the drop down box in <Setting> located at <Options>:

Default Group User Count:

. If the number is set to “2 students”, then the pairing group size will be 2.

5.2.3 Group Discussion

There are two ways to launch group discussion:

Way 1: Highlight the students and click the <Group Discussion>, all those students will start the discussion in the same group

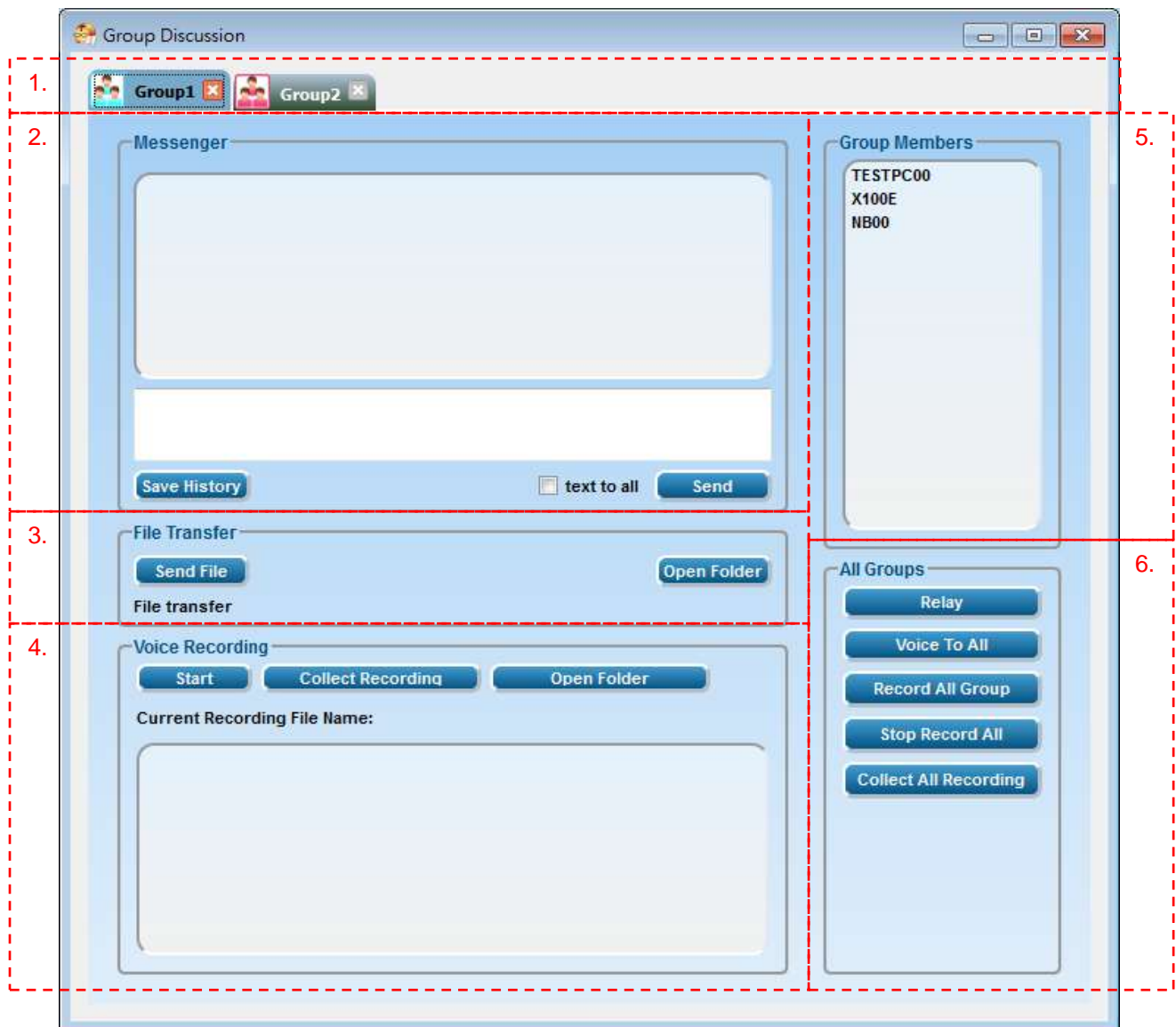
Way 2: Group the students in different groups. Highlight the Group icons and click the <Group Discussion>.

It is not necessary to highlight any groups if teacher wants all groups to start group discussion.

5.2.4 How to use Group Discussion

Group Discussion Window

Teacher can join a particular group by clicking the corresponding group tab one at a time. Once teacher is joined, students in the group could see teacher name on the top right list (section 5).





- | | |
|------------------|---|
| (1) Top tab: | Display the group(s) tab for selection |
| (2) Top left: | Display the dialogue, and it is the area for message typing |
| (3) Middle left: | Send file to a selected student |
| (4) Bottom left: | Voice recording section |

- | | |
|-------------------|--|
| (5) Top right: | List of members within the current group |
| (6) Bottom right: | Actions applied for all groups |

Teacher and student can resize the group discussion window by dragging its right-bottom corner.

Exit the Group Discussion

- Click  on the tab to exit the discussion of **current** group
- Click  on the group discussion dialog to cancel all groups' discussion
-

P.S. Student is NOT allowed to exit the Group Discussion function by themselves.

Messenger

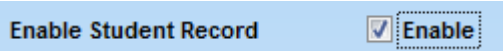
1. Students can type message in the second half of message box and click "Send" to chat with other group members.
2. Click "Save History" to back up the dialogue in a file.

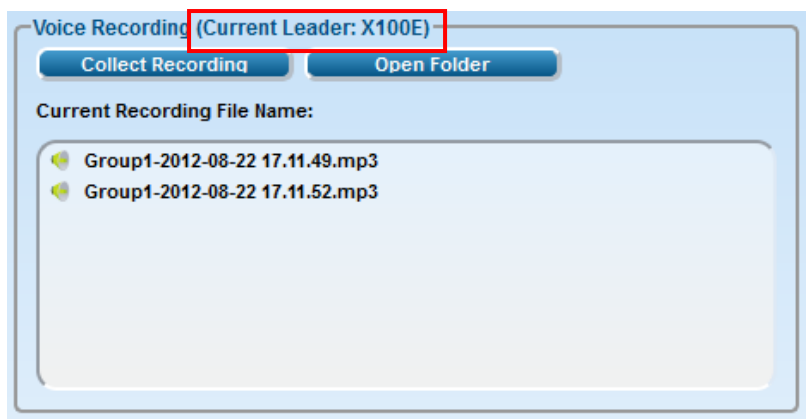
File Transfer

Allow teacher and students to send file to a selected group member:

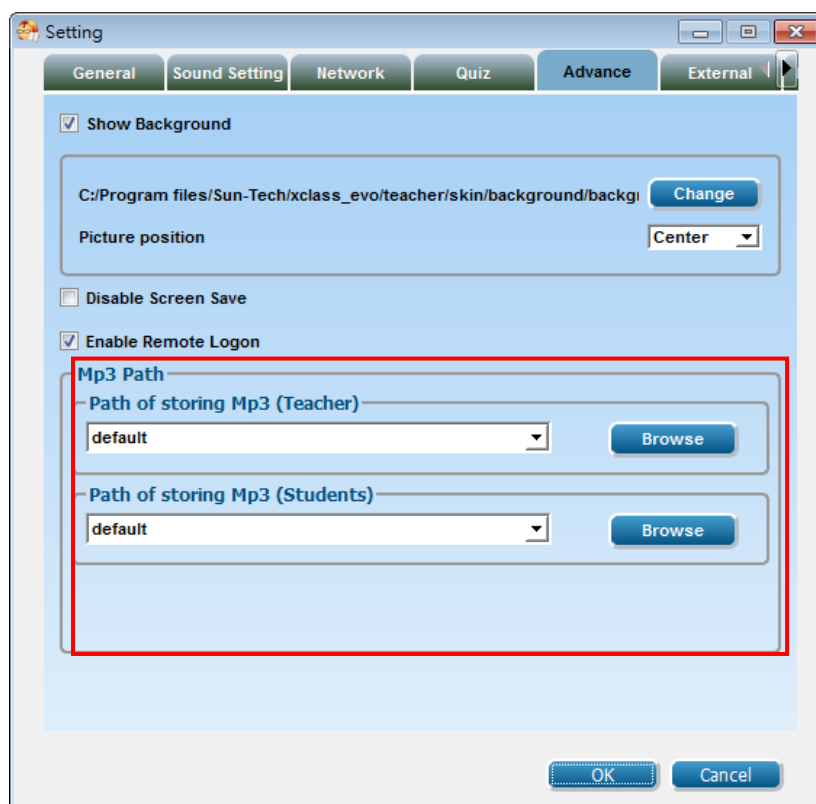
1. First select a group member from the group member list in the right column.
 2. Click "Send file", the sender's screen will pop up a file browser to select a file from local PC.
 3. After selecting a file, click "open" to start the send process.
 4. The process bar will show 100% when the file is transferred successfully.
- Default receiving folder of student is C:\Program Files\Sun-Tech\XClass EVO\Student\Save
Default receiving folder of teacher is C:\Program Files\Sun-Tech\XClass EVO\Teacher\Save

Voice Recording (Exist only when one has proper recording device)

1. To record the utterance of the discussion group, click <Start> in the voice recording section to start recording the current group or <Record All Groups> to start recording all groups. To stop recording, simply click the <Stop> or <Stop Record All> button. Recorded file will be showing in the rectangle list box on the bottom.
 - If teacher chooses "Enable Student Record" in <Setting> from <Options> panel , then the authority of recording a single group's discussion is passed to the first student of every group, in which students are arranged alphabetically. Then other students could see his/her name as the Current Leader.



2. To collect the recording from groups, teacher can click <Collect Recording> or <Collect All Recording>. Then system will collect all recorded audios from current group or all groups. The name of collected file will be displayed in a pop-up message. Teacher can select <Open Folder> to open saved location.
3. To change the default save location, go to main panel: <Options> -- <Setting> -- Advance tab. In the "Mp3 Path" box, click "Browse" to choose your desired save location. (Default storing folder is C:\Users\(\current user)\Music)



Other Functions

Voice to All

Voice To All

- Teacher can broadcast his/her voice to all groups by pressing <Voice to All> button.

Relay

Relay

- Teacher can broadcast current group's discussion to all other groups by pressing <Relay> button.

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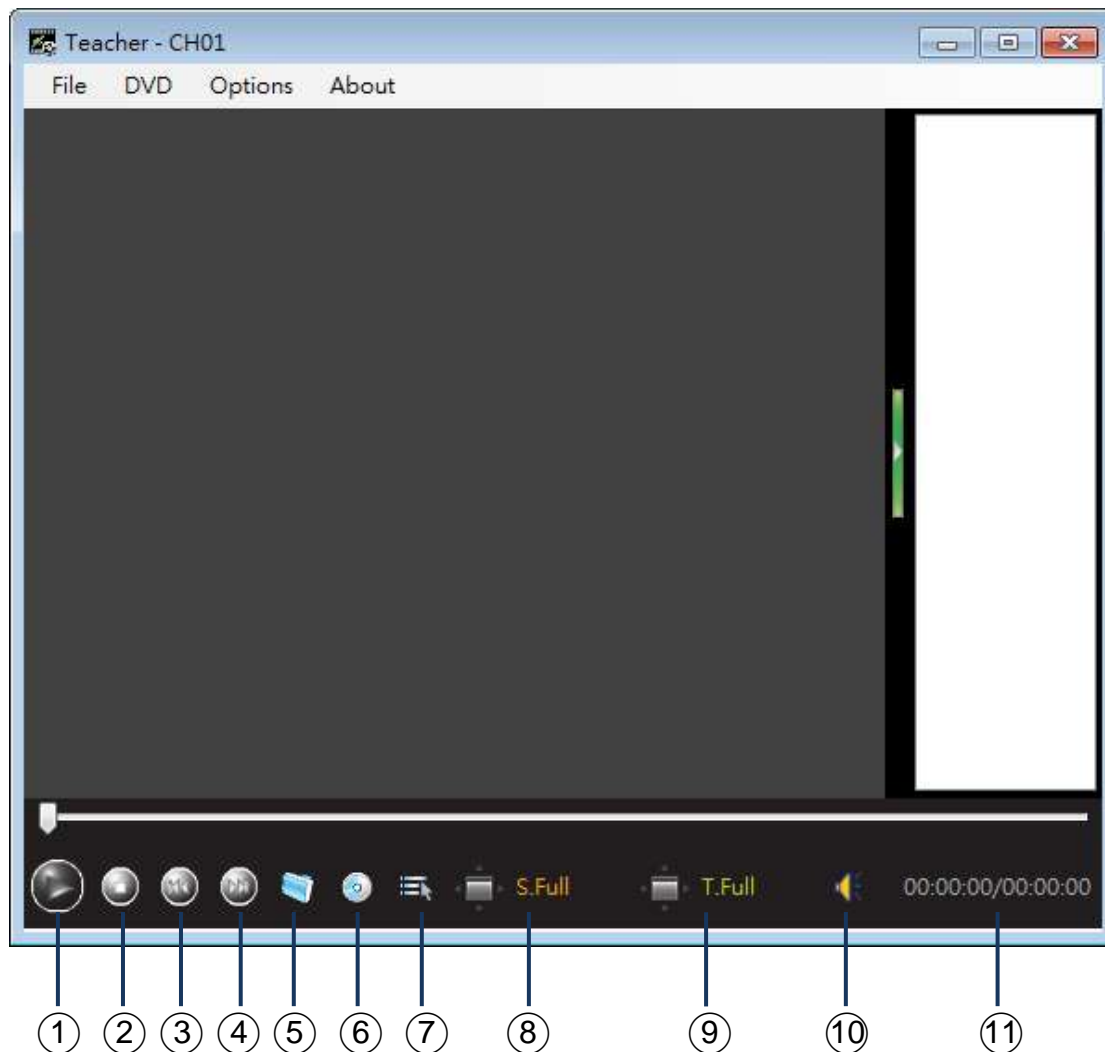
6. Application Panel

