UF55/UF55w Projector User’s Guide

Part of the SMART Board™ 600i3 Interactive Whiteboard System
Registration Benefits

If you register your SMART product, we’ll notify you of new features and software upgrades.

Register online at www.smarttech.com/registration.

Keep the following information available, in case you need to contact Technical Support:

Serial Number __________________________________________

Date of Purchase ________________________________________

FCC Warning
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer’s instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Precautions

Follow all warnings, precautions and maintenance as recommended in this user’s guide.

⚠️ Warning: Don’t look into the projector’s lens when the lamp is on. The bright light may damage your eyes.

⚠️ Warning: To reduce the risk of fire or electric shock, don’t expose this projector to rain or moisture.

⚠️ Warning: Don’t open or disassemble the projector as this may cause electric shock.

⚠️ Warning: Take the projector down off the Boom before replacing the lamp.

⚠️ Warning: Before replacing the lamp, allow the projector to cool down and then turn it off. Disconnect the projector from the power outlet, and follow all the lamp replacement instructions.

⚠️ Warning: This projector detects its own remaining lamp life. Replace the lamp when lamp life warning messages appear.

⚠️ Warning: When you switch the projector off, ensure that the cooling cycle is complete before disconnecting the power. Allow 90 seconds for the projector to cool down.

⚠️ Warning: Cooling of the lamp during the ignition phase should be avoided, because this could lead to ignition failures. After a successful starting attempt keep the lamp burning for at least 15 minutes to keep lamp life.

⚠️ Warning: When the lamp is approaching to the end of its life, the message “Lamp is approaching the end of its useful life in full power operation” appears on the screen. Contact your local reseller or service center to change the lamp as soon as possible.
Usage Notice

Do

• Turn off the product before cleaning it.
• Use a soft cloth moistened with a mild detergent to clean the display housing.
• Disconnect the power plug from the AC outlet if the product isn’t being used for a long period of time.
• Allow 15 minutes before restarting the lamp. This will prolong lamp life.

Don’t

• Block the ventilation slots and openings on the unit.
• Use abrasive cleaners, waxes or solvents to clean the unit.
• Use under the following conditions:
  - In extremely hot, cold or humid environments.
    ▶ Sea level to 6000 feet
      Extremely hot: > 35°C
      Extremely cold: < 5°C
    ▶ 6000 feet above
      Extremely hot: > 30°C
      Extremely cold: < 5°C
    ▶ Extremely humid: > 70% R.H. (Relative Humidity)
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance that generates a strong magnetic field.
  - In direct sunlight.
Product Features

This product is a single chip DLP® projector. Outstanding features include:

- DLP Technology
- UF55:
  - True XGA 0.55" 1024 × 768 resolution
  - Aspect ratio: 4:3
  - Short throw ratio: 0.6
- UF55w:
  - True WXGA 0.65" 1280 × 800 resolution
  - Aspect ratio: 16:10
  - Short throw ratio: 0.51
- 2000 ANSI Lumens (typical)
- Computer compatibility:
  - Apple® Macintosh®, iMac®, and VESA® Standards: UXGA, SXGA+, SXGA, WXGA, XGA, SVGA, VGA
- Video compatibility:
  - NTSC, NTSC4.43
  - PAL/PAL-M/PAL-N/SECAM
  - SDTV compatible (480i/p, 576i/p)
  - HDTV compatible (720p, 1080i)
- Remote manager via network
- Remote manager via RS-232
Projector Package Overview

This projector comes with all the items shown below. Check to make sure your package is complete. Contact your dealer immediately if anything is missing.

- Projector
- Remote Control
- User’s Guide
Introduction

Product Overview

Main Unit

1. Lamp cover
2. Focus
3. Projection Lens
4. IR Receiver
5. Input/Output (IO) cover
6. Diagnostic Indicator LED
7. Power Indicator LED
Connection Ports

1. Audio-L Connector (for S-Video Connector)
2. Audio-R Connector (for S-Video Connector)
3. Audio-L Connector (for Composite Video Connector)
4. Audio-R Connector (for Composite Video Connector)
5. Audio-2 Input Connector (for VGA2-In Connector)
6. Audio-1 Input Connector (for VGA1-In Connector)
7. Audio-Out Connector
8. USB Connector (for service)
9. Power Socket
10. RS-232 Connector
11. Networking Connector RJ45
12. VGA-Out Connector (Monitor Loop-Through Output)
13. VGA1-In Connector
   (PC Analog Signal/Component Video Input)
14. VGA2-In Connector
   (PC Analog Signal/Component Video Input)
15. Video Input Connector
16. S-Video Input Connector
### Remote Control

