105 Schaub Hall

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For any questions or problems regarding this classroom, please contact CAAT_Help@ncsu.edu or 515-6777. We will have a consultant review the concern as soon as possible.

Equipment Overview

- Document Camera
- Ceiling Mounted LCD Projector
- PC and Monitor
- VCR
- Laptop inputs
- USB Flash Drive Extension cable
- PC and VCR Audio through ceiling mounted speakers
Computer Access

1. Enter your Unity ID into the box labeled “Username”.
2. Enter your password into the box labeled “Password”.
3. Press “OK” or Enter.
4. Enter your password.
5. Once the login process is complete, you will be able to navigate to any application to which you have rights.

Guest Computer Access

Should you experience trouble logging in via the Novell Network, please try our guest log in. This will enable you to use PowerPoint and other MS Office applications. We also encourage instructors to bring their PowerPoint presentations (or other material) on CD or USB Flash Drive.

(Must be followed in this order)
1. In the Novell Application Launcher window, check the box "Workstation Only"
2. Enter "guest" into the username field
3. Leave password field blank
4. Click the "OK" button
5. Insert CD or USB Flash Drive
6. Double click the PC icon located in the upper left of the screen
7. Locate and double click on the appropriate drive
8. Select your file and double click to open
Projection Instructions

Projection from the Computer:

- The monitor and PC should already be on.
- On the left side of the lectern is a switch box; press the button labeled “PC”.
- If the computer image is not projected, press the “Input” button on the remote until you see the desired image.

Projection from the VCR:

- Press the “Power” button on the VCR.
- Insert the videotape.
- If the VCR image is not projected, press the “Input” button on the projector remote until you see the desired image.
- When you are finished viewing the video, press the stop button on the VCR. Eject your tape and turn the power off to the VCR.

Projection from a Laptop:

- From the top of the lectern, locate the VGA cable labeled “Laptop”
- Press the button on the switch box to the position labeled “Laptop.”
- If the laptop image is not projected, press the “Input” button on the projector remote until you see the desired image.

Projection from the Document Camera:

- Press the “Power” button on the Document Camera.
- Turn on the VCR and set the channel to L-1 or F-1.
- If the image is not projected, press the “Input” button on the projector remote until you see the desired image.
Keyspan Presentation Remote

This remote will advance and reverse Power Point slides, control the PC mouse, and has a laser pointer.

The black thumb switch located on the side of the unit controls Power Point slides.

To activate the laser:

- Hold down the white button and the small blue button until the white button flashes red.

End of Class

- Aim the remote at the projector and press the “On-Off” button. When the “Power Off” message appears on the screen, press the “On-Off” button again.
- Log out of the computer. Double-click the red icon of the desktop labeled “Logoff”.
- Do not turn the power off to the Monitor or the PC.
- Power off the VCR.
- Turn off the Document Camera.
Samsung SDP900DX Document Camera

Projection from the Document Camera:

- Turn on the Document Camera. The switch is located on the left side of the control pane.
- Press the “Main Lock” button on the Document Camera’s base to raise the camera into position.
- Raise the two lamp units into position and centered on the document plate. Adjust the angle of the lamps as needed.
- Turn the camera lens to face downward and remove the lens cap if necessary.
- Select a proper lighting source with the LAMP button of the presenter or remote. Each time you press the button, upper lights on, lightbox on, then all lighting off.

Main control panel

POWER
Use this to turn the power on or off.
FREEZE
Use this to freeze the image.
AWC
Use this to control the color automatically.
ZOOM
Use this to control the size of an object projected on the screen.
FOCUS
Use this to adjust the focus.
APERTURE
Use this to control the sharpness of the output image.
AF
Use this adjust the focus automatically.
**MODE**
Use this to select the desired resolution for the video output device (PC monitor, projector) connected to this product.

**INT / EXT**
Use this to select internal or external image
INT: to view the image on this product.
EXT: to view the VGA output from another device such as a PC monitor or a projector by connecting it to this product.

