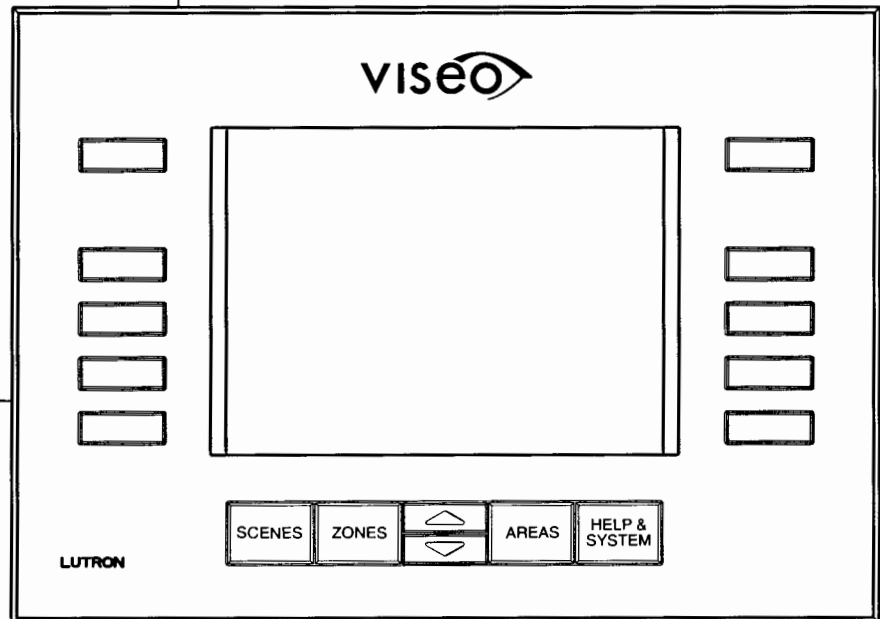
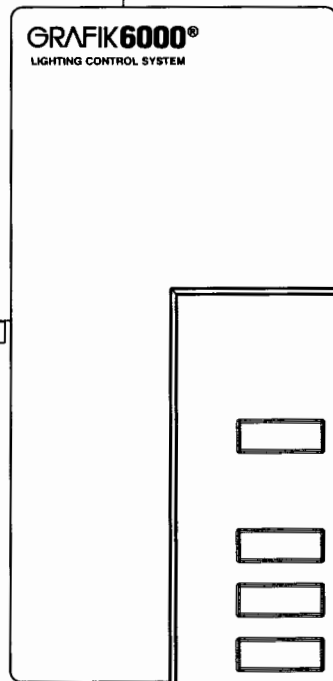
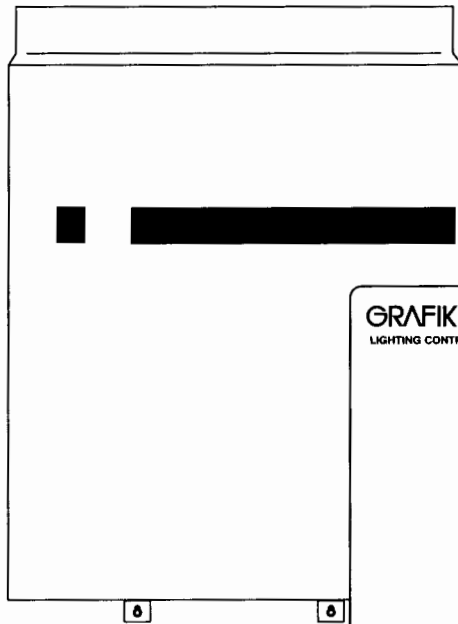


**GRAFIK5000™/  
GRAFIK6000®**



***Viseo* Display Control (VDC)  
Operation Manual**



**LUTRON®**

**OMX-VDC-LB  
OMX-VDC-LF**

# Notes

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**Note:** The letters **VDC** stand for **V**iseo **D**isplay **C**ontrol.

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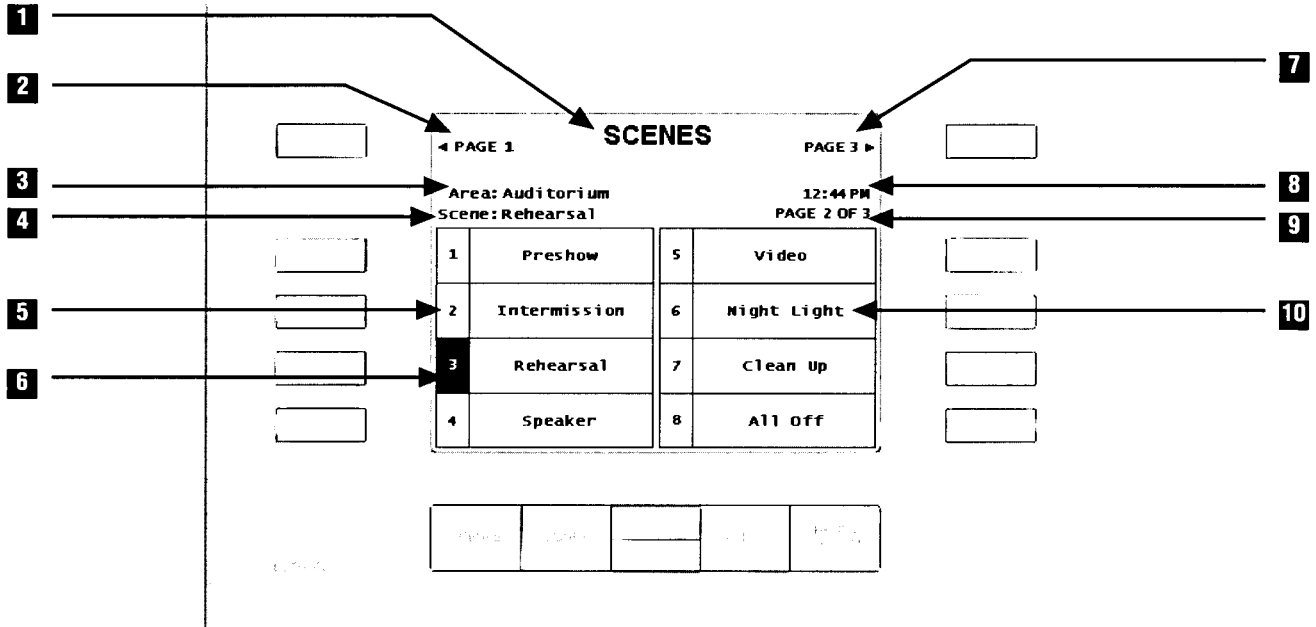
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## Basic Screen Layout



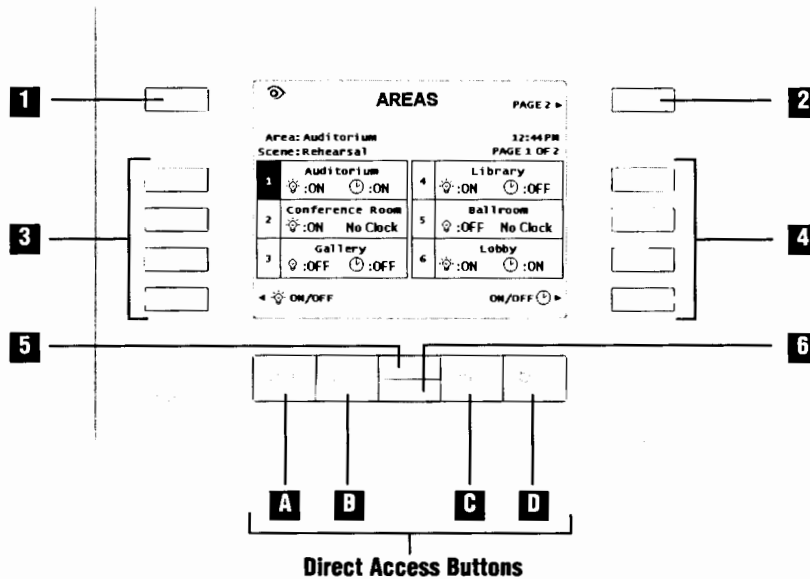
**Figure 1: Basic Screen Layout**

- 1 Page title
- 2 Return to previous page (when active)
- 3 Current area being monitored, controlled, or programmed
- 4 Current scene of the current area
- 5 Scene number
- 6 Selected scene (current scene - highlighted number box in screen above)
- 7 Scroll up to additional pages (when active)
- 8 System time
- 9 Current page
- 10 Scene name



# Viseo Display Control (VDC) Basics

## Location and Function of Buttons



**Figure 2: VDC Button Layout**

1. **Previous Page (when available)** - Displays the previous page of scenes, zones, or areas (i.e. lower numbered scenes, zones or areas). Note that this button also serves other purposes on some of the options pages.
2. **Next Page (when available)** - Displays the next page of scenes, zones, or areas (i.e. higher numbered scenes, zones or areas). Note that this button also serves other purposes on some of the setup menu pages.
3. **Left Buttons** - These buttons select the scene, zone, area, or option that is listed on the screen directly to the right of the button.
4. **Right Buttons** - These buttons select the scene, zone, area, or option that is listed on the screen directly to the left of the button.
5. **Raise Button** - Increases the intensity of the selected zone(s) or all zones in the selected scene or area. Also, scrolls up through available options of the selected field. On some pages, this button performs no function.
6. **Lower Button** - Decreases the intensity of the selected zone(s) or all zones in the selected scene or area. Also, scrolls down through available options of the selected field. On some pages, this button performs no function.

### Direct Access Buttons

Pressing a Direct Access Button sends the user to the appropriate page.

- A. **SCENES Button** - Displays the Scenes page for the current area selected. Enables the user to select the scene to program when in programming mode.
- B. **ZONES Button** - Displays the Zones page for the current area selected.
- C. **AREAS Button** - Displays the Areas page.
- D. **HELP & SYSTEM Button** - Displays the Help page for the current page.