<Video Player-XPLAYER>	allows teacher to play various kinds of multimedia contents to different students simultaneously.
<AV Live>	allows teacher to broadcast captured media with AV controller
<File Transfer>	allows teacher to send and receive files/folder from students' PC.
<Quiz>	provides a mean of assessment or evaluation of students' learning progress during the lesson.
<Whiteboard>	allows teacher to use the smart pen feature
<Lesson Recorder>	allows teacher to record any progress of screen during lesson
<Lesson Reminder>	a web-based module of XCLASS Multimedia Classroom Management Software with the intention of organizing your lessons

Application Panel function keys:

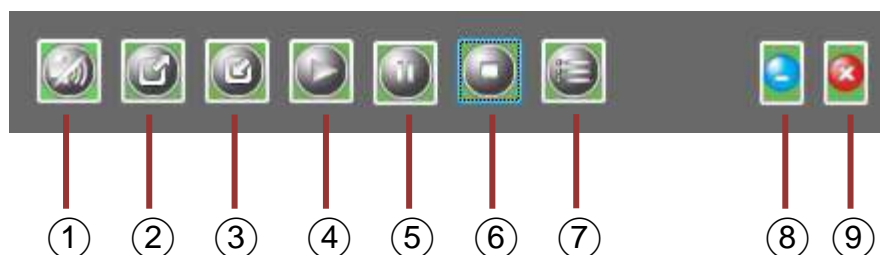


6.1 Video Player - XPLAYER



- | | |
|-----------------|---|
| 1. Play/Pause | Play/Pause video file |
| 2. Stop | Stop playing |
| 3. Pre Chapter | Previous Chapter, it is used for playing DVD only |
| 4. Next Chapter | Next Chapter, it is used for playing DVD only |
| 5. Open File | Browse video file and choose it to play |
| 6. Open DVD/VCD | Play DVD/VCD media directly |
| 7. Menu | DVD/VCD menu |
| 8. S.Full | Student Full Screen mode |
| 9. T.Full | Teacher Full Screen mode |
| 10. Volume | Adjust media volume |
| 11. Timer | Display the playing time of video |

XPLAYER Panel



- | | |
|--------------------------|--|
| 1. Mute All | Use to mute all players. |
| 2. Student Full Screen | Display full screen in student XPLAYER |
| 3. Student Normal Screen | Display student XPLAYER in window mode |
| 4. Play | Start to play or broadcast |
| 5. Pause | Pause the XPLAYER |
| 6. Stop | Stop all XPLAYER |
| 7. Arrange | Arrange the display size and position of teacher's XPLAYER |
| 8. Minimize | Minimize the panel |
| 9. Close all | Close all XPLAYER on student and teacher side |

6.1.1 To Broadcast DVD to Student PC

For DVD features, teacher can select the audio track and subtitle while broadcasting the video. As the common features, teacher can use it to apply with student for broadcast.



6.1.2 To Broadcast Media File to Student PC


Steps to use XPlayer:



1. Select some students or a group from XCLASS Main <Classroom Control Panel>.




2. Select the channel you would like to broadcast
(If teacher is going to broadcast different videos to different groups, please select a unique channel number for each group)

3. Click  icon to open and play video file/ Click  to play DVD from the drive.


4. Click  button to play and broadcast the material to the student PCs.

5. Click  to display Student full screen. Click  to display Teacher full screen.

6. Click  button if teacher wants to mute all sound in XPLAYER.

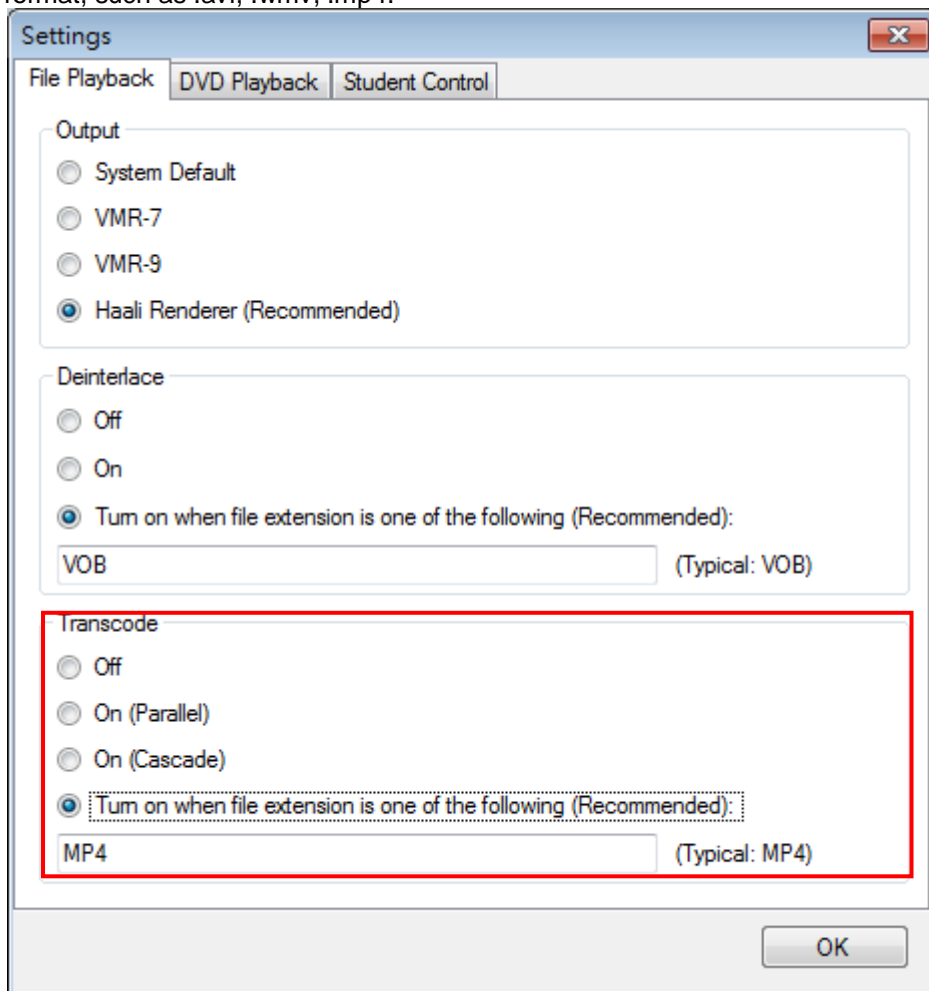
7. Tick "Always Audible" in **Options** menu if teacher wants to hear all XPLAYER opened on teacher's PC



8. Click  to close all the XPLAYER from the panel.

Remark:

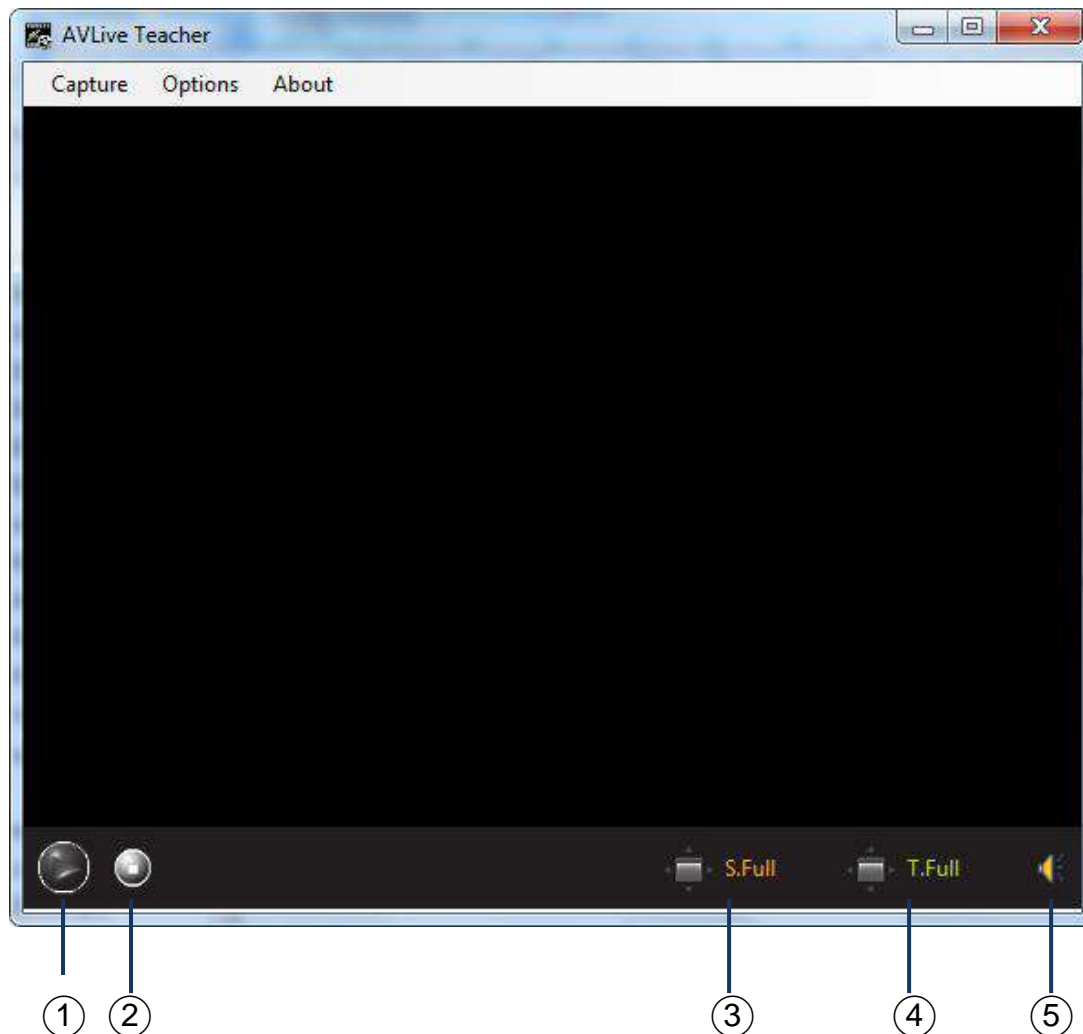
1. Supporting most video and audio file types, including:
Audio: .mp3, .wma, .flac, .aac
Video: .avi, .divx, .wmv, .mp4, .vob, .mpg, .mpeg, .m4v, .mkv
and many more.
2. Cannot support ALL kinds of media files. If XPlayer cannot play your media file, please go to <Settings> -- <File Playback> tab.
In the "Transcode" box, the "Turn on when file extension is one of the following (Recommended)" is selected by default. Try other options like "Off", "On (Parallel)" and "On (cascade)". Then open your media file again.
If the file still cannot be played, we recommend you to convert your media into commonly used format, such as .avi, .wmv, .mp4.



3. Intel video chipset may cause lower picture quality

6.2 AV Live

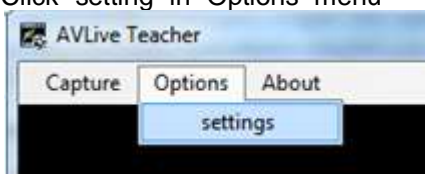
Teacher can broadcast captured video to students by this feature.