**LAMP**
Use this to turn the upper lamp or light box on or off.

**IRIS**
Use this to control the brightness of the image by using the iris.
Adjusting image size

- Press **WIDE** or **TELE** button on the remote controller to reduce or enlarge the image size displayed on the screen.
- You can also use **ZOOM** or **ZOOM** button of the presenter to achieve the same result.
Adjusting image brightness

- Press IRIS button on the control panel or IRIS + button on the remote controller to lighten the overall image.
- Press IRIS button on the control panel or IRIS - button on the remote controller panel to darken the overall image.
Adjusting image color

- For automatic color adjustment, press AWC button.
- If you want fine level adjustment, press BLUE + / - or RED + / - button on the remote controller button to increase or decrease blue or red color factor manually.
- Hint: To obtain the best result, put the camera lens facing the white paper and press AWC button.

Positive and Negative switching

Press NEGA/POSI button. Each time you press the button, POSI or NEGA appears alternately on the screen. Set to POSI to see normal object and set to NEGA to see negative film.
Image sharpness control

- Press APERTURE button to control the sharpness of the output image of this product.
  - APERTURE ON: For a material mostly with words.
  - APERTURE OFF: For a material with many pictures or colors.

Image rotate control

- For image rotation, press ROTATE button.
  To rotate the image by 90°, 180°, 270°, 0°, press ROTATE button.
  The rotate image status will be displayed.
Saving image to memory

- You can save the image up to 8 frames into your digital presenter's memory. After saving, you will be able to recall it.

  To save the image into the memory, press SAVE button and specify the memory location within 4 seconds using the number keys from 1 through 8.
  
  If you want to recall the saved image from memory, press RECALL button and press the memory location number within 4 seconds. If you press and hold down RECALL button, all images saved in memory are displayed one by one.
  
  If you want to exit from the recall mode, press EXIT button.

  The memory location numbers are printed on the right side of these buttons. For example, if you want to save the image into memory location 7, press SAVE then press AFT button printed 7 at right side.

**Note** if you turn the power off, all the saved images will be lost.

Screen 2 divide and image shift

- You can see both the image of an object currently projected and the image saved in memory simultaneously on one screen.

  Press DIVIDE button and press the memory location number within 4 seconds to recall the image you want to see.

  To cancel this mode and return to normal mode, press EXIT button.

  You can see the image of an object currently projected at right side.

  The recalled image from memory appears at left side. Press SHIFT button to shift the image from right to left. Each time you press the button, a third of the image will be moved from right to left.
3x3 multi-Screen

- You can see all the images saved in memory simultaneously on one screen and choose one to display it.

1. Press DIVIDE button for 2 seconds or more, then all the images saved in memory are displayed on the screen.
2. To cancel this mode and return to normal mode, press EXIT button.

When you want to see one of them, press the number button to recall it. For example, if you want to see the image in memory location 3, press BLUE + button and the image is displayed on the screen.
Adjusting the image with the mouse interface

Image Features

Image menu deals with various adjustment function of on-screen image.

■ Focus
Allow to focus an object in the far / near distance, or automatically.
Holding down [Far]/[Near] menu with the left mouse button, focus is activated.
Click [Auto] menu to auto focus function.
- **Zoom**
  Allow to enlarge or reduce the image size.
  Holding down [Tele]/[Wide] menu with the left mouse button, zoom is activated.

- **Bright**
  Allow to open IRIS to increase the brightness or close IRIS to decrease the brightness.
  Holding down [Up]/[Down] menu with the left mouse button, lens iris is activated.
Red / Blue
Allow to adjust image color through the red/blue gain control
Holding down [Up]/[Down] menu with the left mouse button, red/blue gain control is activated.

AWC
Allow to adjust image color automatically through automatic white balance control
Click [AWC] menu with the left mouse button, AWC function is executed once.
Digital menu deals with various digital image processing function.