**Before proceeding to the next section,**

**Please read !**

## **Fundamentals for Operating the VDC**

- The letters **VDC** stand for **V**iseo **D**isplay **C**ontrol.
- When viewing the *Scenes*, *Zones*, or *Areas* pages, the screen may not be able to display all of the scenes, zones, or areas that are in the system on a single page. The screen can show eight (8) scenes at one time on one page, six (6) zones at one time, or six (6) areas at one time. If the desired scene, zone, or area is not on the screen, use the PREVIOUS PAGE (top left) and NEXT PAGE (top right) buttons to navigate to the other pages.
- If the space on the screen beside a button is blank, that button performs no function.
- If the backlight has timed out and turned Off, any button press on the unit will activate the backlight. The next button press will perform its normal function.
- If the screen displays "Please Wait. Reading ...", the unit is downloading the area, scene, and zone name data from the G5000/G6000 processor. This may take a few minutes, depending on the size of the lighting control system database. The only button that will perform a function during this time period is the HELP & SYSTEM button. Pressing this button will stop the download and display the *Viseo Setup Menu* page.

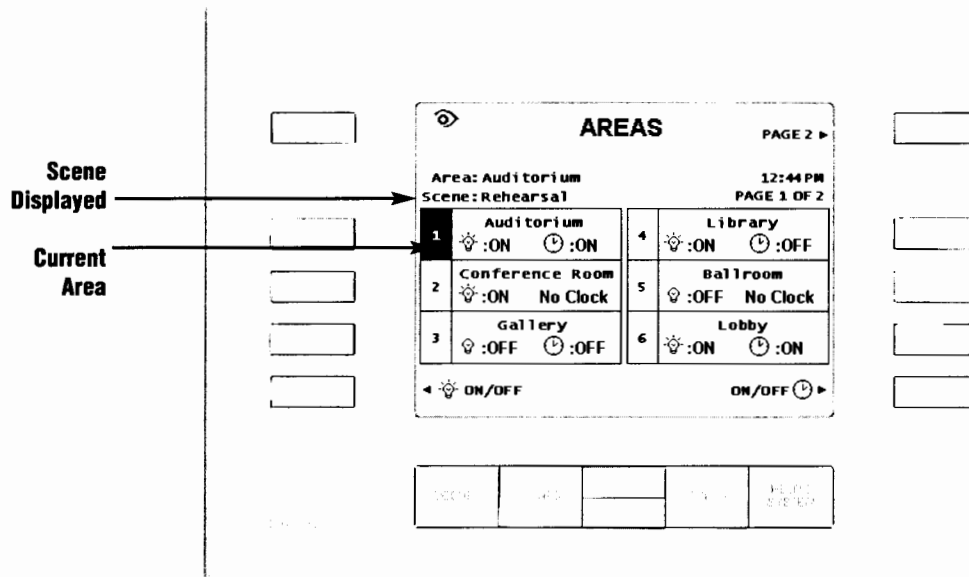


# Normal Operation

**Note:** If the area/scene/zone that you want to monitor is not on the current page, use the PREVIOUS PAGE (top left -see page 3) and NEXT PAGE (top right - see page 3) buttons to navigate to other pages of areas/scenes/zones.

## A. Monitoring the Scene Status in All Areas

1. Press the AREAS button.
2. Select an area to monitor by pressing the button next to the appropriate area name. Use the buttons on the left and right sides of the VDC.
3. Finally, note the scene of the current area being displayed in the Scene field on the screen.



**Figure 3: Areas Page**

## B. Turning Lights On and Off in an Area

1. Press the AREAS button to display the *Areas* page.
2. Select an area by pressing the button next to the appropriate area name.
3. Note the status of the lights in the area [(next to the light bulb symbol) = On = Off].
4. Select ON/OFF (bottom left) to switch the lights On (first scene of the area) and Off (last scene of the area). If the area is set to MONITOR ONLY (see pg. 20), the user will not be able to turn the lights On and Off.

## C. Turning the Timeclock On and Off in an Area

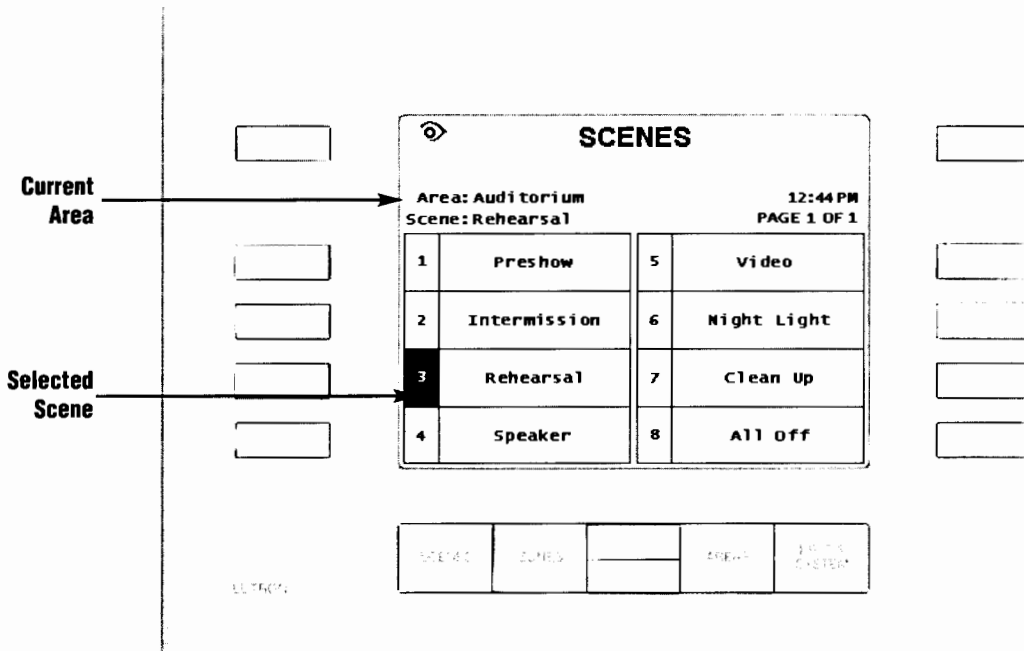
1. Press the AREAS button to display the *Areas* page.
2. Select an area by pressing the button next to the appropriate area name.
3. Note the status of the timeclock in the area (next to the clock symbol ). If no events are scheduled in that area, "No Clock" will appear in the box.
4. Select ON/OFF (bottom right) to switch the timeclock On and Off. The timeclock can only be changed if that area is set to PROGRAMMABLE (see page 19).





## D. Selecting a Scene in an Area

1. Press the AREAS button.
2. Select an area by pressing the button next to the appropriate area name.
3. Press the SCENES button.
4. Select a scene to activate by pressing the button next to the appropriate scene name.



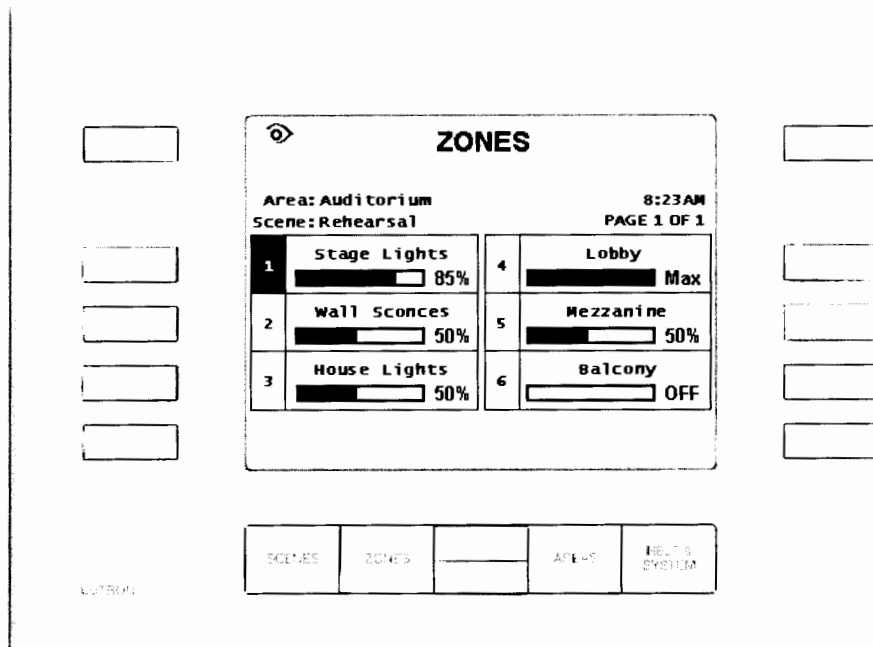
**Figure 4: Scenes Page**



## E. Changing a Zone Level Manually

**Note:** All zone level changes discussed on this page are **TEMPORARY** and do not change the G5000/G6000 processor panel database settings.

1. Press the AREAS button.
2. Select an area by pressing the button next to the appropriate area name.
3. Press the ZONES button.
4. Select a zone by pressing the button next to the appropriate zone name.
  - a. To deselect a zone, the button beside it **MUST** be pressed again. Simply pressing a different zone button will not deselect the previously selected zone.
  - b. Multiple zones from the same page **CAN** be selected and changed. Once the PREVIOUS PAGE or NEXT PAGE button is pressed, all zones are deselected.
5. Use the Raise and Lower buttons to change the levels of the selected zones. The zone levels on the screen will change.



**Figure 5: Zones Page**

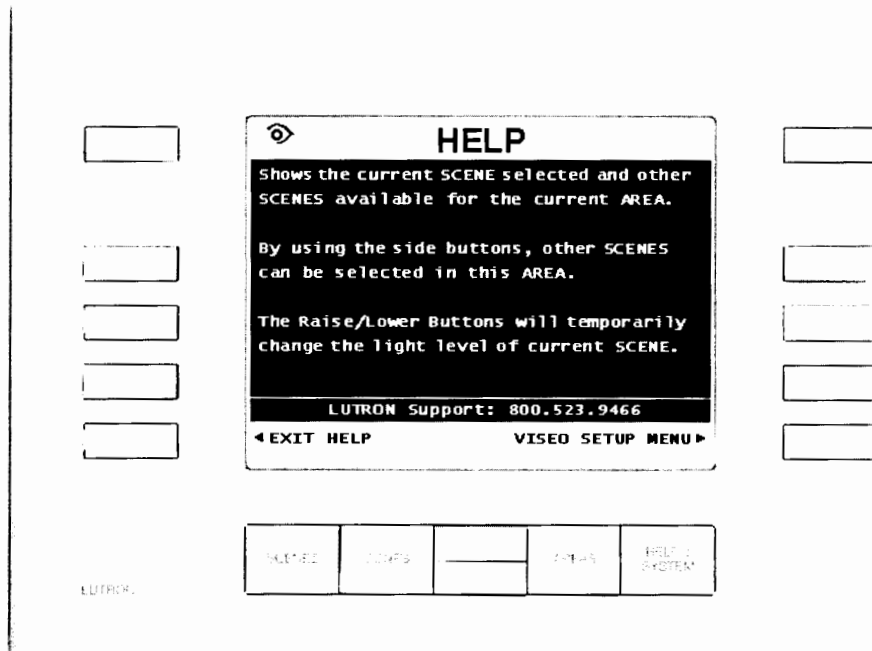
## F. Raising and Lowering all Zones in a Scene

1. Press the SCENES button to display the *Scenes* page.
2. Select a scene by pressing the button next to the appropriate scene name.
3. Press the Raise and Lower buttons to change the levels of all zones in the selected scene.