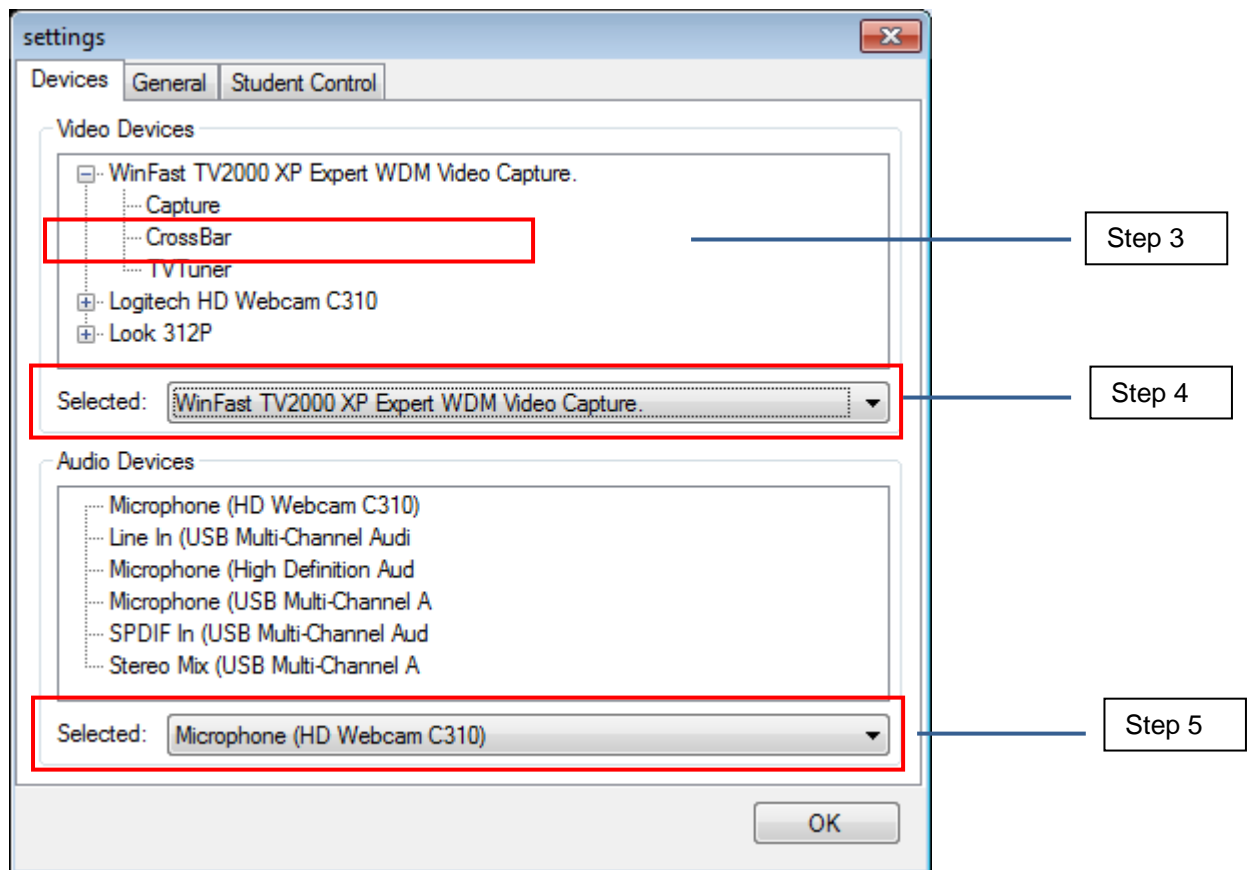
- | | | |
|----|--------|--|
| 1. | Play | Start to Capture and Broadcast Video/Audio to Students |
| 2. | Stop | Stop Screen Cast |
| 3. | S.Full | Student Full Screen mode |
| 4. | T.Full | Teacher Full Screen mode |
| 5. | Volume | Adjust the Volume of Audio Received |

Steps to use AV live

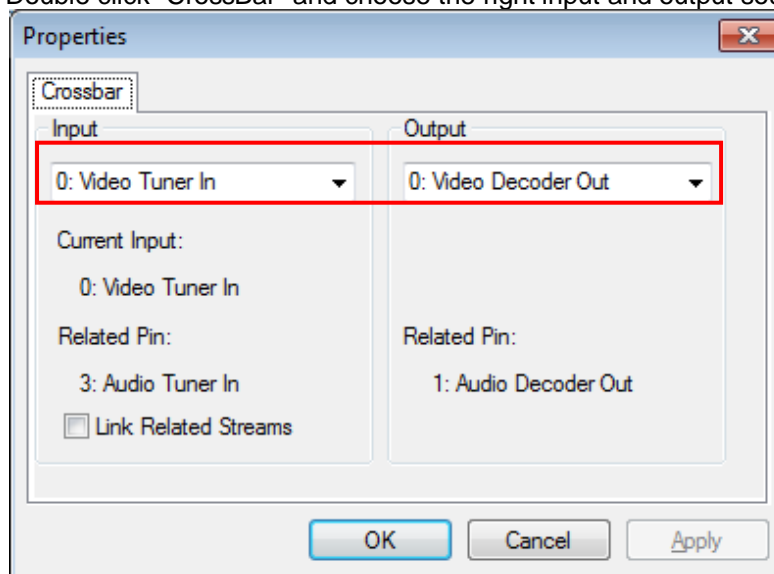
1. Connect the capture device to teacher PC
2. Click "setting" in "Options" menu



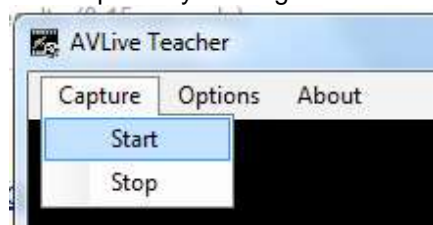
3. In <Video Devices> box, expand the capture device from which the captured video will be streaming to students.



4. Double click "CrossBar" and choose the right input and output source.



5. Make sure to select the same video device from the drop down list.
6. Select the corresponding audio device.
7. Click "OK" to save the settings.
8. Start capture by clicking "Start" in "Capture" menu



Or just click the “Play” button on the left bottom.
Then student side will start to receive the audio and video data.


9. Click “Stop” in “Capture” menu to stop capturing.
Or just click the “Stop” button on the left bottom.

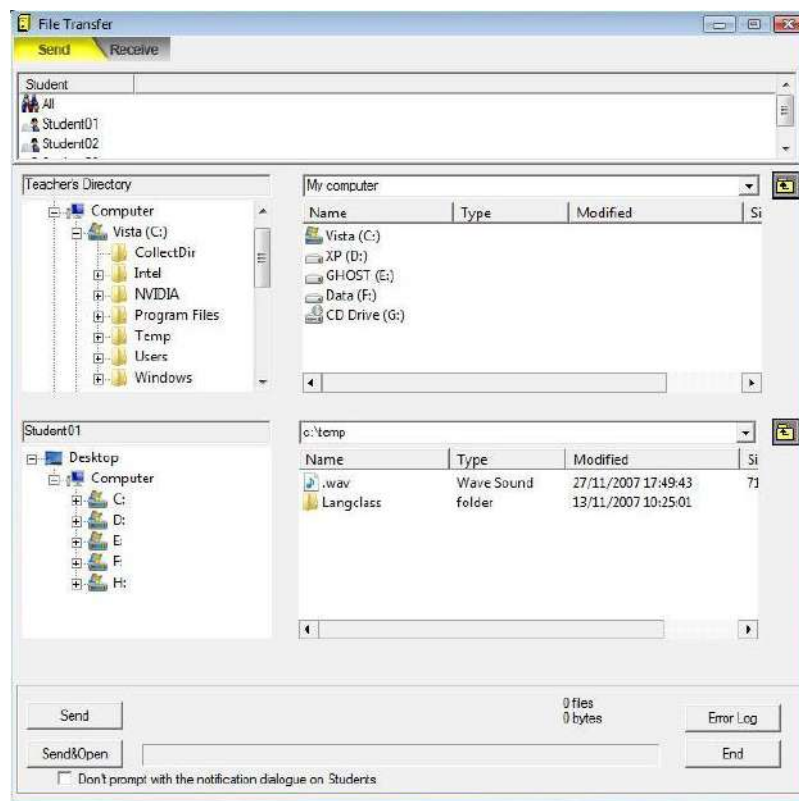
Remark: AV live can also work together with Pro one. Please refer to section 9.1 for details.



6.3 File Transfer


Teacher can transfer files or folders to any selected students. The selected files or folders will be copied to the designated location of Student PC. Conversely, teacher can also receive a file or folder from Students stored in the designated location under teacher's control.

Sending File

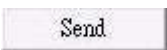
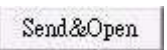
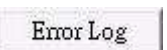
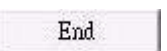

1. Click <File Transfer> button  from the XCLASS <Application> panel and the File Transfer window pops up as below:



2. Click  tab to send files/folders to Student(s).
3. Select Student icons to receive Teacher's particular files/folders.
4. Select the files/folders to be sent from the appropriate location. In the source session pane, Teacher can either input its location in the text box besides the Teacher's Directory, click <Up one level>  to search it from the current folder or browse from the directory tree to specify another location and file on the Teacher computer.



5. Select or input the location of the file received by students in the text box besides the Students' Directory under destination session pane. Click <Up one level>  to search it from the current folder or browse from the directory tree to specify a new folder for the transmitted file saving in student computers.


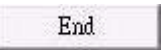

Remark: Teacher's and Student's default selected paths can be predefined under the "FileTrans.ini".

6. Click  to send the file(s)/folder(s) to Students.
7. Click  to send the file and launch it remotely with associated program on the selected Student computers.
8. Click  to check for any error during the file transferring process.
9. Click  or  to close the File Transfer window.

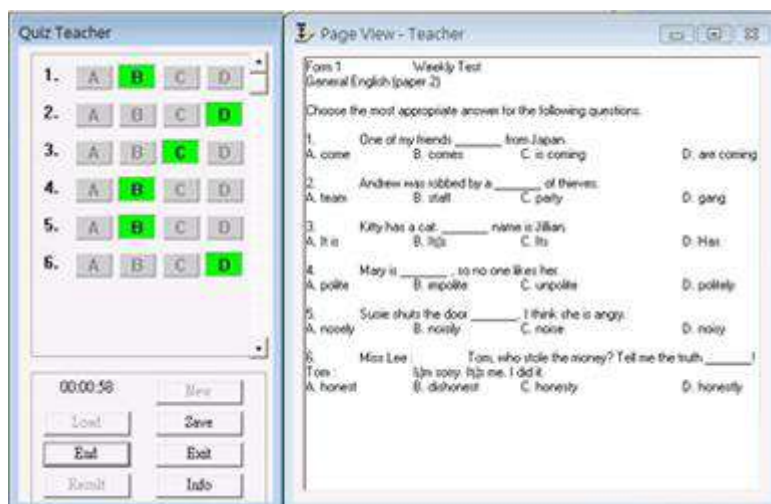
Note: Select "Don't prompt with the notification dialogue on Students" option to skip the notification dialogue display on Student(s) after the transferring process.

Receiving File

1. Click <File Transfer> button  from the XCLASS <Application> panel.
2. Click  tab under the File Transfer window.
3. Select student icons to send file/folder to teacher.
4. If files or folders were previously sent to students during this session, the source (Student's) and destination (Teacher's) section pane displays records of the distributed files or folders.

To collect only recently sent files/folders, make no changes in the source and destination sections. If not, input or browse the file/folder to be collected from Student PC.
5. In the destination section pane, select the file location of the Teacher PC to receive the file/folder from Student.
6. Enable the "Delete file(s) on Student after receive" option to delete file on Student PC remotely after the receiving successfully.
7. Click  to collect the selected file/folder and the system will assign different folders for each student's file under the directory of the designated path for the file storage.
8. Click  or  to close the File Transfer window.

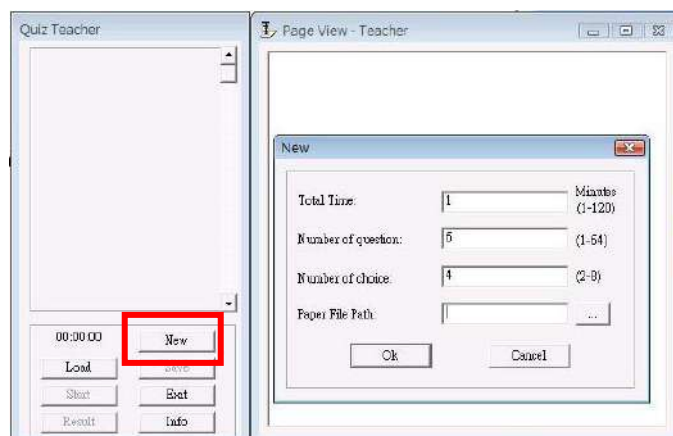
6.4 Quiz



<Quiz> is an easy-to-use assessment instrument. As you will see, it is enjoyable to use from both teacher's and students' point of view. <Quiz> provides real time test for the whole class or a selected group of students. It monitors the test time and marks the questions for the teacher.

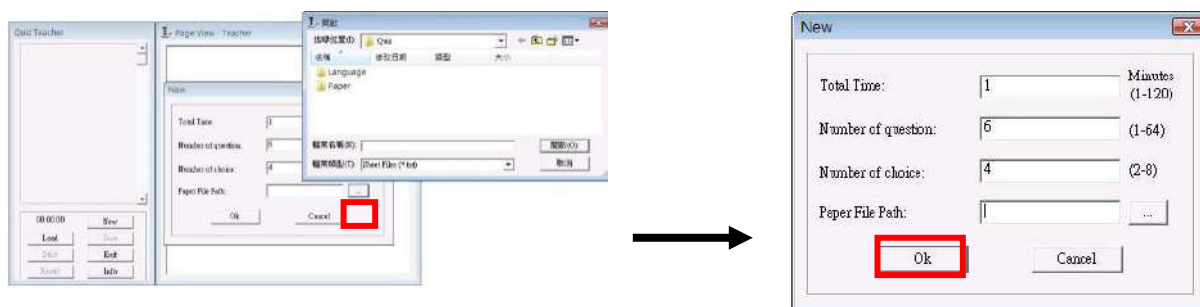
How to use <Quiz>

1. To start, click to the <Quiz> button in Teacher control panel.
2. Click <New> button from the <Quiz> panel to prepare the quiz or load the pre-set test paper.