Use the remote control to control these functions:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Input</td>
<td>Select input source.</td>
</tr>
<tr>
<td>2.</td>
<td>Menu</td>
<td>Display menus.</td>
</tr>
<tr>
<td>3.</td>
<td>Hide</td>
<td>Press to hide or display the image.</td>
</tr>
<tr>
<td>4.</td>
<td>Mode</td>
<td>Select a display mode: Bright Classroom, Dark Classroom, sRGB or User.</td>
</tr>
<tr>
<td>5.</td>
<td>Mute</td>
<td>Turn off the sound temporarily.</td>
</tr>
<tr>
<td>6.</td>
<td>Power</td>
<td>Turn on the power or enter Idle Mode.</td>
</tr>
<tr>
<td>7.</td>
<td>Enter</td>
<td>Accept the selected mode.</td>
</tr>
<tr>
<td>8.</td>
<td>Menu selections and adjustments.</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Set the projector ID number.</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>VOL.</td>
<td>Adjust the volume.</td>
</tr>
</tbody>
</table>
To change the remote control's battery

When you use the remote control for the first time, there is a plastic sheet between the battery and its contact. Remove the sheet before use.

Procedure

1. Remove the battery holder by holding down the side release firmly and pulling out the battery holder. 🔄
2. Insert a CR2025 coin cell battery. 🔄
   Be sure to align the plus and minus ends of the battery properly.
3. Replace the battery holder. 🔄
Connecting the Projector

Opening and Closing the Input and Output Cover

Procedure
1. Pull the cable cover forward 1 and leftward 2 to remove the cable cover from the slot. 3
2. Connect the power cord and the cable that you want to connect to the projector.
3. Collect all cables in the cable management slot. 4
4. Clip the Input / Output IO cover rightward to the projector. 5
5. Fit the Input / Output IO cover with the rear cover backward tightly. 6
Turning On the Projector and Putting It into Idle Mode

Turning On the Projector

1. Ensure that the power cord and video signal cable are securely connected. The Power LED is solid Amber.
2. Turn on the lamp by pressing “)” on the remote control. The Power LED turns green.
3. The startup screen displays in approximately 10 seconds.

Putting the Projector into Idle Mode

1. Turn on your source. Select Input on the remote control to select an input source (VGA-1, VGA-2, Composite or S-Video). The projector detects the source you select and displays the image.

   • If you connect multiple sources at the same time, press Input on the remote control to switch between inputs.

2. Press “)” on the remote control to turn off the projector lamp. A message appears on the interactive whiteboard.

   Press Power Button to Turn off Projector.

2. Press “)” again to confirm your selection. If you don’t press “)” again, the message disappears after 10 seconds.

⚠️ Caution! Don’t turn on the projector immediately after entering Idle Mode.
Adjusting the Projected Image

Adjusting the Projector’s Focus

To focus the image, rotate the Focus Ring until the image is clear.
On-Screen Display Menus

The projector has multilingual On-Screen Display (OSD) menus that allow you to make image adjustments and change a variety of settings.

Using the OSD Menus

1. To open the OSD menu, press **Menu** on the remote control.
2. When the OSD displays, use the **▲▼** buttons to select an item in the main menu. Select an item and press the **▼** button to enter a submenu.
3. Use the **▲▼** buttons to select the desired item in the submenu and adjust the settings using the **▲▼** button.
4. Select the next item that you want to adjust in the submenu and adjust it as described above.

   When each item is adjusted, the projector saves the new setting.
5. Press the **▲** in the first item of each submenu to return to the main menu.
6. To exit the OSD menu, press **Menu** again. The OSD menu closes.
User Controls

Image Adjustment

Display Mode
There are four factory presets optimized for various types of images:

- Bright Classroom: This mode is recommended for projecting in a bright classroom.
- Dark Classroom: This mode is recommended for projecting in a dark classroom.
- sRGB: This mode provides standardized accurate color.
- User: This mode allows you to apply your own settings.

Brightness
To adjust the brightness of the image:

- Press ↓ on the remote control to darken image.
- Press ↑ on the remote control to lighten the image.

Contrast
The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

- Press ↓ on the remote control to decrease the contrast.
- Press ↑ on the remote control to increase the contrast.
User Controls

Image Adjustment

**Frequency**
Change the display data frequency to match the frequency of your computer’s graphic card. If a flickering vertical bar appears on your screen, use this function to make an adjustment.