## G. Accessing the Help Screen

1. If help with a page is necessary, press the HELP & SYSTEM button.
2. To exit help, press any of the direct access buttons or select EXIT HELP (bottom left button) to return to the previous page.



**Figure 6: Help Screen for the Scenes Page**



# Programming Mode

- Note:**
1. The letters **VDC** stand for **V**iseo **D**isplay **C**ontrol.
  2. If the scene to be programmed is not on the current page, use the PREVIOUS PAGE (top left - see page 3) and NEXT PAGE (top right - see page 3) buttons to navigate to other pages of areas/scenes/zones.

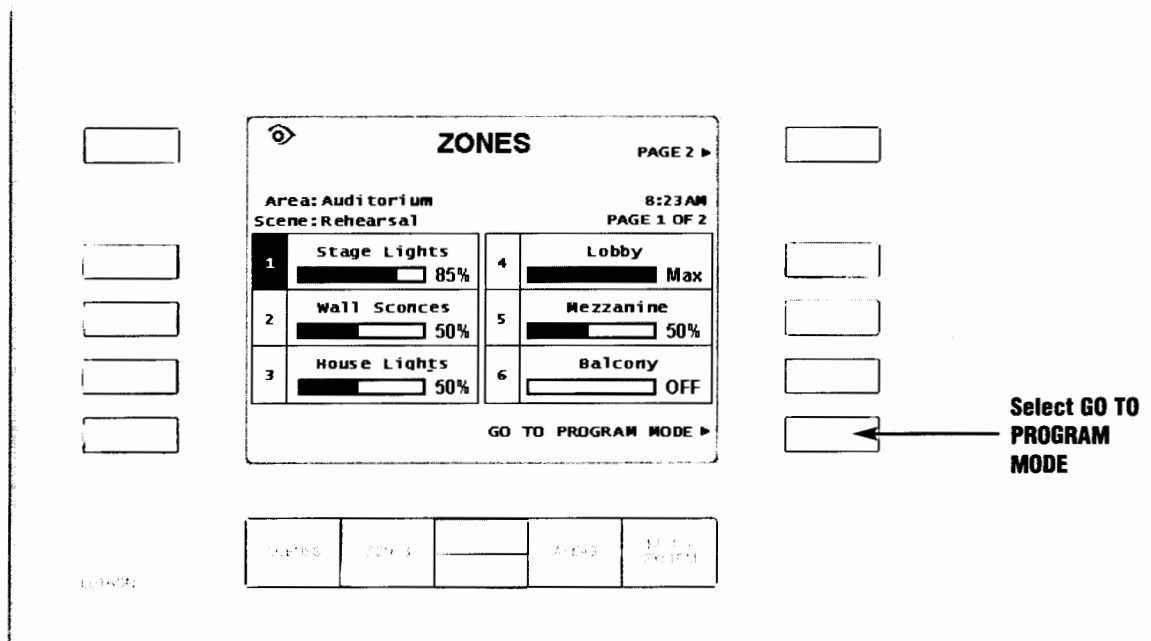
Programming mode allows the user to change the scenes saved in the G5000/G6000 database. For all of the zones in each scene of every area, the user can set:

- **Intensity** - the light level of the zone.
- **Fade Rate** - the time it takes a zone to raise or lower its intensity from the current level to the new level of the scene that was just selected.
- **Delay Rate** - the time it takes for a zone to begin changing after the scene has been selected.

## A. Entering Programming Mode

1. Press the AREAS button and select an area to program.
2. Press the ZONES button.
3. Select GO TO PROGRAM MODE (bottom right button).

**Note:** If the area is **NOT** set to PROGRAMMABLE (see pg. 20), this option will not be visible on the screen. When the user unlocks access to the VDC from the *Viseo Setup Menu* (see page 16 & 26 for details), all non-hidden areas in the system become programmable. The user then has access to program all of the non-hidden areas until the access timeout has expired or LOCK AREAS (SEE PG. 26) on the *Viseo Setup Menu* page is pressed. At this time, the areas return to their normal settings.



**Figure 7: Zones Page with Programming Option Visible**



# Programming Mode

## A. Entering Programming Mode (continued)

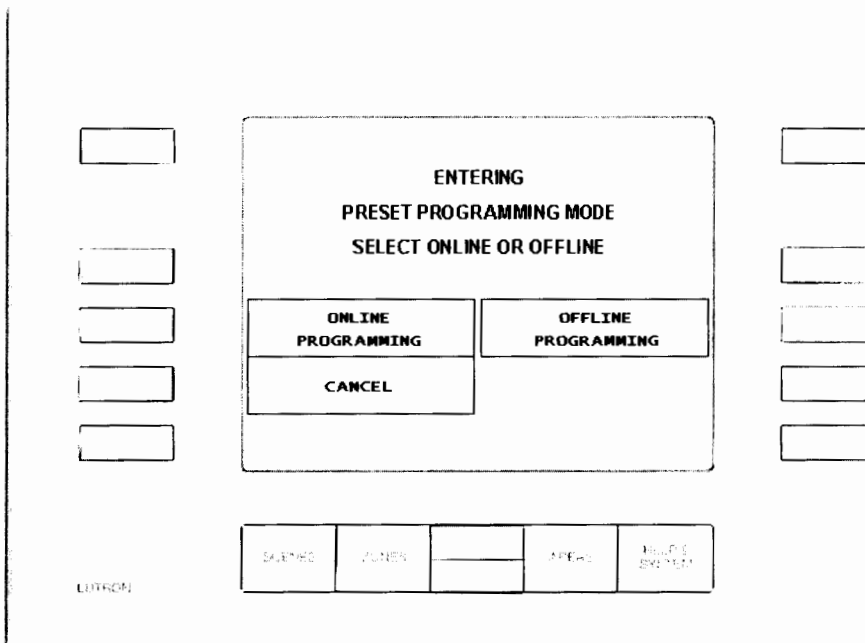
### Online Programming vs. Offline Programming

There are two different programming modes in the *GRAFIK 5000/GRAFIK 6000* system. In *Online Programming*, the light intensities in the selected scene of an area will change while programming the zone levels. During *Offline Programming*, the light intensities in the selected scene of an area will not change while programming the zone levels. This mode can be used when there are people occupying an area. Changes made during Offline Programming take effect the next time the scene is selected from the VDC, or any other control.

1. Select ONLINE PROGRAMMING or OFFLINE PROGRAMMING.

After selecting Online or Offline Programming, the *Zones: Setting Intensities* page (for the current scene) is automatically displayed.

**Note:** All programming steps on the following pages are identical for Online or Offline Programming.



**Figure 8: Online or Offline Programming Selection Screen**

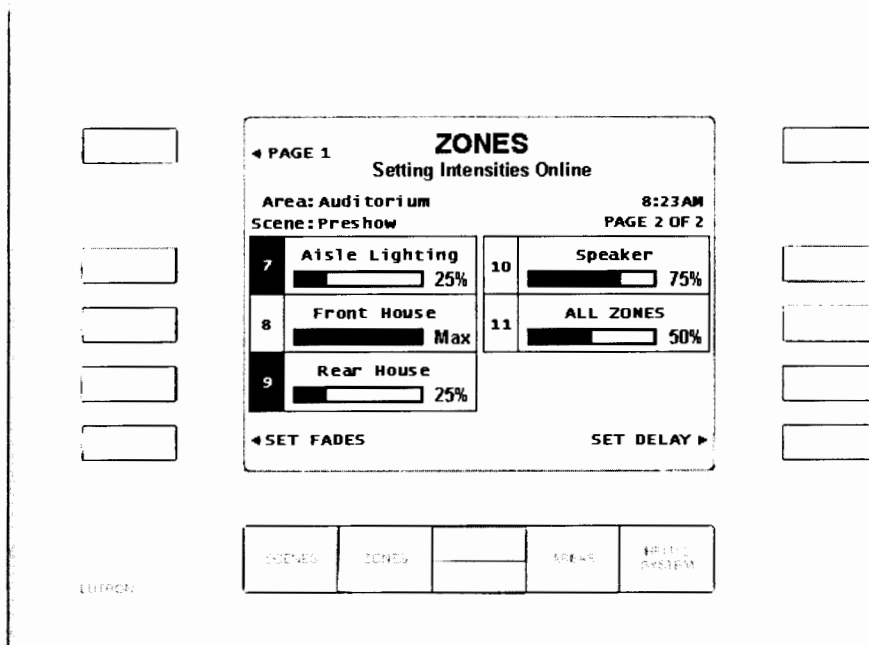


## B. How to Program a Scene

### Programming Zone Intensities of the Scene

**Note:** If the current page is not the *Zones: Setting Intensities* page, select SET INTENSITY.

1. Select the zone(s) that needs to be changed.
  - a. To deselect a zone, the button beside it **MUST** be pressed again. Simply pressing a different zone button will not deselect the previously selected zone.
  - b. Multiple zones from the same page **CAN** be selected and changed. Once the PREVIOUS PAGE or NEXT PAGE button is pressed, all zones are deselected.
  - c. To select all zones, scroll to the last page of zones and select the zone that reads ALL ZONES.
2. Use the Raise and Lower buttons to set the zone(s) to the desired level.
3. To program another zone in this scene, deselect the current zone and repeat steps 1 and 2.