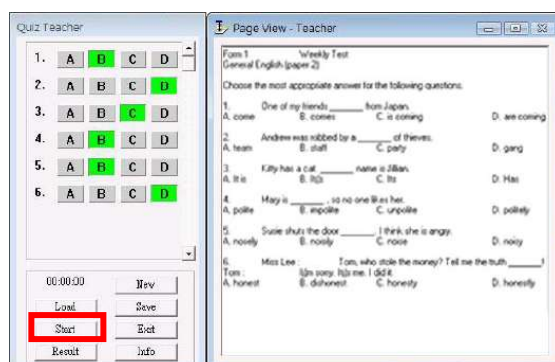


3. Input the time, Number of question and number of choice for the quiz.
4. To create a quiz paper, please type in all questions and choices in the page view window.

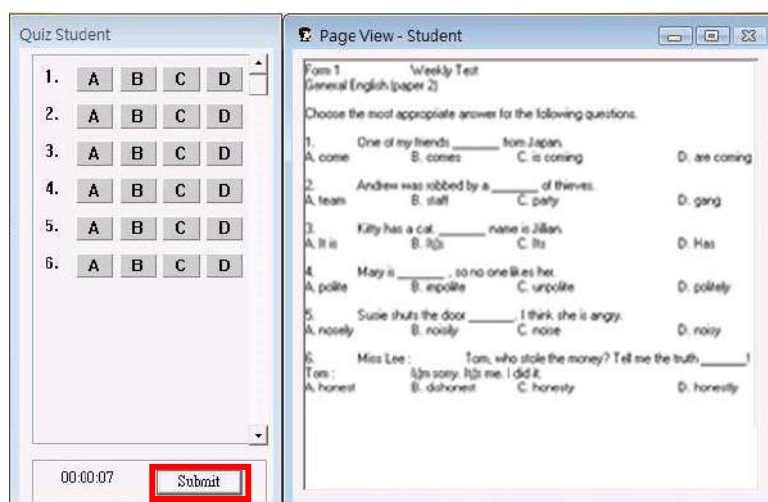
To load pre-set test paper , click “...” button to load from the directory and click <OK> in the monitor panel to confirm.



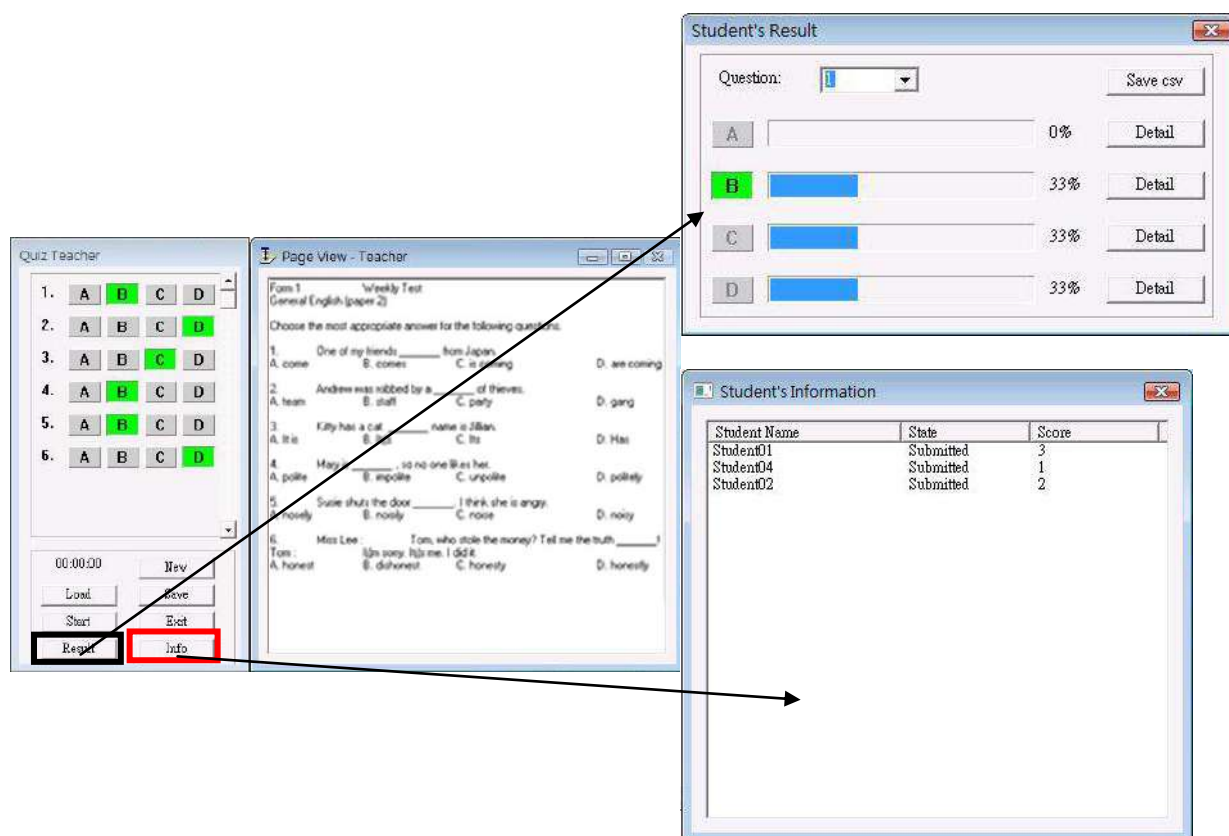
- Now teacher will have the questions loaded in the question plate. Set the answers by clicking the keys in the left. Then click **<Start>** to begin the quiz.



- Student now will see the full **<Quiz>** panel with the questions displayed on the question plate. (Of course, they won't see the answers as teacher defined!) Once the quiz starts, the timer will begin to monitor. When time is up, students' work will be submitted automatically. Students who have completed the quiz may click the **<Submit>** button to send their work to teacher PC.



- Quiz is over! Now teacher may click **<Result>** in the monitor panel to evaluate the students' know-how on a particular question. Percentage bars reveal the student ratio of the corresponding answer options. Click **<Details>** to identify the students when necessary. Click **<Info>** to view the score of the students after the quiz.



Hint: Currently, <Quiz> only supports txt. files, in other words, pictures can hardly be shown in the question plate. But teacher may adapt to it by switching to word documents, spread sheets and web resources to take the place of the default question plate.

For new Quiz module, please refer to the Quiz User Manual or contact our Sales team for further information.

6.5 WhiteBoard


Refer to the section 4.4 smart pen.

6.6 Lesson Recorder



Teacher can record his or her PC screen activities during the lesson. By utilizing the <Lesson Recorder> function, teacher can start or stop the recording at any time and benefits from the various uses of the recorded video.


1. Click <Lesson Recorder> button. Then move the mouse to the top edge of the screen until the <Recorder Bar> appears.



2. Click <Record>  to start the lesson recording.


A notice will be displayed to inform the start of recording. Click OK to start recording right away.


3. If teacher wants to record the voice at the same time, click <Sound>  **before** recording to change it to .

4. Click <Pause>  to pause the recording temporarily. Teacher can click <Record> to continue the recording.

5. Click <Stop>  to stop the recording.

- A notice will pop up to inform the video being saved successfully.

- Teacher may click <Open>  to view the recorded video. The default storage path could

be found by clicking <Setting>  button. Teacher could change the storage path either by inputting the path or click the browse button to specify the destination folder.

6. Click <Exit>  to exit <Lesson Recorder> function.

6.7 Lesson Reminder

<Lesson Reminder> - Please refer to the Lesson Reminder Manual.

7. Control Panel

<Disable Web>	Controls student's web-browsing activities
<Remote Start>	Allows teacher to remotely open various applications and websites at selected Student PCs
<Application Monitor>	Shows all students' current applications and allow teacher to remotely terminate or disable selected students' application programs or websites
<Disable USB>	Allows teacher to enable / disable the use of the USB storage on the selected Student PCs
<Printer Monitor>	Allows teacher to monitor and manage the usage of the print jobs of all students
<Keyboard Monitor>	Allows teacher to monitor all the keyboard input on student's PC

Control Panel function keys:



7.1 Disable Web

Teacher can control student's web-browsing activities by using the Disable Web function. Under the setting, teacher can block all students' web-browsing activities or only allow student to surf specific websites.

Launch Application

1. Click  Disable Web in <Control> Panel.
2. Disable Web window will appear as follow:



New

Create a new entry to the web address list

Delete

Remove an entry from the web address list

Load

Load a pre-set web address list from the local PC


Save

Save the current web address list to the local PC.

Note: The file name of the saved list is recommended to use the .ini extension


Policy

Enable All Allow students to browse all public websites.

Select "Enable All" and click .
"Enable All" is set as default in the system

Block All

"Block All" is a function that forbids students to browse any public websites.

Select "Block All" and click .

Enable Some “Enable Some” is a function that partially restricts students to browse public websites. Students can only browse website(s) listed on the left.

Disable Some “Disable Some” is a function that partially restricts students to browse public websites. Students are NOT allowed to browse website(s) listed on the left.

Block All Https ☐ **Block All Https**

When under Enable Some or Disable Some mode, “Block All Https” additionally blocks all encrypted websites (which start with https://).

Note: To block custom ports for proxy server, go to <Options> --<Settings>--“Disable Web” tab. Then input the port numbers. Please refer to P.55 <**Disable Web**>for details.

Close

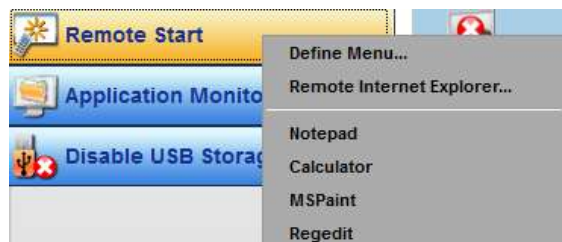
To exit the Disable Web window

7.2 Remote Start

XCLASS allows teacher to send remote command to run programs on student PCs.

Remote open Programs

1. Select student(s) (individual, group or all) to receive command.
2. Click <Remote Start> and choose the program from the context menu.
3. Then a ‘✓’ will appear asides the name of the program and the program will be running in student PCs.
4. To close the program on student PC, click <Remote Start> again and choose the program to be closed.



Remote open Websites

1. Select student (individual or group) to receive command.
2. Click <Remote Start> and choose “Remote Internet Explorer” to pop up the “Start Remote IE” window.
3. Enter or search the previous website address teacher would like to open for students.
4. The corresponding website will be automatically opened in students’ PCs.




Edit the context menu

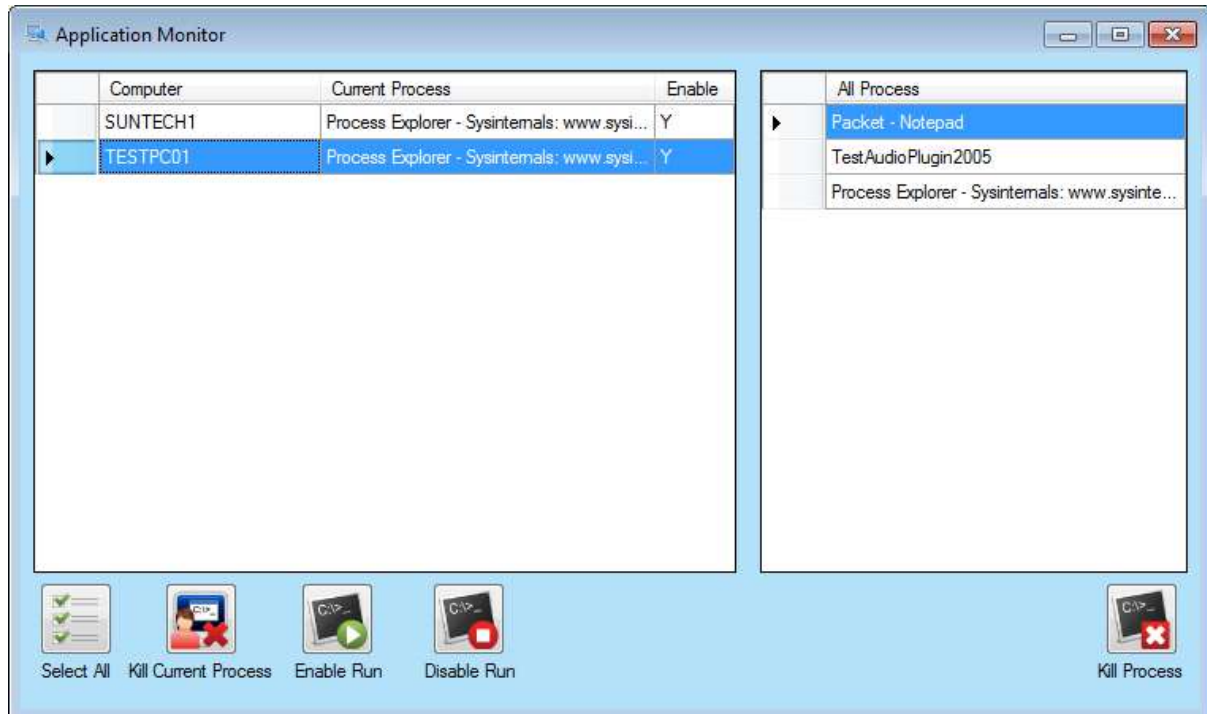
1. Click <Remote Start> from <Control> panel.
2. Click “Define Remote Menu” to pop up this diagram.
3. Click “Add” button to add either programs or websites to the context menu.
4. Click “Browse” from the column of “Program Path” to search for the execute command (.exe) of the programs or I.E.
5. Name the corresponding programs or website on the “Menu Name” column.
6. If teacher wants to add a website address, teacher should enter the website address at “File Path”.
7. Click “OK” to finish and the corresponding program or website will be added to the context menu.

