General Information

Computer Studio

The Computer Studio is equipped with 18 Sun Ultra 10 workstations each with a compatible IBM PC card installed. The Studio will accommodate a maximum of 36 students. An identical workstation is available for the Instructor inside the Instructors Console. This workstation has a ZIP100 drive installed. All workstations have 2 laptop network connections. These are the BLUE RJ-45 jacks. The students must provide their own connection cables to these jacks.

There are 4 projectors available. The 2 outside projectors are Sharp E1200U units rated at 600 lumens with a maximum resolution of 1024 x 768. The 2 inside projectors are JVC DLA-G11U units rated at 1000 lumens with a maximum resolution of 1280 x 1024 to handle the higher resolution of the Sun Ultra 10 workstations. The projectors and their inputs are controlled by an integrated touch screen control system.

View of Computer Studio Touch Screen Control

The Instructors Console has 2 visual presenters. One is an Elmo EV-500AF used for writing lecture notes. This unit has TV quality and a faster refresh rate. The other unit is a Samsung SVP-6000N with computer video output and a maximum resolution of 1280 x 1024. The video refresh rate is slower. The Samsung should be set to XGA (1024 x 768) for normal operation due to the limitations of the Sharp E1200U projectors.
There also is a Sharp LC-121M2U color lcd monitor on the Instructors Console for observing the output of the visual presenters without the need for looking at the projector screens.

The Instructors Console also has a Panasonic PV-Vs4820 VCR, a CD player, an integrated audio system, plus connections for laptop video output to the projectors. Laptop network connections are also available.

There are two switchers located to the right of the Touch Screen Control. The top switcher is a 4 input Extron SW4 VGAxi computer video switcher. This is the laptop/Sun PC select. Normal position is #4 for the Sun Ultra 10. The bottom switcher is a Extron SW6 SV MX 6 input/2 output S-video switcher. This selects the normal S-video to the Console monitor or the output from communications camera CAM1. The normal position is #1. Position #2 is used to setup the position of CAM1 to project the Instructors image on the remote Console Monitor in the Extension Studio or the White Board behind the Instructor to the Remote Sharp projector in 6314JEC. For the White board to display on the Remote Sharp, you must turn on the Elmo and select Ext AV1 input.

There is a Speaker A/B select located to the lower right of the Instructors Console. This allows you to send audio to 6314JEC (B) in addition to 6309JEC (A). These switches are selected when in and de-selected when out. When using the wireless mike in the Combined Studio mode, de-select the 6309JEC (A) speakers.

There is a Canon VC-C3 communications camera (CAM1 for 6309 and CAM2 for 6314) mounted in both the Computer Studio, 6309JEC and the Extension Studio, 6314JEC. There is a Sharp LC-121M2U color lcd monitor on each of the Instructors Console. This allows 2-way communication between the instructor in 6309 and the students in 6314 during combined mode. The cameras are controlled from the 6309 Touch Control Screen. You can also send the White Board image to 6314JEC.

Extension Studio

The Extension Studio is equipped with 8 Sun Ultra 10 workstations each with a compatible IBM PC card installed. The Studio will accommodate a maximum of 16 students. An identical workstation is available for the Instructor inside the Instructors Console. This workstation has a ZIP100 drive installed. All workstations have 2 laptop network connections. These are the BLUE RJ-45 jacks. The students must provide their own connection cables to these jacks.

There are 2 projectors available. The inside projector is a Sharp PG-D210U unit rated at 1000 lumens with a maximum resolution of 1280 x 1024. The outside projector is a JVC DLA-G11U unit rated at 1000 lumens with a maximum resolution of 1280 x 1024 to handle the higher resolution of the Sun Ultra 10 workstations and be identical to the Computer Studio.

The Instructors Console has 1 visual presenter. This unit is a Samsung SVP-6000N with computer video output and a maximum resolution of 1280 x 1024. The video refresh rate is slower.
The Instructors Console also has a Panasonic PV-VS4820VCR and connections for laptop video output to the projectors. Laptop network connections are also available. These are the BLUE RJ-45 jacks.

The projectors are controlled manually when used as a stand-alone studio. The JVC projector is called Remote JVC and the Sharp projector is called Remote Sharp when both studios are used together. The remote controls are illustrated below. The normal setting for the Sharp projector remote control is data1, which selects the Samsung to be displayed. The normal settings for the JVC projector remote control is Computer 2, which selects the Sun Ultra 10 to be displayed. Selecting JVC Video Y/C selects the VCR for display. The Sharp LC-121M2U monitor display is set to AV1 for 2 way communication when used in the Combined Studio mode. It is not used during stand-alone studio mode.

Note that there are two switches that control the direction of video inputs to the projectors located to the right of the console monitor. These switches determine whether the Extension studio operates as stand-alone or as a combined studio. One switch selects the Sun Ultra 10 PC in 6314JEC or inputs from 6309 JEC to the JVC projector. The second switch selects the Samsung visual presenter in 6314JEC or inputs from 6309 JEC to the Sharp Projector.