**Figure 9: Setting Intensities Screen**



# Programming Mode

## B. How to Program a Scene (continued)

### Programming the Fade Rate of the Scene

1. Select SET FADES, and the *Zones: Setting Fades* page will be displayed.
2. Select the zone(s) that that requires a fade rate change.
  - a. To deselect a zone, the button beside it **MUST** be pressed again. Simply pressing a different zone button will not deselect the previously selected zone.
  - b. Multiple zones from the same page **CAN** be selected and changed. Once the PREVIOUS PAGE or NEXT PAGE button is pressed, all zones are deselected.
  - c. To select all zones, scroll to the last page of zones and select the zone that reads ALL ZONES.
3. Use the Raise and Lower buttons to set the zone(s) to the desired fade rate. The fade rate ranges from 0-99 seconds or 2-60 minutes.

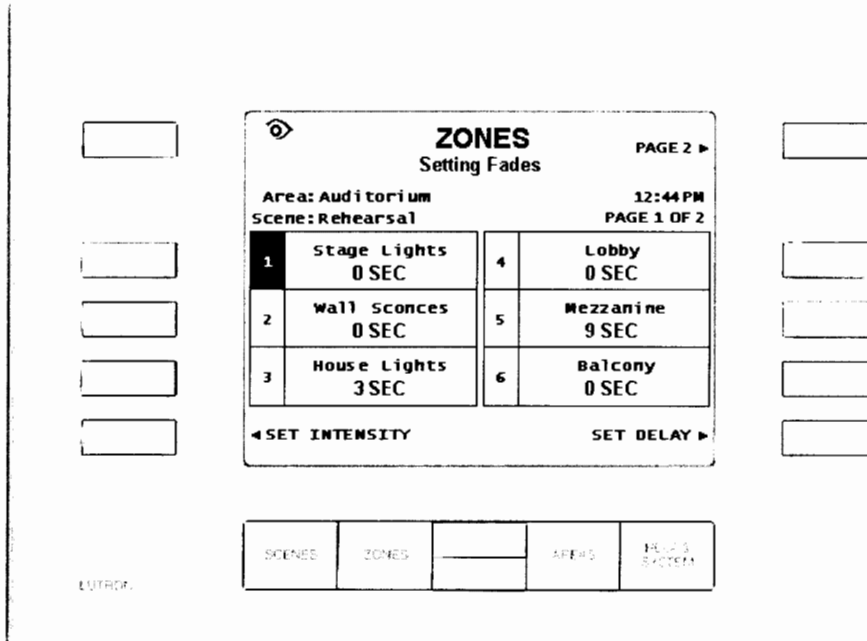


Figure 10: Setting Fades Screen



# Programming Mode

## B. How to Program a Scene (continued)

### Programming the Delay Rate of the Scene

1. Select SET DELAY and the *Zones: Setting Delays* page will be displayed.
2. Select the zone(s) that requires a delay rate change.
  - a. To deselect a zone, the button beside it **MUST** be pressed again. Simply pressing a different zone button will not deselect the previously selected zone.
  - b. Multiple zones from the same page **CAN** be selected and changed. Once the PREVIOUS PAGE or NEXT PAGE button is pressed, all zones are deselected.
  - c. To select all zones, scroll to the last page of zones and select the zone that reads ALL ZONES.
3. Use the Raise and Lower buttons to set the zone(s) to the desired delay rate. The delay rate ranges from 0-99 seconds or 2-60 minutes.

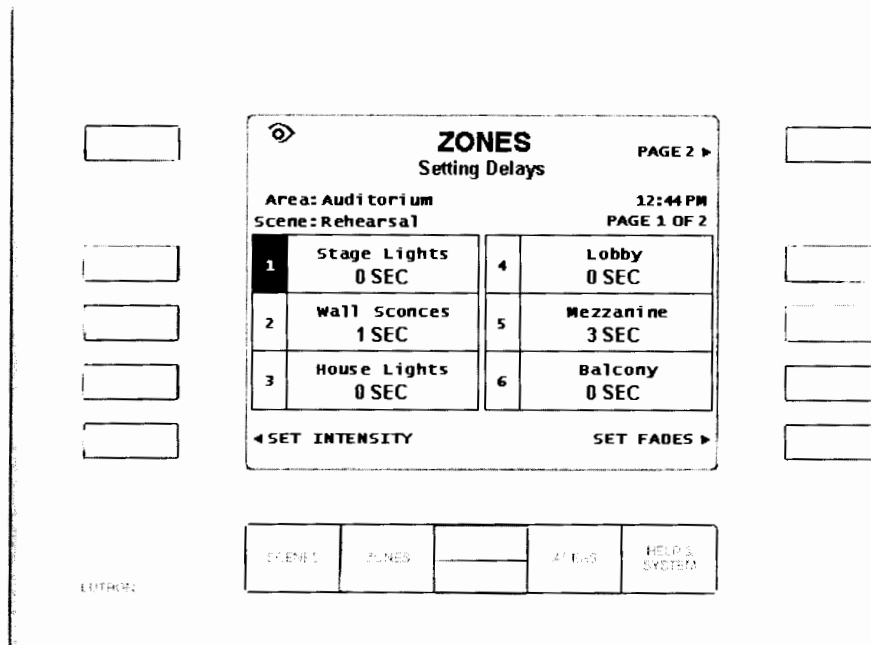


Figure 11: Setting Delays Screen





## B. How to Program a Scene (continued)

### Selecting a Scene to Program

1. Press the SCENES button, and the *Scenes: Select Scene to Program* page will appear.
2. Select a scene to program, and the programming page for that scene will appear.

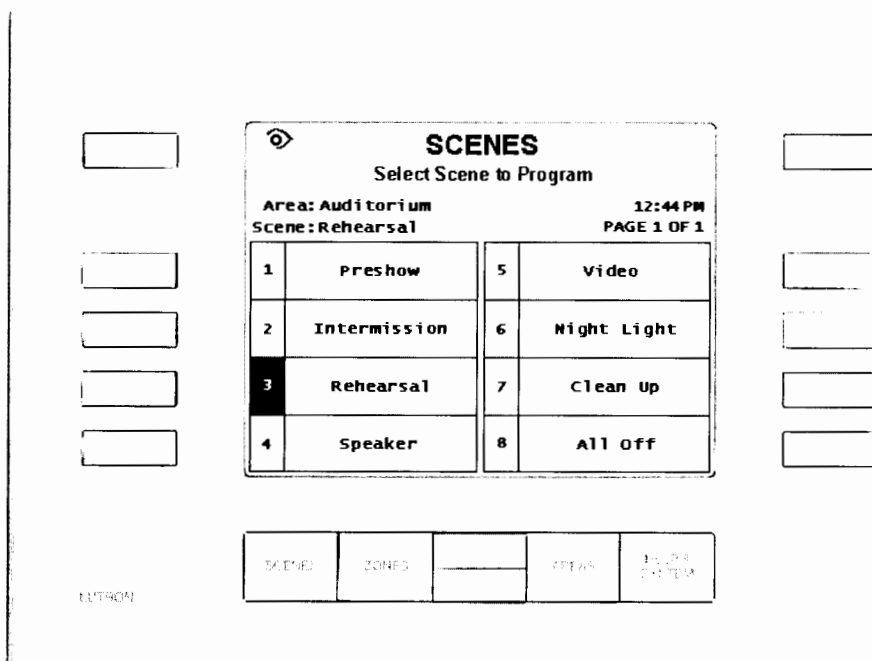


Figure 12: Select Scene To Program Screen

## C. Exiting Programming Mode

To exit programming mode, press the AREAS button.

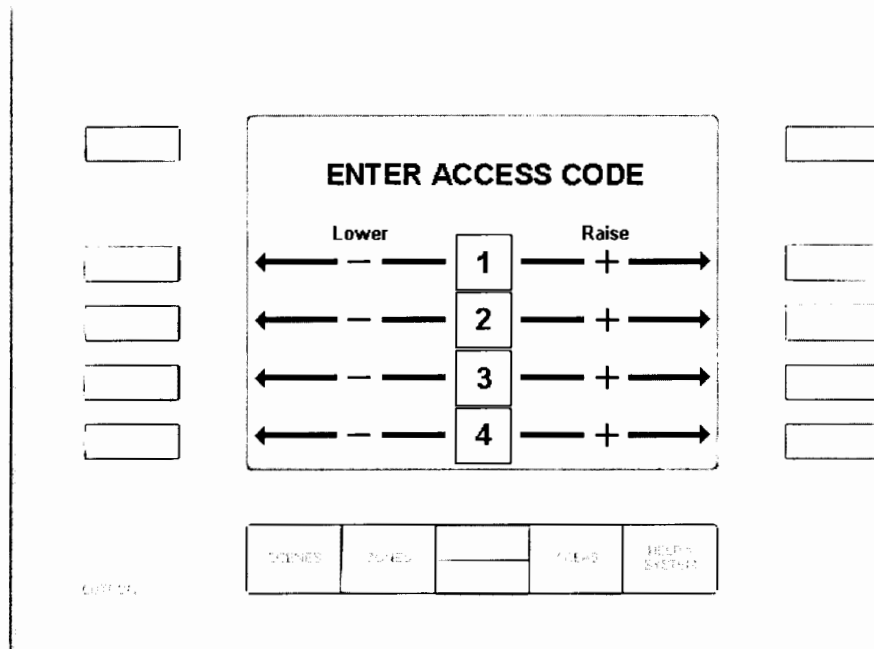
**Note:** The programming changes made on a VDC are only saved in the G5000/G6000 processor. No changes are saved to the database in the PC that is connected to the G5000/G6000 processor. To save changes to the database in the PC, see Appendix C (pg. 30-31).



**Note:** The letters **VDC** stand for **V**iseo **D**isplay **C**ontrol.

## A. Accessing the Viseo Setup Menu

1. Press HELP & SYSTEM.
2. Select VISEO SETUP MENU (bottom right button).
3. If required, enter the appropriate access code by selecting + (right side buttons) and - (left side buttons).  
**Note:** The **default** access code set at the factory is **1000**.
4. When the correct access code has been entered in the squares, the screen will automatically display the *Viseo Setup Menu*.