**Tracking**
Synchronize the signal timing of the display with your computer’s graphics card. If the image appears to be unstable or flickers, use this function to correct it.

**H-Position**
- Press ▼ on the remote control to move the image left.
- Press ► on the remote control to move the image right.

**V-Position**
- Press ▼ on the remote control to move the image down.
- Press ► on the remote control to move the image up.

---

Frequency, Tracking, H-Position and V-Position functions are only supported under Analog VGA (RGB) signal.
User Controls

Image Adjustment

Saturation
To adjust a video image from black and white to fully saturated color:

- Press down on the remote control to decrease the amount of saturation in the image.
- Press up on the remote control to increase the amount of saturation in the image.

Sharpness
To adjust the sharpness of the image:

- Press down on the remote control to decrease the sharpness.
- Press up on the remote control to increase the sharpness.

Tint
To adjust the color balance of red and green:

- Press down on the remote control to increase the amount of green in the image.
- Press up on the remote control to increase the amount of red in the image.

Note: Saturation, Sharpness and Tint functions are available only when the video source is connected.
Image Adjustment

White Peaking

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors in picture. The range is from “0” to “10”. If you prefer a more enhanced brightness, select a higher setting. For a smoother, more natural image, adjust toward the lower setting.

Degamma

Allows you to adjust the color performance of the display.

Color

Adjust the Red, Green, Blue, Cyan, Magenta and Yellow colors from the factory default settings for advanced adjustment of the individual colors.
User Controls

**Audio Control**

**Volume**
- Press ◀ on the remote control to decrease the volume.
- Press ▶ on the remote control to increase the volume.

**Mute**
- Select **On** to mute the sound.
- Select **Off** to turn off mute.

**Disable Volume Control**
- Select **On** to disable the volume adjustment.
- Select **Off** to enable the volume adjustment.

**Closed Captioning**
- Select **On** to turn on closed captions.
- Select **Off** to turn off the captioning feature.

**Closed Captioning Language**
Choose the closed captioning language. This feature is only supported in CC1 or CC2 mode.

CC1 language: American English.
CC2 language (depending on the TV channel of the user): Spanish, French, Portuguese, German, Danish.
User Controls

Default Settings

Auto Signal Detect
Auto Signal Detect enables the sequential searching of input connectors for a signal.

- **On** scans the inputs sequentially until the first input signal is found.
- **Off** keeps the signal detection in one input connector.

Lamp Reminder
Select this option to show or to hide the warning message when the “change lamp” message displays. The message appears 100 hours before the recommended lamp replacement.

Lamp Mode
To adjust the brightness of the image:

- Select **Standard** to brighten the image.
- Select **Economy** to darken the image.

Auto Power Off (minutes)
Set the countdown timer interval. The countdown timer starts when there is no signal being sent to the projector. The projector enters Idle Mode when the countdown finishes.

If user wishes to re-start the projector, please power on the projector again.
**User Controls**

### Default Settings

#### Zoom
- Press ‹ on the remote control to digitally magnify a default area of image in the center of the screen.
- Press › on the remote control to zoom out of the image.

#### Projector ID
- Press ‹ or › on the remote control to set the projector ID number. The range of numbers is from 01 to 99.

#### Keystone
- Press ‹ or › on the remote control to adjust image distortion vertically and make a squarer image.

#### Aspect Ratio
- Select one of the following aspect ratios to define how the image appears:
  - Fill Screen: The input source scales to fit the full size of projection area.
  - Match Input: The original input source’s aspect ratio is used.
  - 16:9: Use this format for 16:9 input sources, such as HDTV and DVDs enhanced for widescreen TV.
**User Controls**

### Default Settings

#### Startup Screen

Use this function to select your desired startup screen. If you change this setting, when you exit the OSD menu, the new setting takes effect the next time you open the OSD open.

- **SMART**: The default startup screen.
- **User**: Uses the saved picture from the “Capture User Startup Screen” function.

#### Capture User Startup Screen

Press left on the remote control to capture a picture of the display screen.

#### Preview Startup Screen

Press left on the remote control to preview the user startup screen on the display screen.
User Controls

**Default Settings**

**Set to Default**
Select “Yes” to return the display parameters on all menus to the factory default settings.
User Controls

Default Settings

Status
Display the network connection status.