7.3 Application Monitor

XCLASS system includes a screen monitor function to monitor each student's screen from teacher PC. To resolve the inefficiency of monitoring students one by one, the Application Monitor is developed to monitor all students processing tasks.

Application Monitor

Press the button of Application Monitor  **Application Monitor** on the <Control> panel; an Application Monitor window appears. Then, all of the selected students will be shown inside the Window, together with the activities they are engaged in.



Application Program termination

- Select the student whose current running application program is to be killed by teacher



- Click the button of <Kill Current Process>.
- Alert message will pop up to confirm the termination of current application process. Click **Yes** to confirm the termination, **No** to cancel the termination.

- To kill other running application program, select the student from the left session pane and the program that teacher wants to kill from the right <All Process> session pane.



- Click the button of <Kill Process>.
- Alert message will pop up to confirm the termination of current application process. Click **Yes** to confirm the termination, **No** to cancel the termination.

Disable running new application programs

- Select the student(s) that teacher wants to disable running new application program.



2. Click the button of <Disable Run>. Student(s) cannot run new application programs so that they can only concentrate on application programs or jobs that are running already.
3. An “N” will be displaying in the <Enable> entry of that student, indicating he/she is in Disable Run mode.





4. To enable student(s) to run other programs, click the < Enable Run> button. The status of the student will be back in Enable Run mode (a “Y” showing in Enable column).

7.4 Disable USB Storage

The Disable USB Storage function is for teacher to limit the use of external USB storage in the Student PCs.



- Unblock : Allow the selected student PCs to connect to an external USB storage
Blocked : Block the new USB storage connection on the selected student PCs
Ok : Accept change and close the dialog
Cancel : Cancel change and close the dialog
Undo : Undo changes

1. The left window shows the available student PC(s) who are ready to add.
The right Window shows the selected student PC(s).
2. To select student(s), please highlight the student(s) in **Unblock** list on the left hand side (holding "Ctrl" key + pressing left mouse for multiple selection).
3. Then click >> button  to add the selected student(s) to the right hand side's **Blocked** list or click **Block All** to select all available student(s) and add to the **Blocked** list.
4. To cancel selection or unblock USB storage usage, highlight the student(s) teacher wants to unselect or unblock in **blocked** list then click << button  or **Delete All** to remove all selected student(s).
5. After selection, please click **OK** to confirm the selection.

Note: the function CANNOT block the external USB storage which is ALREADY connected to the PC.

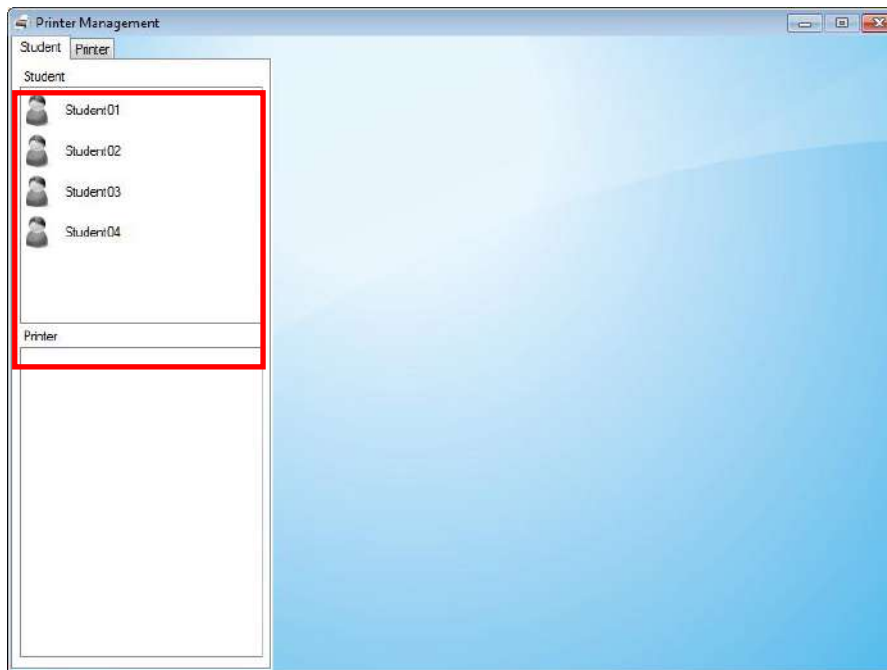
7.5 Printer Management

XCLASS provides a function for the teacher to monitor and manage the usage of the print jobs for the students.

Click <Control> panel <Printer Management> to start the printer monitor panel.





After the Printer Monitor is started, the student view will be shown as default. There are 2 views provided for teacher's supervision. One is Student View and other is Printer View.

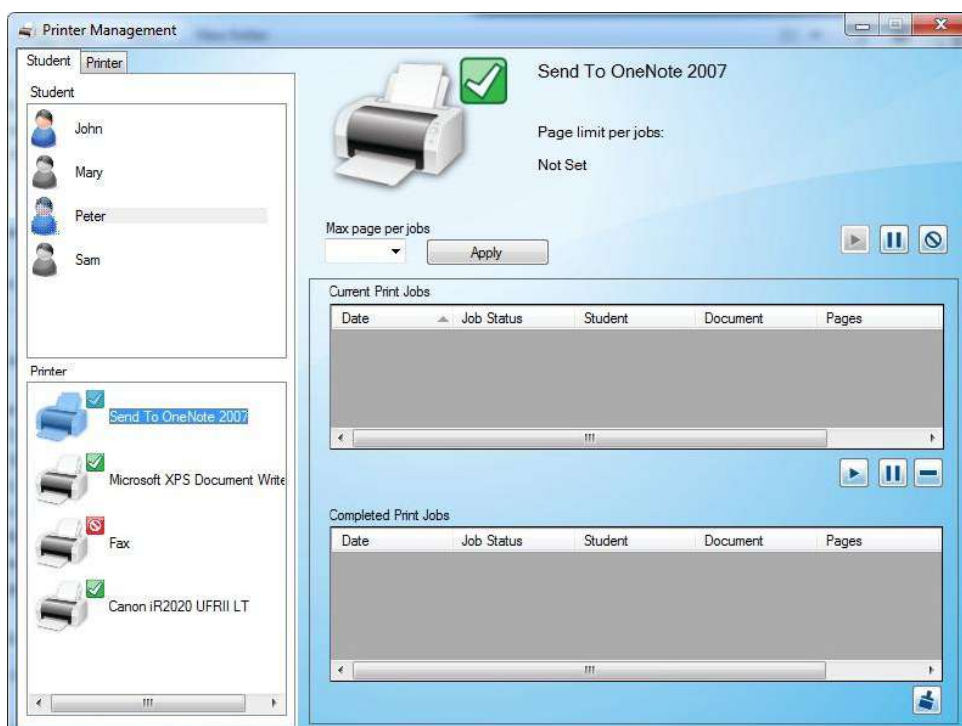


7.5.1 Student View





In Student View, teacher can find and monitor specific student printing activity with ease. Teacher can switch the view to Student View by clicking the tab of “Student”.

In the student list of the student view,  mean this student is connected and  mean this student is disconnected.

Once the teacher clicks the student icon in the student list, the printers which are connected with the student will be listed in the printer list. Teacher can select multiple printers in the printer list to view their status concurrently.



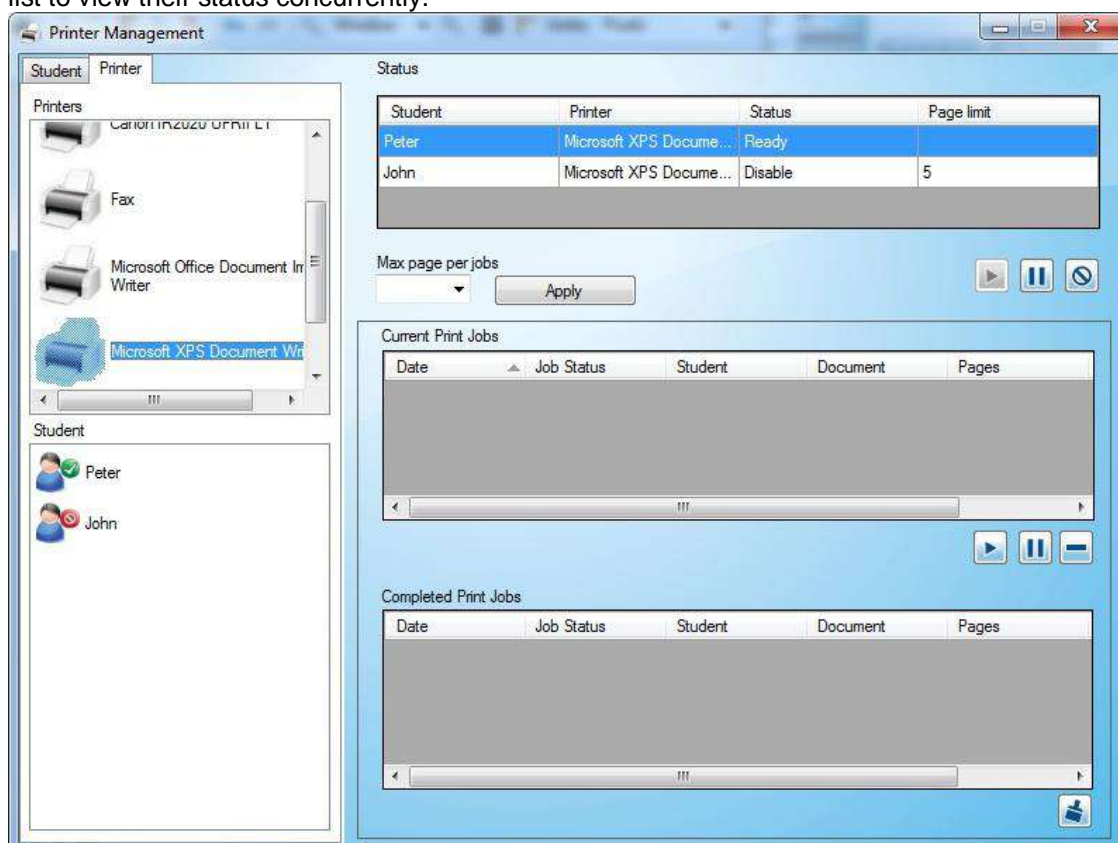
There are 4 status icons used to present the status of the printer.

 <p>All new print jobs will be printed directly</p>	 <p>All new print jobs will be paused</p>
 <p>All new print job will be deleted</p>	 <p>Printer is not available</p>

The printer monitor is only able to control the printers which are in normal status. If the printer is in other status, for example paused or disabled by Windows, the “not available” icon will be displayed and we will not be able to control this device via the Printer Management.

7.5.2 Printer View





In Printer View, the teacher can find the students who connect with the specific printer. Teacher can switch the view to Printer view by clicking the tab of “Printer”. Once a printer is selected in the printer list, the students will be listed in the student list. Teacher can select multiple students in the student list to view their status concurrently.



Once the teacher clicks the printer in the printer list, the connected students will be listed in the student list.

There are 4 icons used to present the printer status of the student.