**Figure 13: Enter Access Code Screen**

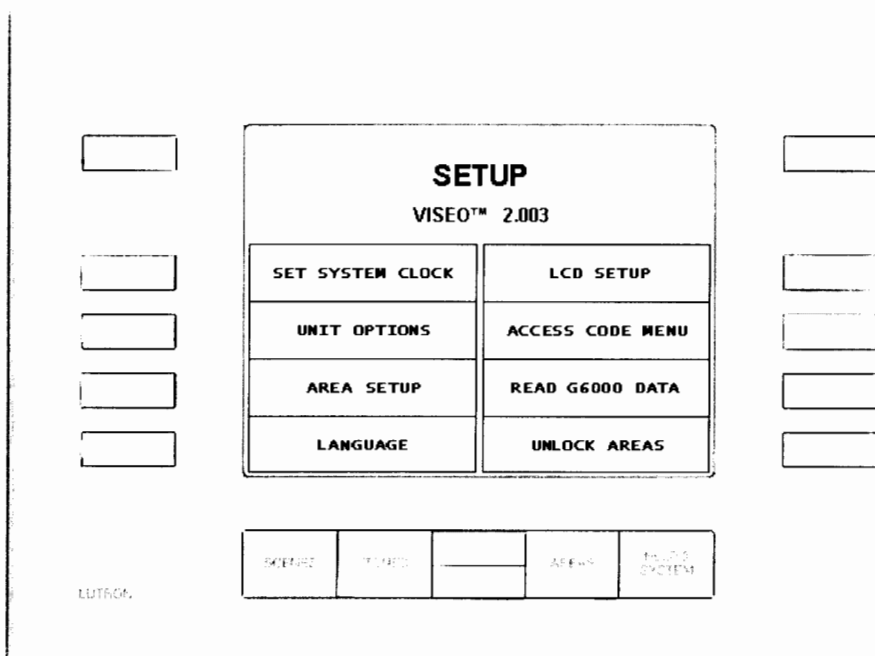


## B. Setup Menu Choices

The *Viseo Setup Menu* allows the user to customize the VDC's preferences. Use the side buttons to select these choices.

### **Viseo Setup Menu Choices:**

1. SET SYSTEM CLOCK - allows the user to set the date and time for the *GRAFIK 5000/GRAFIK 6000* System.
2. UNIT OPTIONS - allows the user to adjust the Link Address, Default Area, and Area & Scene Numbers.
3. AREA SETUP - allows the user to change the settings for each of the areas.
4. LANGUAGE - allows the user to change the display language.
5. LCD (Liquid Crystal Display) SETUP - allows the user to change the LCD settings.
6. ACCESS CODE MENU - allows the user to make changes to the access requirement settings.
7. READ G6000 DATA - download the area, scene, and zone names from the G5000/G6000 processor database into the VDC.
8. UNLOCK/LOCK AREAS - switches the unit between "Areas Unlocked" mode and "Areas Locked" mode.



**Figure 14: Viseo Setup Menu Screen**

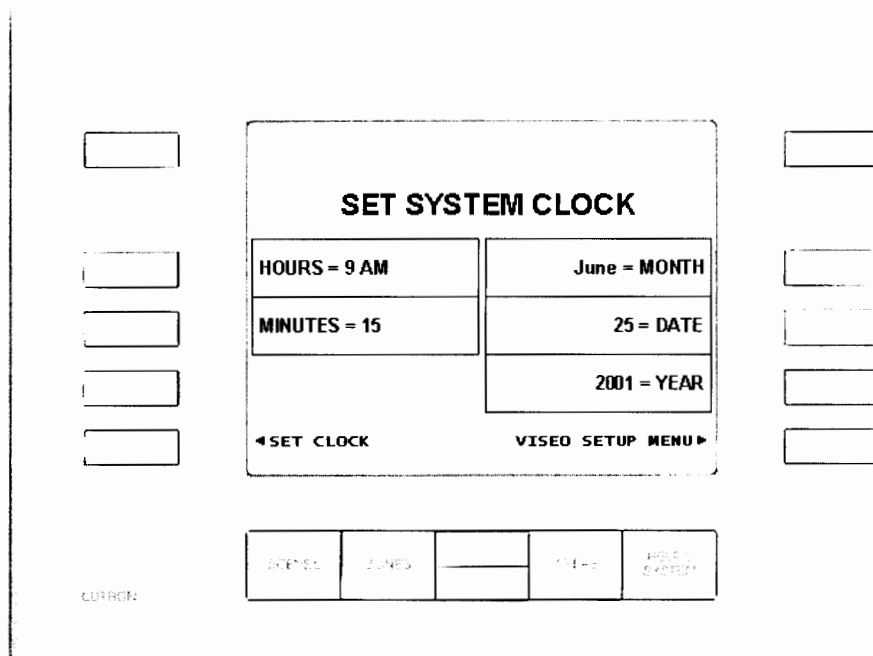


## 1. Set System Clock

This page allows the user to set the date and time for the *GRAFIK 5000/GRAFIK 6000* System.

### How to Set System Clock:

- Select each of the clock options (Hours, Minutes, Month, Date, and Year) and use the Raise and Lower buttons to change the entry to the desired value.
- Select SET CLOCK to save the clock values currently on the screen.
- To exit the *Set System Clock* page without saving the time, select VISEO SETUP MENU.



**Figure 15: Set System Clock Screen**



## 2. Unit Options

This page allows the user to adjust the following options:

- **Link Address** – sets the address of the VDC. This number is the same as the Wallstation link address number of the VDC in the database (see Appendix B: Including VDC in the G5000/G6000 Database). The address can be 1 through 32. Any two VDCs/Wallstations on the same link cannot have the same address.

**Note:** Lutron does **NOT** recommend changing the address of the VDC, as it is already addressed at the factory.

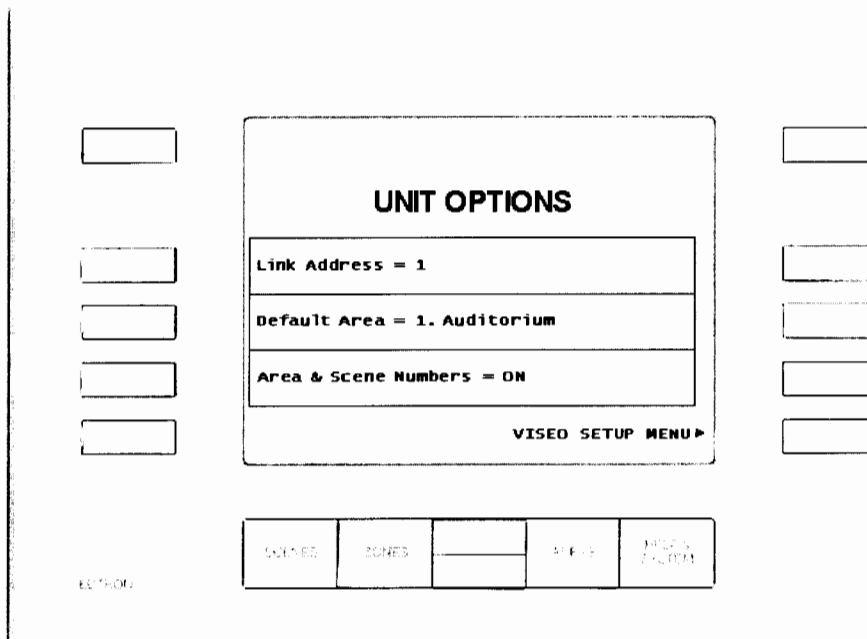
- **Default Area** – sets the default area of the system. When the access or backlight timeout is reached, the *Scenes* page of the default area is displayed on the screen. The default area cannot be hidden.

**Note:** If the default area is set to ALL AREAS, the *Areas* page will be displayed when the backlight timeout is reached.

- **Area & Scene Numbers** – turns the area and scene numbers On and Off. When this option is On, numbers are displayed in front of the area and scene names on the *Areas* page and *Scenes* page. When the option is Off, no numbers are displayed.

### How to Adjust Unit Options:

- Press the buttons on the left of the screen to select an option.
- Use the Raise and Lower buttons to change the value of the entry.



**Figure 16: Unit Options Screen**



## 3. Area Setup

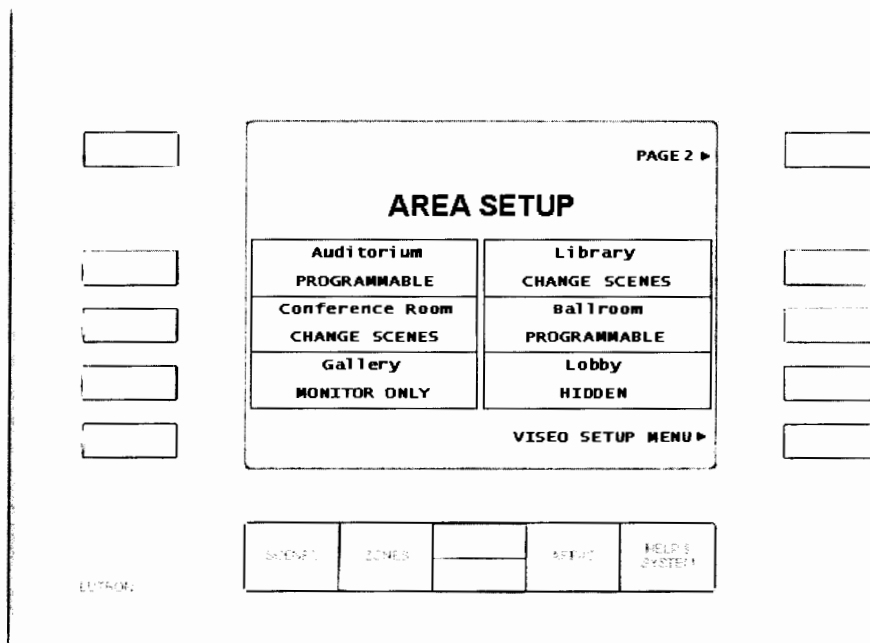
This page allows the user to change the settings for each of the areas. The possible settings are:

- **Programmable** – all users have access to program and select the scenes and switch the timeclock On and Off in this area.
- **Change Scenes** – users are able to select scenes in this area, but not reprogram the scenes or turn On and Off the timeclock.
- **Monitor Only** – users are not able to program or select scenes in this area, but they can check the current scene and light levels.
- **Hidden** – this area is hidden from the user's view on the *Areas* page. The default area (page 18) **cannot** be hidden.

### How to Adjust Area Settings:

- a. Select the area.
- b. Use the Raise and Lower buttons to display the desired option.