- **Freeze**
  Allow to keep the current image on the screen. Click [Freeze] menu with the left mouse button, freeze mode is activated and [Freeze] menu turns checked state. To release freeze mode, click [Freeze] menu again or click [Cancel] menu with the left mouse button (and then [Freeze] menu turns unchecked state).

- **Rotate**
  Allow to rotate the image by 0° (Off), 90°, 180°, 270°. Click [0°/90°/180°/270°] menu with the left mouse button, image is rotated by user's request and menu turns checked state following current status of image.
- **Divide**
  Allow to divide the screen to show both of the current image and the image recalled from the memory simultaneously on one screen.
  Click [numbers] menu with the left mouse button, screen is divided and selected number of image is recalled from memory and activated in menu.

- **Shift**
  Allow to shift the recalled image shown in the divided screen from the left to right to show the hidden portion of the image. Click [Shift] menu with the left mouse button, image is shift from left to right step by step each request in the divide mode.
■ 3x3 Multi
Allow to see all the images in the memory (up to 8 frames) on one screen.
Click [3x3 Multi] menu with the left mouse button, 9 divide mode is activated and
GUI menu disappeared. If you click the image number on screen, select image will be expanded to full screen
and GUI menu is appeared on the screen.
To Release 3x3 Multi mode, click the center image (samsung logo image).

■ Cancel
Allow to stop current image processing function and return to normal mode.
Click [Cancel] menu with the left mouse button, all digital function is released.
SDP-900DX support to GUI Drawing system to draw straight lines, freehand lines, rectangular on the screen with mouse operation.

To use GUI Drawing system, first of all, GUI menu system and [Freeze] or [Recall] function must be activated. Then Draw menu is now being activated. (See page 28)

When [Draw] menu is clicked, GUI Draw toolbar is appeared on the screen and GUI main menu disappeared.

Using GUI Drawing system, GUI menu system and [Freeze] or [Recall] function must be activated first. If you want to exit from the GUI Drawing mode, click the [Exit] Menu button, or press EXIT button in remote controller, or press FREEZE button on the panel key / FREEZE button in remote controller when Drawing mode was activated from FREEZE function.
1 Exit Button

Use the Exit button (x) to exit GUI Drawing system to normal mode, or clear all the user’s images on the full screen.

2 Tool Selection

Use the Line Width Selection to set the line width to between 1 and 4 pixels.

- Drawing the single line
  To draw a Single line, Click the single line icon and then,
  1) Position the cursor on the screen where you want the line to start.
  2) Press and hold the left/right mouse button.
  3) Drag the cursor.
  4) To end the line, release the mouse button. SDP-900DX creates the line.

- Drawing the rectangular
  To create a rectangular, Click the rectangular icon and then,
  1) Place the cursor at a corner of the area you want to select.
  2) Click and drag the mouse until the selection is the size you want.
  3) Release the mouse button.

- Drawing the freehand line
  To create a freehand line, Click the freehand line icon and then,
  1) Position the cursor on the image where you want the line to begin.
  2) Press and hold the left/right mouse button.
  3) Drag the cursor on the path you want the line to take.
  4) Release the mouse button.

- Eraser Tool
  1) Click the Eraser tool icon and then the cursor changes to the erasing rectangular.
  2) Move the cursor over the line and click to delete the line.
Foreground / Background Color Panel

There are two active colors in GUI Drawing System, the foreground (left mouse click) and background (right mouse click) colors. You can change the brush colors by selecting new foreground and background solid colors using the Color Palette.

Foreground / Background Color Palette

Use the Color Palette to select the colors that you want to draw the line. Move the cursor over the available colors panel. Left-click to select a foreground color. Right-click to select a background color. The two boxes above the Color Panel display the respective colors. There are six colors to be selected, red, yellow, green, cyan, blue and magenta.

Line Width Selection

Use the Line Width Selection to set the line width to between 1 and 4 pixels.