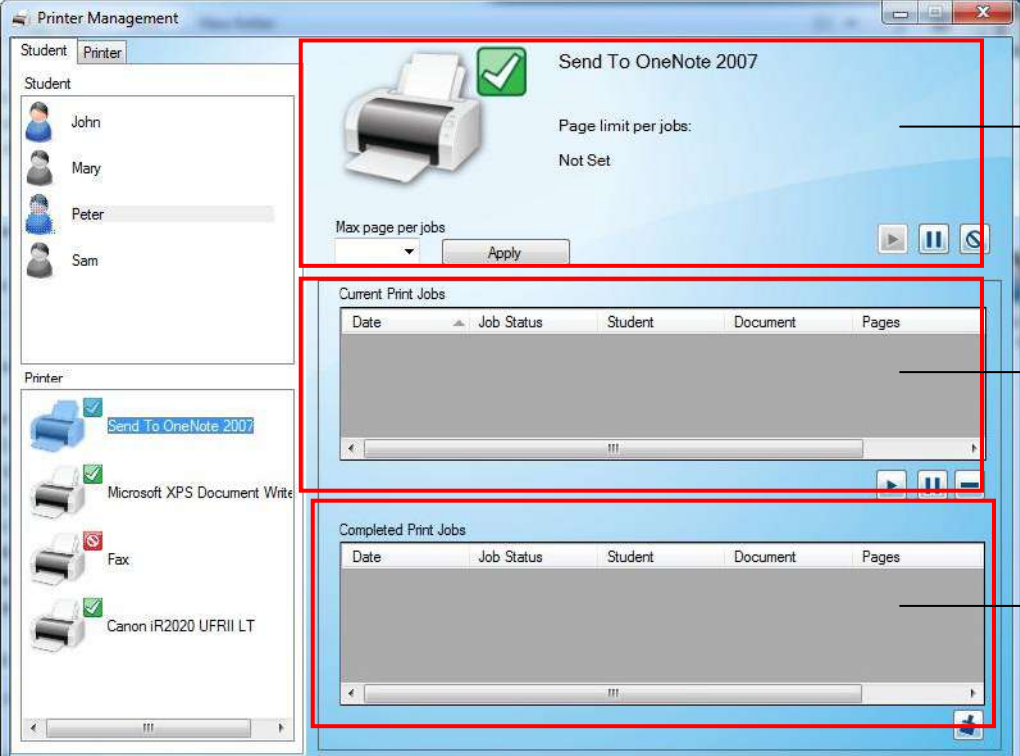
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 <p>All new print jobs will be printed directly</p>	 <p>All new print jobs will be paused</p>
 <p>All new print job will be deleted</p>	 <p>Printer is not available</p>

7.5.3 Printer Information

When the teacher selected the printers in the student view or selected the students in the printer view, the printer information will be displayed.

There are 3 types of printer information will be shown.

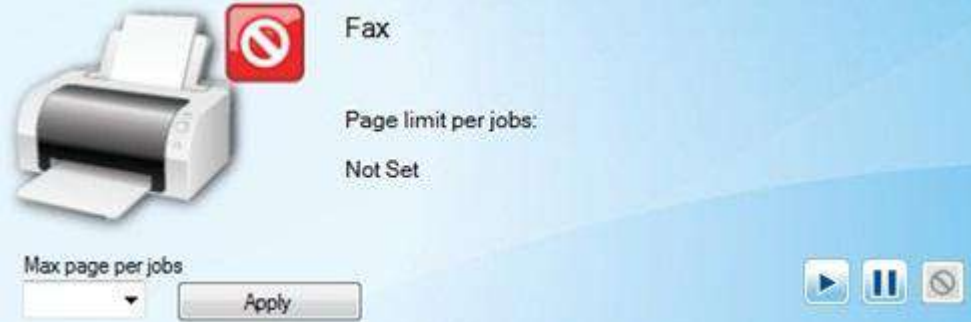


The screenshot shows the 'Printer Management' window. On the left, there are tabs for 'Student' and 'Printer'. Under 'Student', a list of students (John, Mary, Peter, Sam) is shown. Under 'Printer', a list of printers is shown: 'Send To OneNote 2007' (with a green checkmark), 'Microsoft XPS Document Writer', 'Fax' (with a red 'X'), and 'Canon iR2020 UFR II LT' (with a green checkmark). The main area is divided into three sections, each highlighted with a red box and a label:

- Printer status:** The top section shows the 'Send To OneNote 2007' printer with a green checkmark icon. It displays 'Page limit per jobs: Not Set' and a 'Max page per jobs' dropdown menu with an 'Apply' button.
- Current print jobs:** The middle section shows a table with columns: Date, Job Status, Student, Document, and Pages. The table is currently empty.
- Completed print jobs:** The bottom section shows a table with columns: Date, Job Status, Student, Document, and Pages. The table is currently empty.

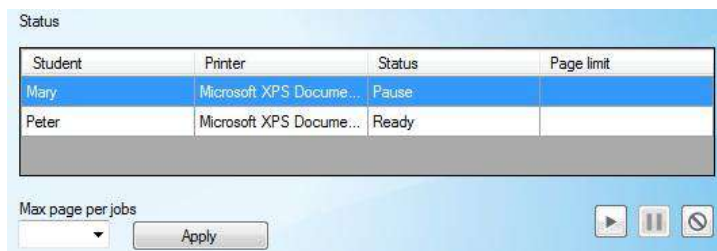
Printer Status

If the teacher selects one printer only, the single printer status view will be shown.




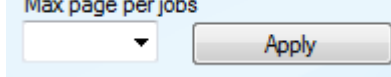


The screenshot shows the 'Fax' printer status view. It features a printer icon and a red 'X' icon. The text 'Fax' is displayed. Below it, 'Page limit per jobs: Not Set' is shown. At the bottom, there is a 'Max page per jobs' dropdown menu and an 'Apply' button. On the right side, there are three icons: a play button, a pause button, and a stop button.

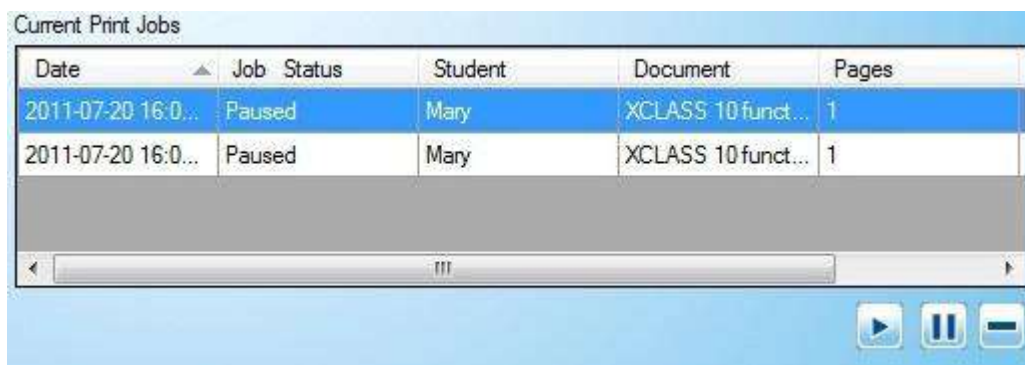
If the teacher selects several printers in Student View or select several students in Printer View, the multi printer view will be shown.



The teacher can control the printer by pressing the buttons. In multi printer view, the button action will only affect the printers which are selected in the table.

Button	Name	Usage
	Resume button	Print jobs are allowed and students can print their new jobs directly.
	Pause button	Teacher can set the printer to pause the new jobs.
	Disable button	Teacher can set the printer to delete the new jobs directly
	Apply page limit button	Teacher can set the page limit to restrict the printing pages per job. Once the pages exceed the limit, the job will be deleted automatically.



Current Print Jobs




The current print jobs table will display the current outstanding print jobs of the selected printers. The following job information will be shown in the job list:

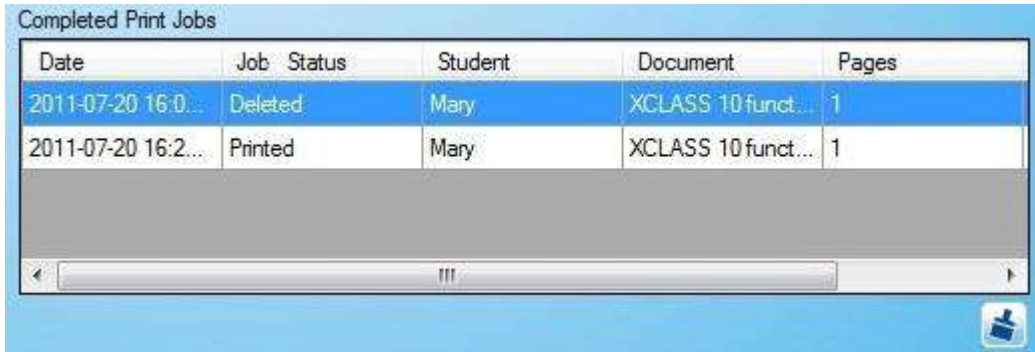
- Print date
- Job status
- Student who starts the printing
- Document name
- Pages of printing
- Copies of printing

Teacher can select multiple jobs in the table and press the buttons under the job list to manage them.

Button	Name	Usage
	Resume button	Teacher can resume the paused printer job to print out.
	Pause button	Teacher can pause the print job


Button	Name	Usage
	Remove button	Teacher can delete the print job

Completed Print Jobs



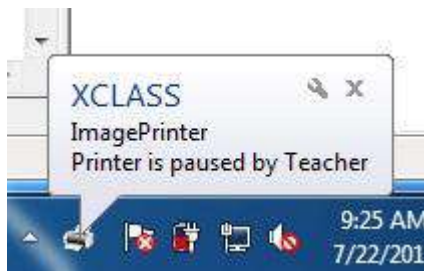
Date	Job	Status	Student	Document	Pages
2011-07-20 16:0...		Deleted	Mary	XCLASS 10 funct...	1
2011-07-20 16:2...		Printed	Mary	XCLASS 10 funct...	1

Once the teacher starts the Printer Management, the Print Management will collect the completed job log as reference and display in the Completed Print Job List. Teacher is able to review the print job

information of the completed job. The button  is provided to clear the log. Teacher can select multiple records and click the button to clear them.

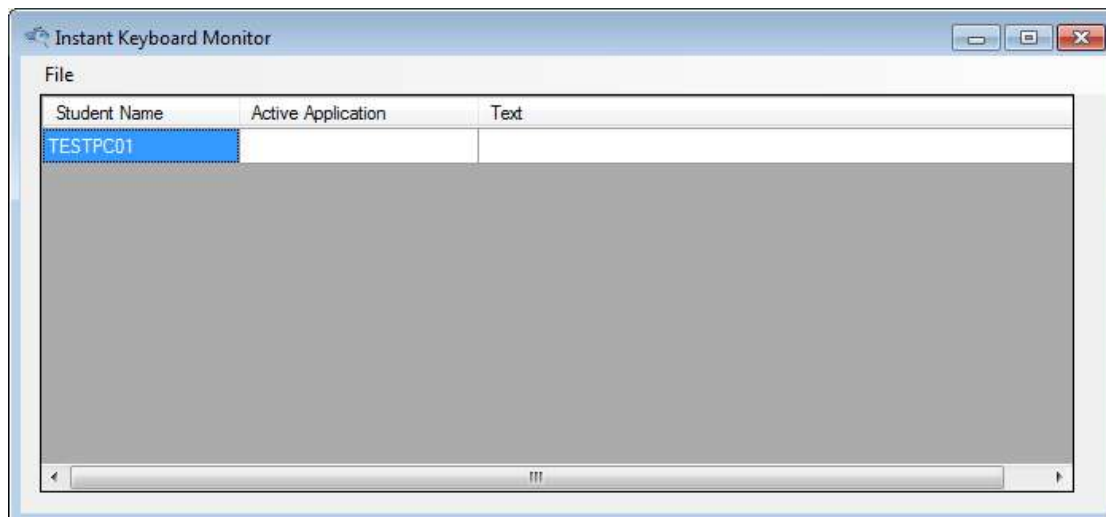
7.5.4 Notification of Printer Status

If the teacher changes the printer and print jobs status, update shall be notified on Windows toolbar of student PCs. Thus, student can learn latest status accordingly.



7.6 Instant Keyboard Monitor

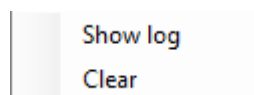
XCLASS provides keyboard monitor function to supervise every student's keyboard input. The application is running on student PC and the keyboard activities will be displayed and logged.



7.6.1 File

File menu allows teacher to browse the folder that contains all the log files during current keyboard monitor session.

7.6.2 Function Menu

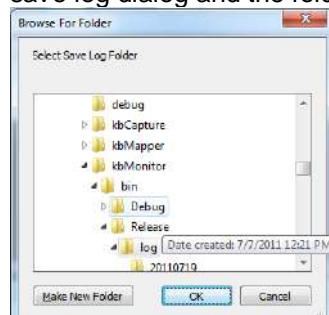


Right click at student's row, function menu will pop up. And user can select action on selected student.

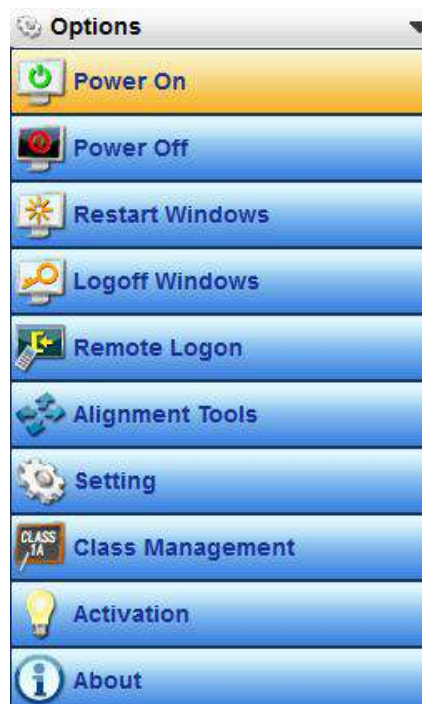
1. Show log Student's log will be displayed. Student's log includes the name of active application and the keyboard activities throughout that window active time. (This action can also be called by double clicking the student row)
2. Clear Clear the entry under <Text> of selected student.