**Note:** When the user unlocks access to the VDC from the *Viseo Setup Menu* (by pressing UNLOCK AREAS on the *Viseo Setup Menu*, page 25), all non-hidden areas in the system become programmable. The user then has access to program all of the non-hidden areas until the access timeout has expired or LOCK AREAS on the *Viseo Setup Menu* page is pressed. At this time, the areas return to their original settings.



**Figure 17: Area Setup Screen**

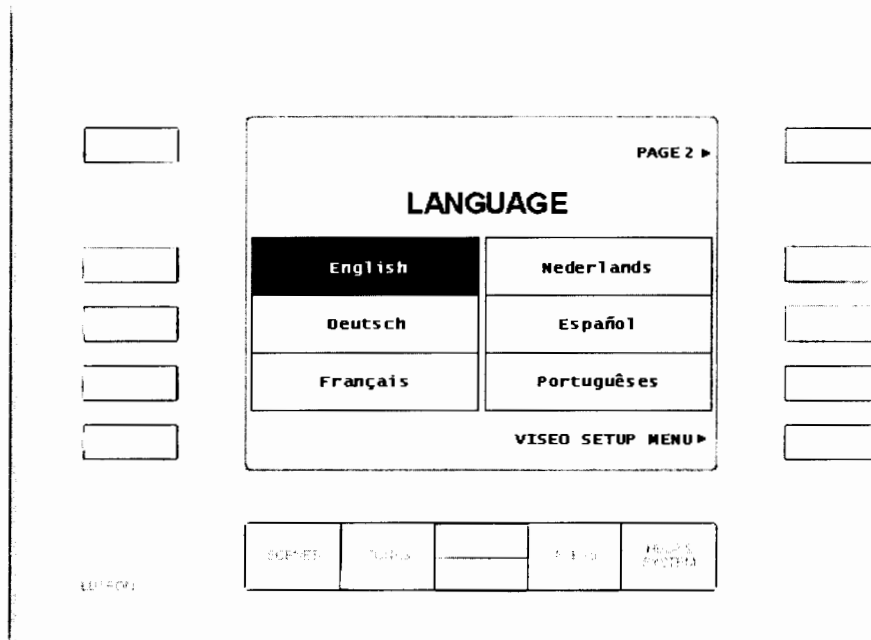


## 4. Language

These pages allow the user to change the display language for page titles, menu options, messages, etc. on the screen. The following languages are available:

- English
- Deutsche (German)
- Français (French)
- Nederlands (Dutch)
- Español (Spanish)
- Portuguêses (Portuguese)
- Italiano (Italian - on page 2)

**Note:** This language option does not translate the area, scene, or zone names that are held in the database on the laptop. These names need to be entered using G5000/G6000 Setup software in the desired language. The PC being used must have the appropriate language capabilities to display all characters on the screen.



**Figure 18: Language Selection Screen**



## 5. LCD (Liquid Crystal Display) Setup

This page allows the user to change the LCD settings:

- **LCD Contrast** – change the contrast of the LCD. This value ranges from 0% (black) to 100% (white).
- **LCD Backlight** – change the intensity of the backlight of the LCD. This value ranges from 0% (off) to 100% (on full).
- **Backlight Timeout** – change the timeout for the backlight. This timeout is reached when no one presses a button on the *Viseo* control for the length of the timeout. At this time, the backlight shuts off and the screen changes to the *Scenes* page of the default area (or the *Areas* page depending on the default area setting - see pg. 18).

### How to Change the LCD Display Settings:

- Press the buttons on the left of the screen to select an option.
- Use the Raise and Lower buttons to change the value of the entry.

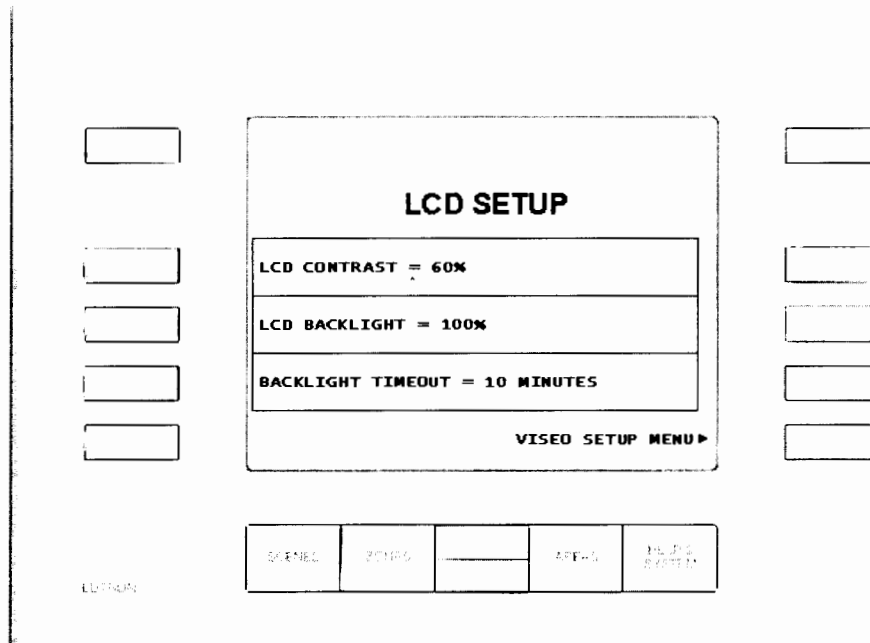


Figure 19: LCD Setup Screen





## 6. Access Code Menu

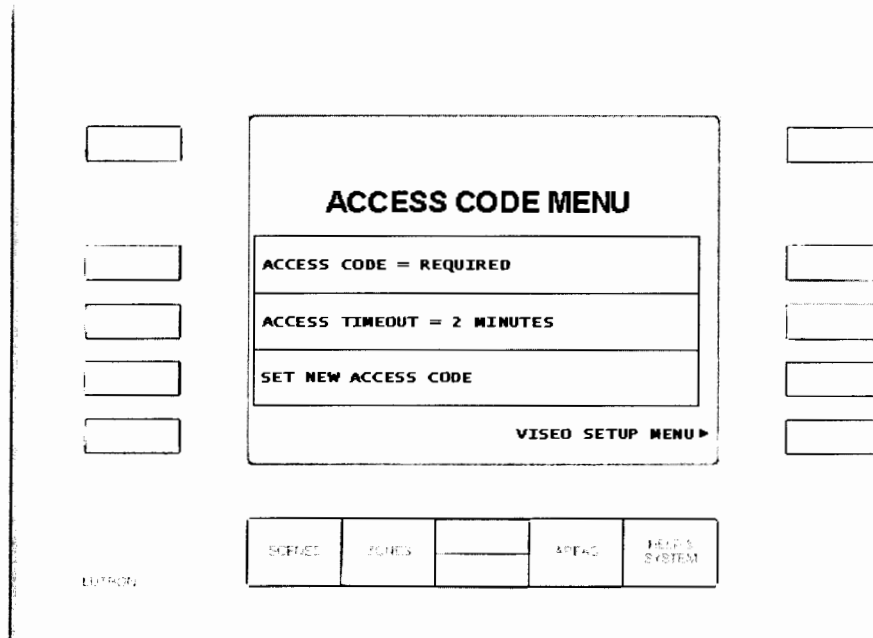
This page allows the user to make changes to the following access requirement settings:

- **Access Code** – enables (REQUIRED) and disables (NOT REQUIRED) the access code requirement. If the access code is required and a user tries to enter the *Viseo Setup Menu*, the user must enter an access code to continue. If the access code is not required, the user will not be prompted for an access code. Note that **ANY** user will be able to enter the *Viseo Setup Menu* and change the settings of the unit if the access code is set to NOT REQUIRED mode.
- **Access Timeout** – changes the timeout setting for “Areas Unlocked” mode (see page 25). This timeout is reached when no one presses a button on the *Viseo* control for the length of the timeout during setup. When the timeout expires, the *Viseo* control changes from “Areas Unlocked” mode to “Areas Locked” mode.
- **Set New Access Code** – displays the *New Access Code* page.

### How to Change the Access Requirements:

- a. Press the buttons on the left of the screen to select an option.
- b. Use the Raise and Lower buttons to change the value of the entry.

**Note:** Selecting SET NEW ACCESS CODE will take the user directly to the *New Access Code* page.



**Figure 20: Access Code Menu Screen**



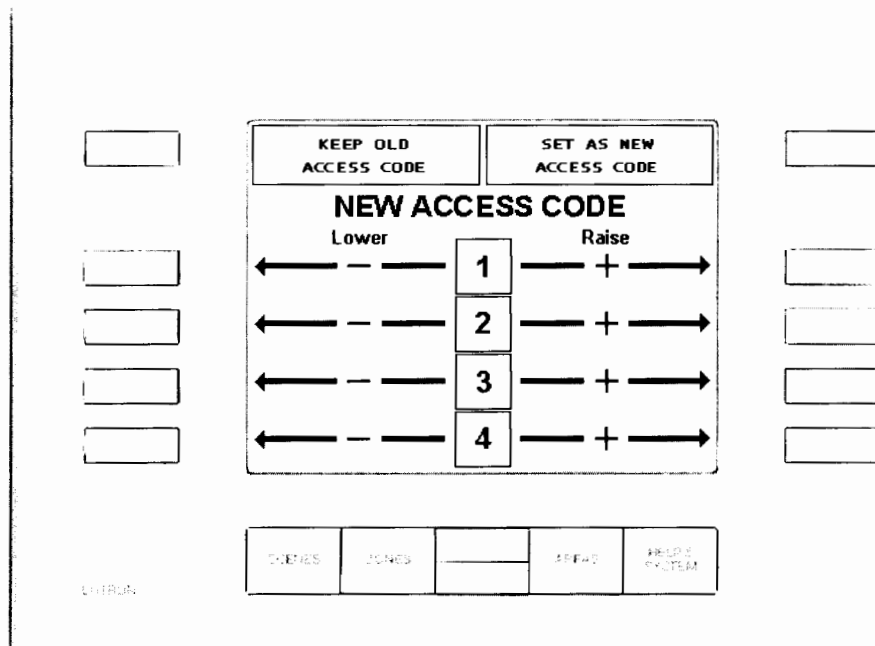
## 6. Access Code Menu (continued)

### How to Set a New Access Code:

- On the *Access Code Menu* page, select SET NEW ACCESS CODE.
- Enter the new access code by selecting + (right side buttons) and - (left side buttons).
- When the desired code is in the squares, select SET AS NEW ACCESS CODE to save the new code. Make sure to record the new access code in a safe place for future reference, possibly in the space provided at the bottom of this page.

