USER GUIDE FOR USING AV EQUIPMENT AT CLASSROOM
(B2531 & B2625)
# INTRODUCTION OF AV TOUCH SCREEN CONTROL PANEL

<table>
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<tr>
<th></th>
<th>Description</th>
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<tr>
<td>1. PC</td>
<td>Use for the Desktop computer install in the lecture Desk.</td>
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<td>2. Notebook</td>
<td>Use for a Notebook Computer. (User must connect the VGA cable provided at the lecture Desk to Notebook Computer first.)</td>
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<td>3. Blu-Ray</td>
<td>Use for the Blu-Ray / DVD Disc Player install in the AV Cabinet</td>
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<td>4. HDMI In</td>
<td>To connect user’s portable HDMI equipment input.</td>
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<td>5. Visualizer</td>
<td>Use for the Visualizer (document camera) on the lecture Desk.</td>
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<td>6. AUX In</td>
<td>To connect user’s portable AV equipment input.</td>
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<td>7. Sound Volume</td>
<td>Increase or decrease the sound level except the <strong>Microphone volume</strong>.</td>
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<td>8. Projection Control</td>
<td>Control the projector and screen up/down directly.</td>
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<td>9. System OFF</td>
<td>Shutdown the system.</td>
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OPERATION PROCEDURE OF DESKTOP COMPUTER

1. “Power On” the desktop computer first.

2. Press the “PC” button at touch screen.
1. Connect the Notebook with VGA, and audio cable from the cable cubby first.

2. Press the “Notebook” button at touch screen.
OPERATION PROCEDURE OF VISUALIZER

1. Adjust the camera head and lamp head to a suitable position as shown.

2. Press the “Visualizer” button at touch screen.
1. Press the “Blu-ray” button at touch screen.

3. Press the “Blu-ray Player Control” button of touch screen.
OPERATION PROCEDURE OF EXTERNAL DEVICE

1. Connect the external device with video and audio cable from the cable cubby first.

2. Press the “AUX In” button at touch screen panel.
OPERATION PROCEDURE OF EXTERNAL DEVICE (HDMI)

1. Connect the external device with HDMI cable from the cable cubby first.

2. Press the “HDMI In” button at touch screen panel.
OPERATION PROCEDURE OF PROJECTOR CONTROL

1. Press the “Projector Control” button at touch screen panel.

2. Select to control the Power On/Off, picture mute On/Off and projector screen up and down.
OPERATION PROCEDURE OF SHUT DOWN THE SYSTEM

1. Press the “System OFF” Button at touch screen.

2. Select the “YES” Button at touch screen.

3. Wait for 180 seconds for shutdown the system.
INTRODUCE OF VISUALIZER

Functions

Front Operating Panel

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<tr>
<th>Name</th>
<th>Function</th>
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<tr>
<td>1 OSD</td>
<td>ENTER (Fix) To fix the OSD item, select an image from the images in the SD card displayed on the split screen</td>
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<tr>
<td>2 Operation</td>
<td>▲ ▼ ◄ ► (Direction) To select the OSD item, move the selection frame (cursor) of the recorded image, scroll the digitally zoomed-in image</td>
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<tr>
<td>3</td>
<td>◄ (Menu Delete) To cancel the OSD from the screen when the top OSD item is resumed</td>
</tr>
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<td>4</td>
<td>☀ (Lamp) To turn ON/OFF the lighting</td>
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<tr>
<td>5</td>
<td>WB (White Balance) To select Auto Track/Auto Adjust and Fix</td>
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<td>6</td>
<td>OPT. (Optional Setting) To set the desired function by using the OSD</td>
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<td>7</td>
<td>IRIS OPEN (Open) To brighten the camera image</td>
</tr>
<tr>
<td>8</td>
<td>(Iris) CLOSE (Close) To darken the camera image</td>
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<td>9</td>
<td>ZOOM OPEN (Open) To operate the zoom function by turning the dial</td>
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<tr>
<td>10</td>
<td>AF (Auto Focus) To focus the camera automatically</td>
</tr>
<tr>
<td>11</td>
<td>(Image Save) To save the image to an SD card</td>
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<tr>
<td>12</td>
<td>Image Select To switch the output image by pressing this button in order of Camera image (ألبوم) → RGB image (اللون) → SD mode (</td>
</tr>
<tr>
<td>13</td>
<td>MENU (Menu) To display/cancel the OSD</td>
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</tbody>
</table>

* Hereinafter the menu items to be displayed/selected on the monitor or projection screen are referred to as "OSD [On-Screen Display]."
INTRODUCE OF VISUALIZER

VARIOUS FUNCTIONS AND OPERATIONS

Lighting

When the [ ] button on the front operating panel or wireless remote control is pressed, the fluorescent lamp lights up in 1 - 3 seconds. Each time the [ ] button is pressed, the fluorescent lamp turns ON/OFF alternately.

When the lighting lamp is used when the stage is not sufficiently bright or a 3D object is shot, a sharp image with high color rendering properties can be obtained.

- Adjusting the lamp position
  While watching the screen, adjust the angles of the lamp column and the lamp head until the illumination is provided uniformly over the stage. Bring the lamp column closer to the camera head as much as possible but only to such an extent that the lamp head is not shot on the screen, and then face the light emitting part of the lamp head right downward, and the illumination will flood over the stage evenly.