7.6.3 Save Log

On exit the program, user can choose to save the log file at a user-defined location. Click "YES" in the save log dialog and the folder browser will pop up. Click "OK" after desired path is located.



8. Options

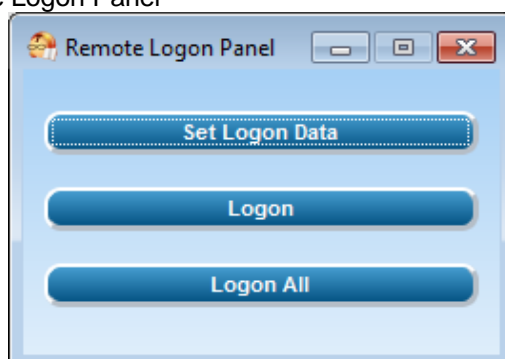


8.1 PC Power Management

Wake-on-LAN (WOL) is a function that helps to switch on (wake up), shut down (power off), log off and restart (reboot) a single, groups or all PCs in the local area network (LAN). Teacher can select the targeted student from the seating plan.

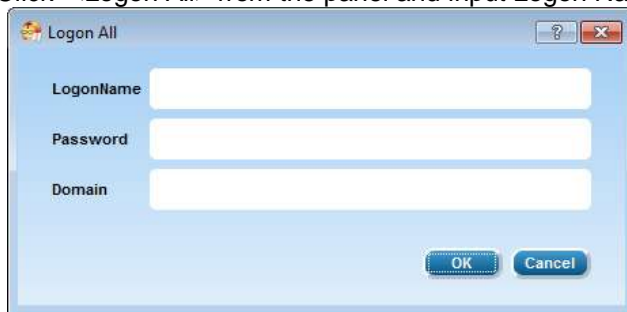
Click		Power On	to power on the selected PCs.
Click		Power Off	to shut down the selected PCs.
Click		Restart Windows	to restart the selected PCs.
Click		Logoff Windows	to logoff the selected PCs.
Click		Remote Logon	to start remote logon panel.

Remote Logon Panel



To remotely logon students' PCs with same logon name and password:

1. Click <Logon All> from the panel and input Logon Name and Password for all students.

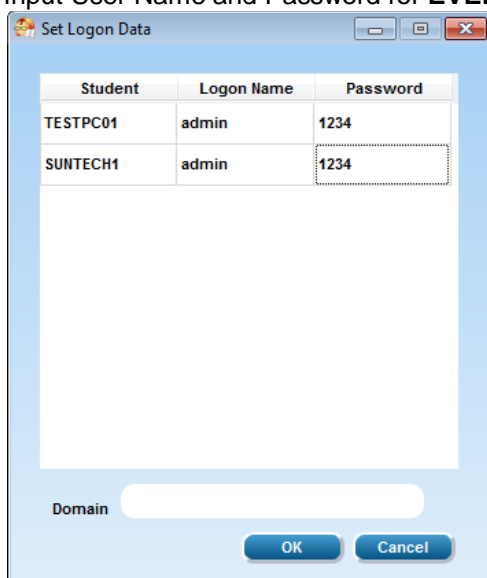


A dialog box titled "Logon All" with a question mark icon and a close button. It contains three text input fields labeled "LogonName", "Password", and "Domain". At the bottom right are "OK" and "Cancel" buttons.

2. Click OK to remotely logon students' PCs.

To remotely logon students' PCs with different logon name and password:

1. Click <Set Logon Data> from the panel
2. Input User Name and Password for **EVERY** individual student.



A dialog box titled "Set Logon Data" with a question mark icon and a close button. It contains a table with three columns: "Student", "Logon Name", and "Password". Below the table is a "Domain" text input field. At the bottom right are "OK" and "Cancel" buttons.

Student	Logon Name	Password
TESTPC01	admin	1234
SUNTECH1	admin	1234

3. Click OK to save all logon information.
4. Then click <Logon> from the panel to remotely logon students' PCs.

8.2 Alignment Tools

This tool is for teacher to change the layout of the seating plan. It is located at the following diagram. Simply use these buttons to align the icons in the seating plan.



A dialog box titled "Alignment Tools" with a close button. It contains several buttons: "Refresh", "Add Student", "Align top", "Align left", "Align right", "Align bottom", "Vertical Split", "Horizontal Split", and "Save".

Align left	Align the selected student icons to the left
Align right	Align the selected student icons to the right
Align top	Align the selected student icons on the top
Align bottom	Align the selected student icons at the bottom
Vertical Split	To evenly line-up the student icons vertically
Horizontal Split	To evenly line-up the student icons horizontally
Save	Save the seating plan layout

8.3 Setting

This tool is for teacher to change the general settings of the program.



Channel

Set the channel of teacher and connected student PCs. Available channels are from 1 to 8. Channel 0 means no channel is assigned. *(For more information of the channel setting, please refer to Appendix 1)*

Language

Set the displaying language of XCLASS program

Student Name

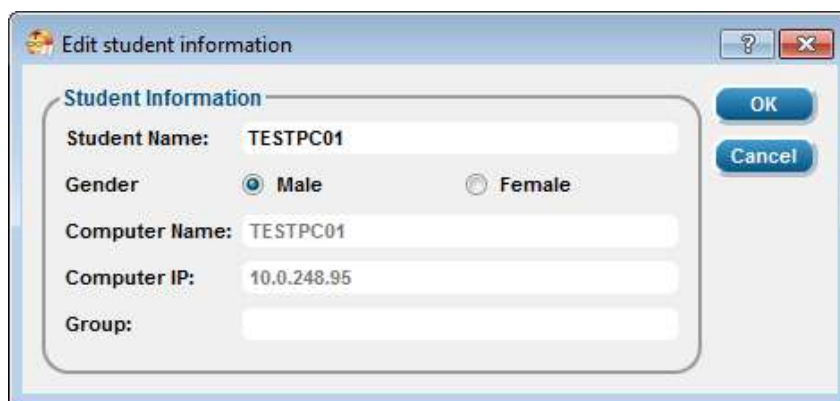
To change the display name of the student icon

Custom Name: Use the "Student Name" data from the Student Icon (default will use student PC name as the Student Name)

Login Name: Use the login name from the Student PC as the displayed name

To Edit the Student Name (for Custom Name Setting)

1. Double click the student icon to launch the Edit student information window



2. Edit the Student Name in the Student Name field
3. Click "Save" to update the record

P.S. The Computer Name is used as the default name of Student Name

Teacher Name

Change the displayed name of teacher

Show Gender

Enable or disable displaying student's gender next to their name

Enable Student record

Enable or disable student to record voice in group discussion. Please refer to "Voice Recording" in Section 5.2.4 for details.

Default Group User Count

Set the default number of students in a group for pairing discussion and random pairing

Monitor Icon Size

Set the size of student monitor screen

Monitor Quality

Set the picture quality of student monitor screen

Show Seconds

Set the refresh interval of student monitor window

Lock Seat Panel

Lock/Unlock seating panel (Alignment tools is not usable if seat panel is locked)

Hide Panel in Teacher Show

Hide or display the <Classroom Control Panel> on teacher's PC screen when teacher broadcasts teacher show

Teacher Show Screen

Choose which screen to be broadcasted to student during teacher show if teacher has dual monitors. "All Screen" broadcasts picture on all monitors to students while "Primary Screen" broadcasts picture on primary monitor to students.

Sound Setting

Sound Setting including side tone setting, microphone and speaker volume

Network

Select the network interface for teacher PC

Quiz

Quiz setting (please refer to Quiz manual for details)

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External

Enable or Disable external features

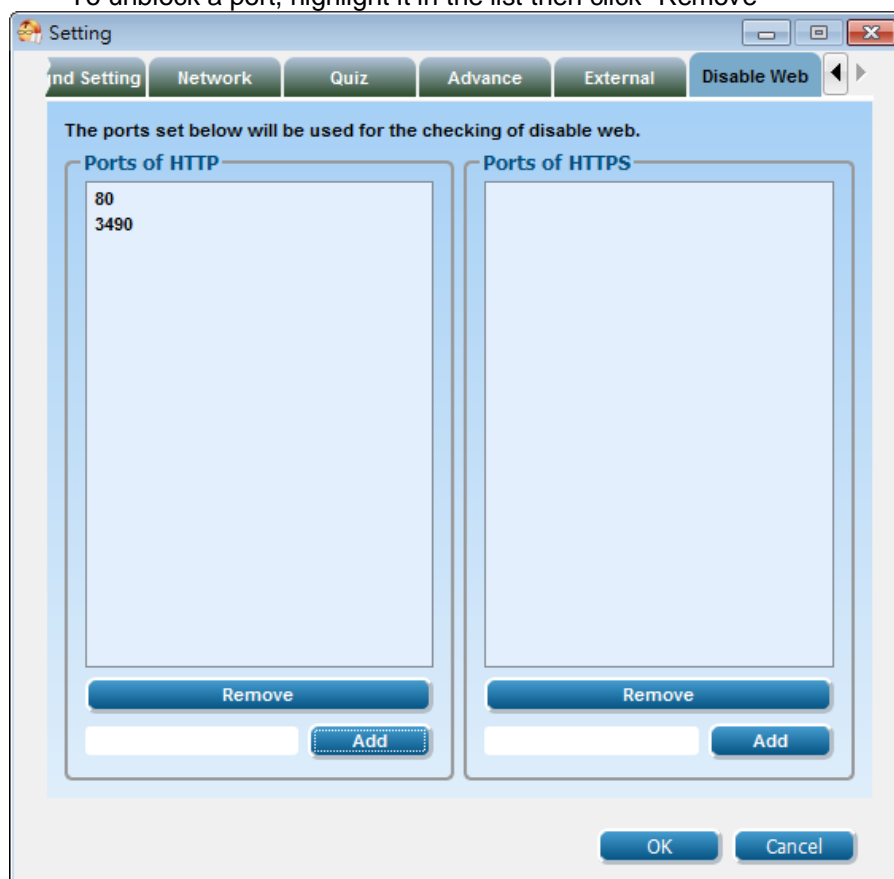
Advance

Advance Setting including Background setting, Disable Screen Save, Enable Remote Logon and Mp3 Path (mp3 storing path for Group Discussion function).

Disable web

Additional settings of Disable Web function in <Control> panel

- Input the ports of HTTP/HTTPS you want to block and click "Add" to add them in the list
- To unblock a port, highlight it in the list then click "Remove"

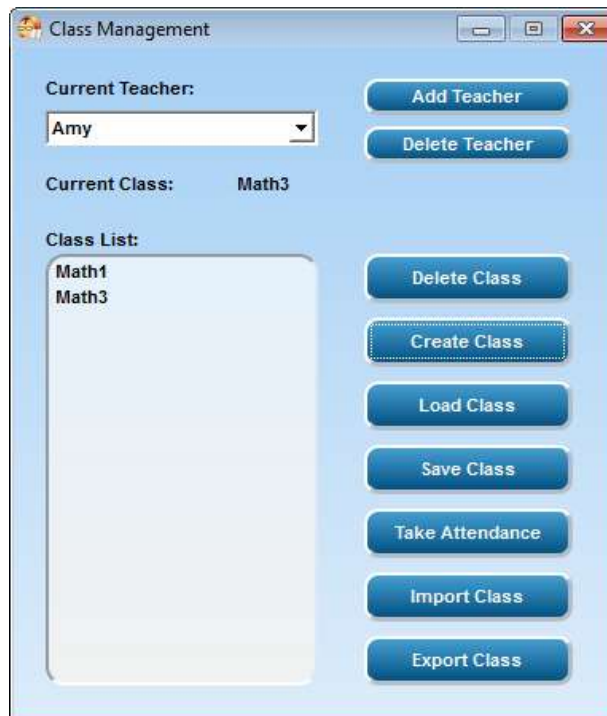


8.4 Activation

Please refer to the XCLASS EVO Installation and Configuration Guideline for more details.

8.5 Class Management

Class Management is a function that helps teacher to manage the class including create, load, save and delete class. Therefore, teacher can easily recall the class seating plan from the "Class List" before a lesson starts. Please note that "Take Attendance" box will automatically pop up at students PC for them to update their names once the button is clicked.



Add Teacher

Class Management allows different teachers to manage different classes. Therefore, the management will be more efficient

Delete Teacher

Click <Delete Teacher> to delete the record of certain teacher

Delete Class

Teacher can delete the class by selecting the Class in <Class List>, then click <Delete Class>

Create Class

A new class can be created under current teacher's name. Created class will be shown in the "Class List"

Load Class

Select the Class in Class List, and then click <Load Class>. Previously saved seating plan will be loaded

Save Class

1. After editing the seating plan, teacher can save it for further uses.
2. Select the Class in Class List, and then click <Save Class>.