**Note:** To exit the *New Access Code* page at any time without changing the access code, select KEEP OLD ACCESS CODE.

**Note:** When the user unlocks access to the VDC from the *Viseo Setup Menu* (by pressing Unlock Areas on the *Viseo Setup Menu*), all non-hidden areas in the system become programmable. The user then has access to program all of the non-hidden areas until the access timeout has expired or LOCK AREAS on the *Viseo Setup Menu* page is pressed. At this time, the areas return to their normal settings.



**Figure 21: New Access Code Screen**

### New Access Code:

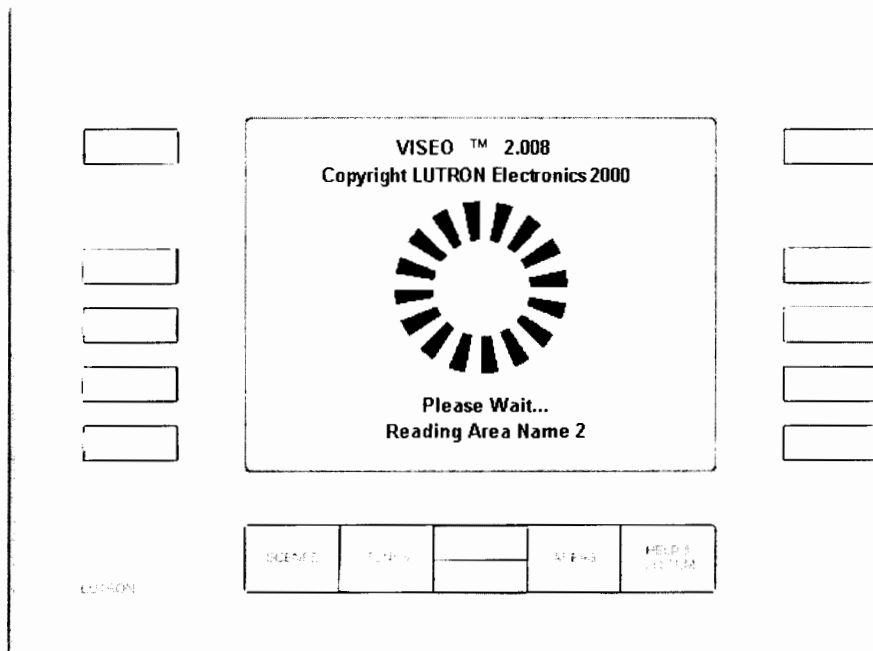
\_\_\_\_\_



## 7. Read G5000/G6000 Data

Selecting this option will download the area, scene, and zone names from the G5000/G6000 processor database into the VDC. This may take a few minutes, depending on the size of the database. This function also occurs automatically when the system is powered up.

**Note:** Pressing the HELP & SYSTEM button will stop the download and display the *Viseo Setup Menu* page. Lutron does **NOT** recommend stopping the download since the VDC will not have all the database information necessary to operate properly. To restart the download, select READ G6000 DATA on the *Viseo Setup Menu* page.



**Figure 22: Download Screen**



## 8. Unlock/Lock Areas

Pressing the bottom right button on the *Viseo Setup Menu* switches the unit between "Areas Unlocked" mode and "Areas Locked" mode. When this button displays UNLOCK AREAS, the VDC is in "Areas Locked" mode.

### "Areas Locked" Mode:


- a. Each area behaves as it is configured in the AREA SETUP mode from the *Viseo Setup Menu* (page 19).
- b. An access code is required to reenter the *Viseo Setup Menu*.

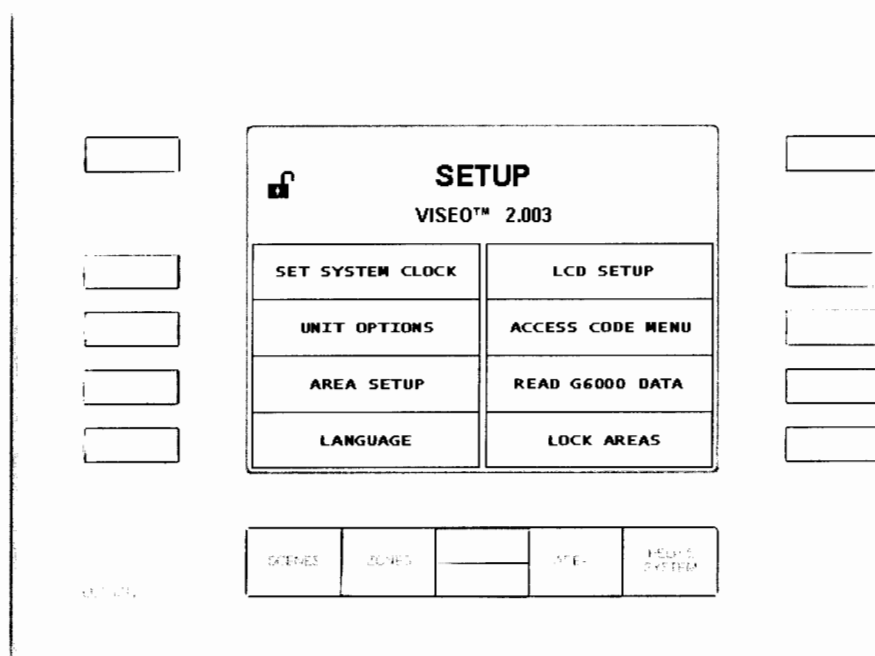
After selecting UNLOCK AREAS, the button will display LOCK AREAS, and the VDC will be in the "Areas Unlocked" mode.

### "Areas Unlocked" Mode:

- a. All non-hidden areas are **temporarily** set to programmable.
- b. No access code is required to reenter the *Viseo Setup Menu*.
- c. Able to turn On and Off the timeclocks in all non-hidden areas.

**Note:** Hidden areas cannot be programmed unless the user first enters the *Area Setup* page and changes the area's setting from HIDDEN (see pg. 20).

An "unlocked" symbol (  ) will appear on the screen while the unit is in the "Areas Unlocked" mode. Access to the VDC will remain "unlocked" until the user selects LOCK AREAS from the *Viseo Setup Menu* or until the access code timeout expires (see pg. 23-24). Then, all areas resume their original settings, and the access code will once again need to be entered to access the *Viseo Setup Menu*.



**Figure 23: Viseo Setup Menu in "Areas Unlocked" Mode**



# Troubleshooting Guide

**Note:** The letters **VDC** stand for **V**ideo **D**isplay **C**ontrol.

## Troubleshooting Guide

Symptoms	Possible Causes and Remedies
Screen is blank and the backlight is not On.	<ul style="list-style-type: none"> <li>■ Is the VDC powered? Check for 12-35V<sub>DC</sub> from terminals 2 to 1 on the Wallstation link.</li> <li>■ Reset power to the VDC (or G5000/G6000 processor) and immediately press the top left button. This will restore the unit to the default contrast and backlight intensity.</li> <li>■ There may be too many Controls (Wallstations/VDCs) on the Wallstation Link. It may be necessary to add a MUX-Repeater (MUX-RPTR). See <b>Appendix E</b> for more information.</li> </ul>
Backlight is On, but the LCD screen is blank.	<ul style="list-style-type: none"> <li>■ Contrast is too low or too high. Reset power to the VDC (or G5000/G6000 processor) and immediately press the top left button. This will restore the unit to the default contrast and backlight intensity.</li> <li>■ Check the voltage between terminals 2 &amp; 1 on the Wallstation Link. If the voltage is below 12V<sub>DC</sub>, there may be too many Controls (Wallstations/VDCs) on the Wallstation Link. It may be necessary to add a MUX-Repeater (MUX-RPTR). See <b>Appendix E</b> for more information.</li> </ul>
Screen is not blank, but the backlight is very dim or not On.	<ul style="list-style-type: none"> <li>■ The VDC backlight may have timed-out. Press any button to restore the backlight.</li> <li>■ Backlight intensity is too low. Go to the <i>Viseo Setup Menu</i> and select LCD SETUP. Select BACKLIGHT INTENSITY and press the Raise button until the backlight is bright.</li> <li>■ Reset power to the VDC (or G5000/G6000 processor) and immediately press the top left button. This will restore the unit to the default contrast and backlight intensity.</li> </ul>
The VDC is waiting for download, but there is no response. Screen is displaying "Please Wait... For G6000 Communication to Begin," and unit is not downloading the data from the processor.	<ul style="list-style-type: none"> <li>■ Has the VDC been included in the database? See <b>Appendix B</b>.</li> <li>■ Is the VDC addressed correctly?</li> <li>■ Is there another control addressed the same as the VDC?</li> <li>■ Check wiring - are MUX and <u>MUX</u> connected to the correct terminals on the back of the VDC? Check that the wires to terminals 3 (white) and 4 (purple) at the back are connected to terminals 3 and 4 (3 to 3, 4 to 4) at the G5000/G6000 processor.</li> <li>■ Does this system have an older G5000/G6000 processor? (Is this job a retrofit?) If so, the processor needs new operating code and the I/O card must be the current revision. See <b>Appendix D</b>.</li> </ul>



## Troubleshooting Guide

### Troubleshooting Guide (continued)

Symptoms	Possible Causes and Remedies
The VDC keeps resetting without anyone touching the control.	<ul style="list-style-type: none"><li>■ Check the wiring - are there any bad connections?</li><li>■ Is there another Control addressed the same as the VDC?</li><li>■ Make sure that there is a link termination at both ends of the Wallstation Link.</li><li>■ Is the appropriate operating code loaded into the G5000/G6000 processor?</li></ul>
The screen has locked up.	<ul style="list-style-type: none"><li>■ Make sure that there is a link termination at both ends of the Wallstation Link.</li><li>■ Is the appropriate operating code loaded into the G5000/G6000 processor?</li><li>■ Reset power to the G5000/G6000 processor.</li><li>■ Check to see if the VDC is disabled in the G5000/G6000 Operate software. The VDC should be enabled at all times.</li></ul>
The end of an area, scene, or zone name is cut off on the VDC's screen.	<ul style="list-style-type: none"><li>■ The name is too long. Open <i>G5000/G6000 Setup</i> (on the PC) and change the name so that it is shorter. Try entering the name in lower case rather than all capitals because this takes up less space. Download the database into the G5000/G6000 processor.</li></ul>



---

# Appendix A: Setting Up the *Viseo* Display Control (VDC)

## Setting the Address and Loading the Database Information into the VDC

If the VDC is addressed correctly when it is powered up and connected to the Wallstation link, the unit will begin downloading the database information. If the VDC is displaying "Please Wait... For G6000 Communication to Begin" and does not begin to download the data, please complete the following steps.