Combined Studio

Both studios can be controlled from the Computer Studio Touch Control Screen to form a large, 52 seat, studio. To do this, you must first select the mode by putting the 2 projector control switches, located in 6314JEC, to 6309JEC.

The Instructor has the ability to communicate with both studios simultaneously. Through the use of a wireless microphone, the Instructor can talk to the students in the Extension Studio. De-select Cstudio (A) speaker switch.
Sharp LC-121M2U Remote Control Unit

Remote control

Infrared transmitter window

Menu control section

- **Power On/Off button**
- **AV input button**
- **Select buttons**
- **Volume up/down buttons**

**SHARP**

**LCD MONITOR**

**G1459CESA**

- The side control section of the main unit is also provided with the AV input, select, volume up/down and menu buttons.

- This manual describes button functions by referring to the buttons on the remote control.

**Side control section of main unit**

The main power switch is not provided on the remote control.
Sharp LC-121M2U Monitor Display Selection

- Each time the AV INPUT button on the main unit or remote control is pressed, the indication at the upper right corner on the screen changes in the following order.

**Screen**

<table>
<thead>
<tr>
<th>Initial mode (AV1)</th>
<th>AV1 mode</th>
<th>AV2 mode</th>
<th>COMPONENT mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV INPUT</td>
<td>AV1 N358</td>
<td>AV2 N358</td>
<td>COMPONENT NTSC</td>
</tr>
</tbody>
</table>

- 1st push: Displays the current AV input mode

- When the AV2 output function is in use (参 P10), the mode switches between COMPONENT and AV1.

Sharp PG-D210U Remote Control Unit

Wireless Mouse Remote Control

**Front View**

- TRANSMIT indicator
- MUTE button
- POWER ON/OFF buttons
- BLACK SCREEN button
- RIGHT-CLICK/ENTER button
- INPUT SELECT buttons
- INPUT CHECK button
- MOUSE label
- MOUSE/ADJUSTMENT switch
- LIGHT button

**Side View**

- MAIN POWER switch of remote control
- LEFT-CLICK button
- LASER POINTER/MENU button
- VOLUME UP-DOWN buttons

**Remote control handling precautions**

- The laser beam used in this product is harmless when directed onto the skin, however please be careful not to project the beam directly into the eyes. Do not stare into the beam using an optical instrument.

- Do not expose the remote control to shocks, liquids or high humidity. The remote control may not operate normally if exposed to direct sunlight or other intense light sources. Should this happen, reposition the light source or the projector.

When you change the setting of the MOUSE/ADJUSTMENT switch, the functions of certain buttons on the remote control change. You can tell which function the button currently possesses by the color of its backlight display.
JVC DLA-G11U
Remote Control

1. Remote control's signal transmitter

2. COMPUTER button
Use this button to select the devices connected to the projector's COMPUTER IN (computer input) -1 and -2 input terminals. Each time you press the button, the selection changes as follows:

COMPUTER 1 ➔ COMPUTER 2

3. VIDEO button
Use this button to select the devices such as a video connected to the projector's AV IN (AV input) terminal. Each time you press the button, the selection changes as follows:

Y/C ➔ VIDEO ➔ Y,P/B,Y,P/R-Y

4. ZOOM (T/W) button
Use these buttons to increase or decrease the screen size. (The projector's projection lens is an electrically driven zoom lens of about 1.5 x.)

T: The screen size decreases.
W: The screen size increases.

5. FOCUS (+/-) button
Use these buttons to adjust the focus of the projected video.

+: The focus point becomes more distant.
-: The focus point becomes nearer.

6. MENU/ENTER button
Use this button to display the main menu. While the main menu is displayed, pressing this button displays a details setting (submenu) for items with details settings.

7. Cursor (△▼◄►) button
While the main menu is displayed, use these buttons to select an item to adjust or make adjustment.

8. AV MUTING (On/Off) button
Use this button to turn off the video image and audio sound temporarily. Pressing it again makes the video image and audio sound to resume.

9. QUICK ALIGN (Quick Alignment) button
Use this button to automatically adjust TRACKING, PHASE, H. POS., and V. POS. of the projected video. During the automatic adjustment, QUICK ALIGNMENT appears on the screen, and disappears after it is finished.

Memo
Quick alignment function:
Does not work for video input (AV IN input terminal) signals.
Works only for computer-related (COMPUTER-1 and -2 input terminals) signals.

CAUTION
- Automatic adjustment with the quick alignment function should be done on a bright still-picture screen. This function may not work correctly on a dark screen or motion-picture screen. If adjustment with this function is not satisfactory, adjust TRACKING, PHASE, H. POS., and V. POS. manually (see pages 31, 37 and 38).

10. PRESET button
While making adjustment on the main or setting menu, use this button to reset the setting of the selected item to the factory-set value. This button works only for numerical settings and does not work for switching ON to OFF.

11. PAGE BACK button
While a details setting is displayed, use this button to go back to the previous page.

12. VOL. (Volume) (+/-) button
Use these buttons to adjust the sound volume:

+: Increase the volume level.
-: Decrease the volume level.

13. OPERATE button
To turn on the power, press this button for one second or more.

- About 30 seconds after the power has turned on, video image will appear on the screen.