Depending on the lamp position, the camera column shadow may appear on the screen.
INTRODUCE OF VISUALIZER

When the zoom dial \[ \text{[ ]} \] on the front operating panel is turned or the zoom button \[ \text{[ ]} \] on the wireless remote control is pressed, the document display range can be adjusted.

According to the zoom dial turning angle, the zooming speed varies in 3 steps (3-step speed change).

- **Zoom magnification in the Camera mode**
  When the optical zoom is maximized (about 16x), the digital zoom is activated and the image can be zoomed in further up to 8x (about 128x combined with the optical zoom).

- **Zoom magnification in the SD Card mode**
  The digital zoom is available up to 8x.

  - Within the digital zoom range, the image quality is degraded.
  - Within the digital zoom range, the zoom speed is locked.
  - When the digital zoom is in operation, the screen can be scrolled with the direction buttons \[ \text{[ ]} \] on the front operating panel or wireless remote control.
  - When the image is in transmission through the USB cable, the digital zoom speed is slow.
  - When [Guide] is set to [ON] on the OSD, whether the zoom is optical or digital can be distinguished on the screen.
INTRODUCE OF VISUALIZER

White Balance

Front operating panel

[Auto/One-Push] (Auto Track/Auto Adjust and Fix)
The Auto (auto track) mode for adjusting the white coloring automatically according to the document or lighting condition and the One-Push (auto adjust and fix) mode for maintaining the automatically adjusted state can be switched alternately.
If the image color balance is lost due to the document or lighting condition, shoot a sheet of white paper and then press the [WB] button on the front operating panel. Then, the white coloring is adjusted automatically according to the document or lighting condition, and then an automatically adjusted state is maintained.
When the [WB] button on the front operating panel is pressed, the Auto (auto track) mode is resumed.

[Manual] (Manual Adjust)
When [White Balance] is set to [Manual] on the OSD, the white balance is locked, and then, [R-Gain] (red element) and [B-Gain] (blue element) on the OSD can be adjusted.
When [White Balance] is set to [Auto/One-Push] on the OSD, manual adjustment is released, the white balance is adjusted once automatically, and then the W/B level is locked.

The color temperature range that can be tracked automatically is approx. 3000K – 8000K.

When [Guide] is set to [ON] on the OSD, the setting contents are displayed on the screen.
INTRODUCE OF VISUALIZER

Focus

Front operating panel

Wireless remote control

The focus on the object is adjusted.

- Auto Focus
  When the [AF] button on the front operating panel or wireless remote control is pressed, the camera is focused automatically. This product is of one-shot auto focus type. That is, once the camera is focused, the auto focus operation is released, and then focus position is maintained.

- The objects listed below may not be brought into focus in the auto focus. In such cases, use the manual focus mode.
  - Objects having little contrast
  - Objects with fine separated patterns, such as lateral stripes and cross stripes
  - Objects glittering or reflecting strong light
  - Objects with bright background or excessive contrast
  - Objects that are entirely dark
  - Objects located near and far away from the same time
  - Objects in motion

- If the manual focus button [FOCUS • NEAR] or [FOCUS • FAR] on the wireless remote control is pressed when the auto focus is in operation, the auto focus operation will be cancelled.

- Limit of focus adjustment:
  - With closeup lens
    - TELE (Telescopically): 305 - 405 mm (12.0 - 15.9 in) from close-up lens
    - WIDE (Wide-angle): 50 - 405 mm (2.0 - 15.9 in) from close-up lens
  - Without closeup lens
    - TELE (Telescopically): 500 mm - ∞ (19.7 in - ∞) from zoom lens
    - WIDE (Wide-angle): 50 mm - ∞ (2.0 in - ∞) from zoom lens
INTRODUCE OF VISUALIZER

■ Manual Focus
When the focus button [FOCUS · NEAR] or [FOCUS · FAR] on the wireless remote control is pressed, the height on which the camera is focused changes.
This function is used for focusing the camera on any portion of a 3D object or the like.

Limit of focus adjustment:
• With close-up lens
  TIEE (Telescopic) : 305 – 405 mm (12.0 – 15.9 in) from close-up lens
  WIDE (Wide-angle) : 50 – 405 mm (2.0 – 15.9 in) from close-up lens
• Without close-up lens
  TIEE (Telescopic) : 500mm – ∞ (19.7 in – ∞) from zoom lens
  WIDE (Wide-angle) : 50mm – ∞ (2.0 in – ∞) from zoom lens
INTRODUCE OF VISUALIZER

When the [IRIS - OPEN] button or [IRIS - CLOSE] button on the front operating panel or wireless remote control is pressed, the lens iris is adjusted for image brightness. This adjustment can be made in either of the following 2 modes, which are set in [Iris] on the OSD:

- **Auto Brightness Adjustment**
  ([Iris] is set to [Auto] on the OSD.)
  It is so set that the brightness to be tracked automatically can be adjusted.
  - When the [OPEN] button and [CLOSE] button on the front operating panel are pressed together or [NORMAL] is selected in [IRIS] on the wireless remote control, the current settings are reset to the default settings.

- **Manual Brightness Adjustment**
  ([Iris] is set to [Manual] on the OSD.)
  It is set so that the brightness can be locked to any level.

  - The default setting is [Auto] (Auto Brightness Adjustment).
  - In the Manual Brightness Adjustment, the brightness is locked and the change in the object brightness is not tracked.
  - When [Guide] is set to [ON] on the OSD, the setting contents are displayed on the screen.