1. Press HELP & SYSTEM.
2. Select VISEO SETUP MENU (lowest button on right side).
3. If needed, enter the access code "1000" (factory preset) by selecting + (right side buttons) and - (left side buttons).
4. Select UNIT OPTIONS.
5. Select LINK ADDRESS.
6. Press the Raise and Lower buttons to select the address of the VDC in the database (see Appendix B: Including the VDC in the G5000/G6000 Database).
7. Select VISEO SETUP MENU.
8. Select READ G6000 DATA (same selection for *GRAFIK 5000* systems). The VDC will display "Please Wait... Reading Data". Do not press any buttons until the data is done loading.

## Setting a New Access Code for the VDC

1. Press HELP & SYSTEM.
2. Select VISEO SETUP MENU.
3. If needed, enter the access code "1000" (factory preset) by selecting + and -.
4. Select ACCESS CODE MENU.
5. Select SET NEW ACCESS CODE .
6. Enter the new access code by selecting + and -.
7. Select SET AS NEW ACCESS CODE (this will cancel "1000" as the access code).

## Setting the Default Area and Hidden Areas

1. Press HELP & SYSTEM.
2. Select VISEO SETUP MENU.
3. If needed, enter the access code (from step 6 above) by selecting + and -.
4. Select UNIT OPTIONS.
5. Select DEFAULT AREA.
6. Press the Raise and Lower buttons to select an area as the default area (the screen displays to this area's *Scenes* page after the security access timeout has expired). For more information, please see pg. 18.
7. Select VISEO SETUP MENU.
8. Select AREA SETUP.
9. Select an area to change the settings on. Use the Previous Page (top left) and Next Page (top right) buttons to navigate to other pages of areas.
10. Press the Raise and Lower buttons to change the entry to Programmable, Change Scenes, Monitor Only, or Hidden. See *Area Setup* (see pg. 20). Note that the default area **cannot** be hidden.
11. Repeat steps 9 and 10 for all areas.



## Appendices A, B, & C

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### Appendix A: Setting Up the *Viseo* Display Control (VDC) (continued)

#### Setting the Contrast

1. Press HELP & SYSTEM.
2. Select VISEO SETUP MENU.
3. If needed, enter the access code by selecting + and -.
4. Select LCD SETUP.
5. Select LCD CONTRAST.
6. Use the Raise and Lower buttons to set the contrast of the screen at the optimum level.

### Appendix B: Including the VDC in the G5000/G6000 Database

The VDC is included in the *GRAFIK 5000/GRAFIK 6000* database as an OMX-RS232 control. When the VDC is connected to the Wallstation link, the processor automatically detects it as a VDC. Follow this procedure using the *GRAFIK 5000/GRAFIK 6000* Operate Software on a PC to add a VDC to the database.

1. Start G5000/G6000 Operate Software and open your database.
2. Press CTRL + ALT + HOME at the same time to bring up the *System Wallstations* Menu.
3. Select the next available Wallstation from the column on the right.
4. Click on the single arrow button pointing to the left ( < ).
5. Click on DONE.
6. Click on the STANDARD AREAS icon to open the Standard Areas Overview.
7. Click on DEFINE WALLSTATION CONTROL.
8. Under *Wallstation Being Displayed*, scroll until the new Wallstation is being displayed.
9. Click on the text box under *Enter New Wallstation Name*.
10. Type in the new name and press ENTER.
11. Click on DONE.
12. Save the database.

### Appendix C: Saving Programming Changes Made at the VDC to the PC Database

1. Make the appropriate scene programming changes at the VDC using either Online or Offline programming (see pg. 11). Exit programming mode.
2. Make sure that the PC is plugged into the G5000/G6000 processor using the PJ62-ADPT-1 adapter.
3. Open the G5000/G6000 Operate Software.
4. Select *Monitor/Operate > Scene Values > Online Programming* (selecting Offline Programming will also work).
5. A warning message will appear that reads, "Scene Values In The *GRAFIK 5000/GRAFIK 6000* Have Been Modified Since The Last Data File Transfer. The Values Which Will Be Displayed On Screen Are Those Stored In the *GRAFIK 5000/GRAFIK 6000*."
6. Click on OK.
7. If changes were made at the VDC to the first area in the system, another warning message will appear that reads, "This Area Contains Scenes Which Have Been Modified Since The Last Data File Transfer. Modified Scenes Are Indicated By A '#' In The Name Prefix." (continued on next page)





### Appendix C (continued)

8. Click on OK, if necessary.
9. Click on DONE.
10. Another message will appear that reads, "WARNING! There Are Scenes In The System Which Have Been Modified In The *GRAFIK 5000/GRAFIK 6000*. This Means The Current Data File May Not Match The Date In The *GRAFIK 5000/GRAFIK 6000*. You Should Save Or Discard The Modified *GRAFIK 5000/GRAFIK 6000* Scene Data Before Proceeding."
11. Click on SAVE ALL MODIFIED SCENE DATA. The scene programming changes made at the VDC have now been saved in the database on the PC.

### Appendix D: Installing a VDC with Existing *GRAFIK 5000/GRAFIK 6000* Systems

For any *GRAFIK 5000/GRAFIK 6000* retro-fit jobs that include VDCs, two issues need to be addressed for the controls to operate correctly:

1. The operating code needs to be o2\_210.mot or a later rev.
2. The I/O cards on the processor need to be rev. 6 or later.

#### Downloading the New G6000 Operating Code

1. Make sure that the laptop is connected to the G5000/G6000 processor with the PJ62-ADPT-1.
2. Using Windows Explorer, copy the new operating code (o2\_210.mot) into the G5000/G6000 directory.
3. Click on START > RUN...
4. For *GRAFIK 5000* Systems type: c:\g5000\download o2\_210.mot  
For *GRAFIK 6000* Systems type: c:\g6000\download o2\_210.mot
5. Reset power to the G5000/G6000 processor. File should begin downloading from the laptop to the processor.

#### Checking the I/O Card

1. Make sure that the laptop is connected to the G5000/G6000 processor with the PJ62-ADPT-1.
2. Open the *GRAFIK 5000/GRAFIK 6000* Operate software.
3. Press CTRL + ALT + HOME at the same time to add the Diagnostics menu to the menu bar at the top of the screen.
4. Select DIAGNOSTICS > LINK DETAILS.
5. Click on the **A** button (in the top left corner of the form).
6. Check the line that reads "I/O Card Code Rev: O2\_I02-6". The last digits of this line should be 2-6 or higher. If the code rev is O2\_I02-5, a new I/O card will need to be installed in the G5000/G6000 processor. If the G5000/G6000 processor has more than 3 Wallstation links, more than one I/O card is necessary.

#### Replacing the I/O Card

1. Turn Off all power to the G5000/G6000 processor panel.
2. Once you have the new I/O cards, remove the front of the G5000/G6000 processor panel and the enclosure around the actual processor board. Use appropriate safety and anti-static precautions when installing the new I/O card.
3. The I/O card is the only removable card on the processor board. Remove this card and insert the new card into the slot. Repeat this for all I/O cards.
4. Switch the power to the G5000/G6000 panel back **On**.



## Appendix E

### Appendix E: VDC Wallstation Link Requirements

**Note:** The VDC draws more current than a standard Wallstation.

G5000/G6000 Wallstation Link Controls:

	# Wallstations/VDCs	# Power Units
<b>Wallstation Link Max</b>	32	32 - 128*
<b>Standard Wallstation</b>	1	1
<b>Viseo Wallstation</b>	1	4

**Note:** Adding a MUX-Repeater (MUX-RPTR) increases the # of power units by 32.

\* Each VDC requires 4 power units with a maximum of 32 Wallstations (4 x 32 = 128).

Use the following equations to determine the number of controls that can be on one Wallstation Link. The numbers must satisfy both equations.

**Controls (Wallstations/VDCs):**

$$(\# \text{ of VDCs}) + (\# \text{ of other Wallstations}) \leq 32$$

**Power Units:**

$$(4 \times \{\# \text{ of VDCs}\}) + (\# \text{ of other Wallstations}) \leq (32 \times \{\# \text{ of MUX-RPTRs}\} + 1)$$

For example, on a Wallstation Link with no MUX-RPTR, the possible number of controls is:

# of VDCs	# of other Wallstations
0	32
1	28
2	24
3	20
4	16
5	12
6	8
7	4
8	0

Internet: [www.lutron.com](http://www.lutron.com)  
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**WORLD HEADQUARTERS**  
Lutron Electronics Co. Inc.,  
TOLL FREE: (800) 523-9466  
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Fax: (610) 282-1243;  
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International ++44-(0)207-702-0657  
Fax: (171) 480-6899;  
International ++44-(0)207-480-6899

**GERMANY**  
Lutron Electronics GmbH  
Tel: (309) 710-4590;  
International ++49-30-97-10-4590  
Fax: (309) 710-4591;  
International ++49-30-97-10-4591

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International ++852-2104-7733  
Fax: 2104-7633;  
International ++852-2104-7633

**SINGAPORE**  
Lutron GL (Singapore)  
Tel: ++65-220-4666  
Fax: ++65-220-4333

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Lutron will, at its option, repair or replace any Viseo Display Control that is defective in materials or manufacture within one year after original purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

***This warranty is in lieu of all other express warranties, and the implied warranty of merchantability is limited to one year from purchase. This warranty does not cover the cost of installation, removal or reinstallation, or damage resulting from misuse, abuse, or improper or incorrect repair, or damage from improper wiring or installation. This warranty does not cover incidental or consequential damages. Lutron's liability on any claim for damages arising out of or in connection with the manufacture, sale, installation, delivery, or use of the unit shall never exceed the purchase price of the unit.***

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