Take Attendance

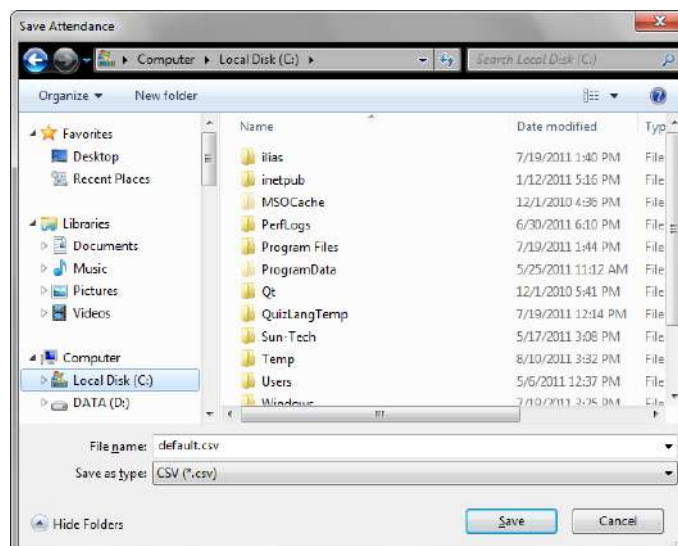
1. When a lesson starts, teacher can record and save the attendance of a class in an excel format.
2. An attendance taking notice will pop up on student screen.



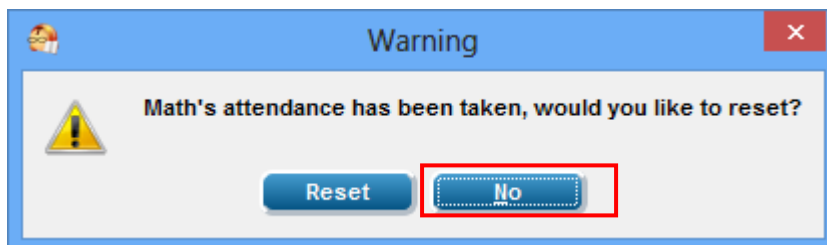
3. Clicking "Yes" will direct student to the attendance form to input name and gender. Click OK to submit information.

An "Attendance Form" dialog box with a blue header bar. It contains a text input field labeled "Student Name". Below it, there are two radio buttons for "Gender": "Male" and "Female". At the bottom right, there is a blue button labeled "OK".

4. After 30 seconds of taking attendance, a save window will pop up automatically for teacher to saving attendance record to a CSV format file. Simply enter the file name and press <Save> button to save



5. To take the attendance of late student, click "Take Attendance" again. In the pop up window, choose **NOT** to reset the record.



6. Only student who hasn't take attendance yet will see the "take attendance" notice. Click "Yes" to fill in the form.
7. Teacher can save the attendance later in a .csv file. For late student(s), the entry of "Attendance" will show as "Late".

A	B	C	
Class:	Math		
Date:	Mon Aug 27 11:55:10 2012		
Student Name	Gender	Attendance	
Ben	Male	Yes	
Kate	Female	Late	
Anna	Female	Yes	


Export Class

- Select a class from the class list and click “Export Class”.
- The class information, including class name, teacher name, student PC name, student’s display name, student’s gender, will be exported to a .csv file.

Import Class

- Click “Import Class”
- Choose the .csv file which contains teacher and student’s information
(The class information should be presented in the same form as in the file generated by “Export Class” function)
- The class name will appear in the class list under the teacher’s name.

8.6 Exit System

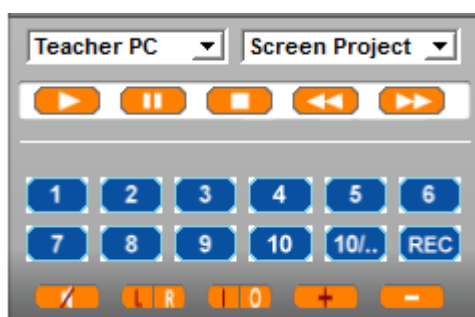
Simply click on the  button on the top right-hand corner of the program interface to exit the XCLASS system.

9. External Video Broadcasting

To perform multimedia broadcast and AV devices control like delivering content of DVD or other media to all of students in class simultaneously. An easy-to-use & all-in-one AV control panel is essential for each multimedia classroom.

9.1 AV Control Panel (All-in-One Remote-Control Panel)(Default disabled)

Teachers may still feel dazzling to master a suite of AV equipments no matter they are doing it manually or with the aid of 'numerous' remote control panels. The XCLASS AV Control Panel is specially designed for ease of control. To call for its service, go to XCLASS AV control panel.



Tick  on External TAB of <Setting> to display AV control Panel

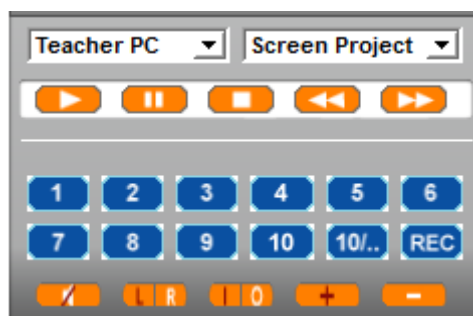
Note: The AV control Panel will not be displayed if no COM1 is found on the system

How to use AV control

1. Choose <Input> source, either
<DVD> / <VHS> / <Cassette> / <Visualizer> / <Teacher PC> / <Notebook PC>
2. Choose the image project to the projector screen, either < Screen Project > or < Video Project >.
 - The option < Screen Project > projects the **teacher PC screen** to the projector screen.
 - The option < Video Project > projects the **selected AV signals** to the projector screen.

Remark: Input/Output Channel menu items can be updated in "AVControl.ini" file.

Operate the AV equipments by switching to the AV control panel (as shown below) :



For <Power On/Off> the input AV equipment

To mute the sound comes out from speaker

To turn up the noise level of the amplifier (speakers)

To turn down the noise level of the amplifier (speakers)

To select stereo or mono signal

To Broadcast AV Media to Projector

1. Choose AV device from the <Input Devices> console for broadcasting.
2. Select <**Video Project**> icon from the <Output Devices> console.
3. Click <Play> button to play the media.

Note: By default, once teacher chooses to broadcast via a projector, audio signals come out simultaneously through the classroom speakers in real time.

To Broadcast AV media to student PC by capturing tools

When teacher wants to broadcast media like DVD and videocassette, teacher should play the multimedia by the AV equipments in the AV cabinet.

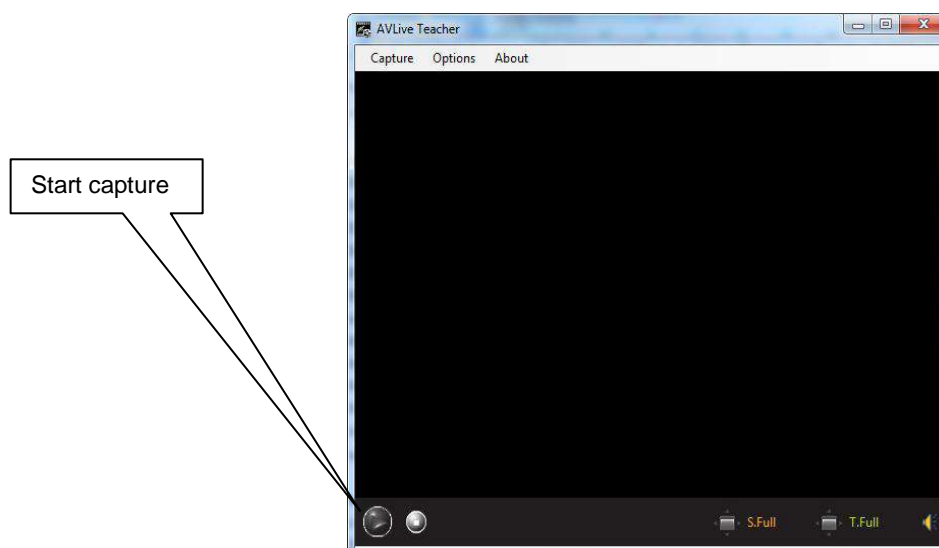
Get full control of all AV equipments in the AV cabinet by <AV Control Panel> and broadcast what teacher plays to the student PCs. In this context, teacher needs to operate <AV Control Panel> and <AV Live Player> simultaneously.

9.2 AV Live

Operate <AV control> and <AVLive player> to broadcast

To choose the right input/output devices at the AV control, switch to <AV Live> to broadcast selected AV signals to student PCs.

1. Choose the input device, either a DVD, VCR or Visualizer by selecting the menu as named. Operate the AV equipments by using the <AV Control Panel>.
2. Pop up the <AV live Player> by clicking <**AV Live**> in the XCLASS <Application>panel.



3. Make sure you have selected the right video and audio source in "Settings" (Please refer to section 6.2 for details)
4. Click "Start" to divert the AV signals to the media player, the student PC will automatically receive AV signals once teacher clicks "Start" button.

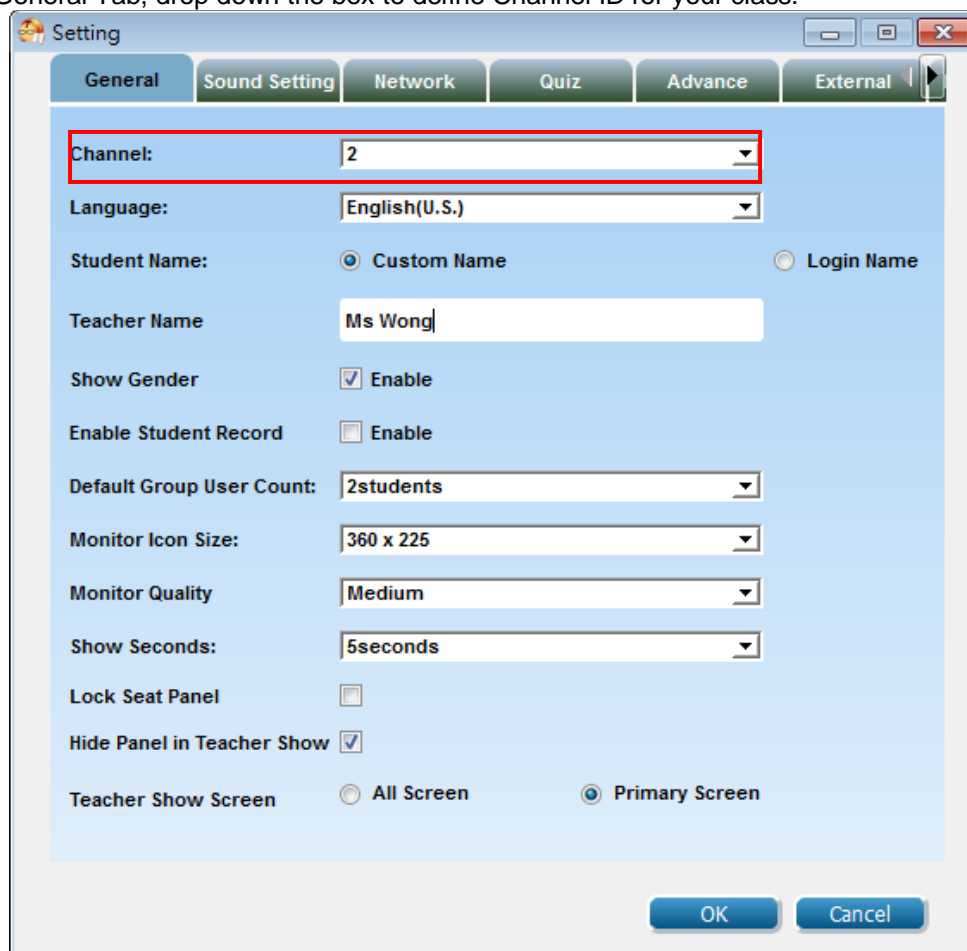
Note: Student PCs will receive AV signals only when the <AV Live> function is activated. Teacher can select the signal projects to the projector screen, either select Screen Project or Video Project.

Appendix 1: Channel Setting

Define Your Class (Network) Channel ID

The class channel ID is used for avoiding network interference when more than one teachers are using in the same network mask (make sure that each classroom is using different channel ID for their classes).

1. Click **Setting** in <Option> menu.
2. In General Tab, drop down the box to define Channel ID for your class.



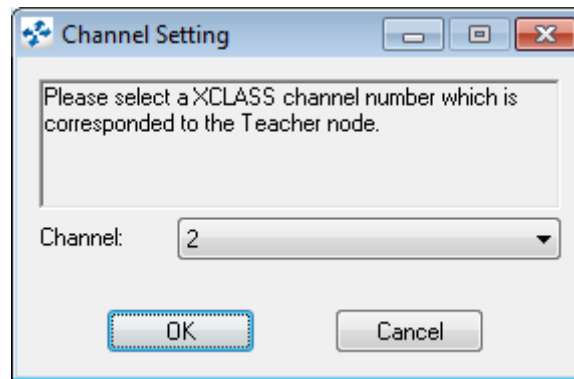
3. Click **OK** to confirm the setting.

Note:

- When finishing modifying the channel, all the students connected with XCLASS will change to the assigned Channel ID accordingly.
- It is recommended to restart all the PCs (both Teacher and Students) after changing the channel.

Change the Class Channel ID for Student Manually

To change the Class Channel ID for student manually, please access to the folder of the XCLASS Student in C:\program files\Sun-Tech\XCLASS EVO\Student and launch a program called **ChangeChl.exe**.



To change the channel, please select a channel ID from the drop down list and click “OK” to confirm. It is necessary to restart the Student PC to activate the changes.



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