DHCP
Turn the network DHCP on or off.
- **On** assigns an IP address to the projector from the DHCP server automatically.
- **Off** allows you to assign an IP address manually.

Password Reminder
Press ✉ on the remote control to e-mail the yourself password you set through Web Management.

IP Address
Display the IP address.

Subnet Mask
Display the subnet mask number.
Network Settings

Gateway
Display the default gateway of the network connected to the projector.

DNS
Display the DNS number.

MAC Address
Display the physical address.

Group Name
Display the group name.

Projector Name
Display the projector name.

Location
Display the location information.

Contact
Display the contact information.

For configuring the network setting, please refer to Web Management on page 27.
User Controls

Multi Languages

Language

This setting lets you choose the language of the OSD. Press ▼ to enter the submenu, and then press ▲ or ▼ or ◄ or ► on the remote control to select your preferred language. Press ◄ on the remote control to apply your selection.
**User Controls**

**Projector Information**

All functions in **Projector Information** display the status of the projector only.

**Lamp Hours**

Display the operating hours since the last lamp timer reset.

**Input**

Display the input connector type.

**Resolution**

Display the current display resolution.

**Firmware Version**

Display the projector firmware version.

**MPU Version**

Display the projector MPU version.

**Network Version**

Display the projector Network version.

**Model Number**

Display the model number.

**Serial Number**

Display the Serial number.
Web Management

This menu allows you to access Web Management and manage the projector from a remote location.

Accessing Web Management

- If the projector is connected to a network, the IP address appears on the OSD screen.

Example

Start the Internet Explorer® or Netscape Navigator™ Internet browser and enter the IP Address into the address field. The Web page displays as below.

SMART UF55 Projector Settings

Main Menu

- Home
- Control Panel
- Network Settings
- E-mail Alert
- Password Settings

Setting

Home

Projector Information
- Group Name:
- Projector Name:
- Location:
- Contact:
- Status: Idle
- Lamp Hours: 0 Hours
- Firmware Version: 0.0.8.8
- Input: None
- Resolution (RGB): None
- IP Address: 192.168.5.140
- MAC Address: 00-50-41-70-02-EC
- Admin Password: Disable
- Display Hours: 0 Hours
- Failure Log: Normal
- High Speed Fan: Normal
- Projector Mode: Cleaning
- Serial Number: 08000000000000

Language
- English
- Español
- Français
- Português (Brasil)
- 日本語
- 简体中文
- 繁體中文
- 한국어
- Deutsch
- Italiano
- Nederlands
- Dansk
- Suomi
- Español
- Norsk
- Polski
- Ελληνικά
- Svenska
- Português (Portugal)
- Русский
- Submit

Press Submit to apply your selection.
# User Controls

## Home Page

The **Home Page** displays basic information about the projector and allows you to set the OSD language.

### SMART UF55 Projector Settings

<table>
<thead>
<tr>
<th><strong>Home</strong></th>
<th><strong>Language</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Control Panel</strong></td>
<td>🇪🇸 Spanish</td>
</tr>
<tr>
<td><strong>Network Settings</strong></td>
<td>🇫🇷 Français</td>
</tr>
<tr>
<td><strong>E-mail Alert</strong></td>
<td>🇧🇷 Portuguese (Brazil)</td>
</tr>
<tr>
<td><strong>Password Settings</strong></td>
<td>🇯🇵 Japanese</td>
</tr>
</tbody>
</table>

### Projector Information

- **Group Name:**
- **Projector Name:**
- **Location:**
- **Contact:**
- **Status:**  
- **Lamp Hours:** 0 Hours
- **Firmware Version:** 0.0.5.5
- **Input:** None
- **Resolution (RGB):** None
- **IP Address:** 192.168.1.140
- **MAC Address:** 00-20-41-70-02-EC
- **Admin Password:** Disable
- **Display Hours:** 0 Hours
- **Failure Log:** Normal
- **High Speed Fan:** Normal
- **Projector Mode:** Ceiling
- **Serial Number:** 00000000000000

### Language

Choose the language for the Web Management interface. Press **Submit** to apply your selection.

### Projector Information

Display the projector information.
User Controls

Control Panel

The **Control Panel** allows you to manage the projector status using a Web browser.

### SMART UF55 Projector Settings

![Control Panel](image)

### Control Panel

**Power**
- Select **Power ON** to turn on the projector.
- Select **Power OFF** to put the projector into Idle Mode.

**Restore All Projector Defaults**
- Select **Submit** to return the factory default settings.
- Select **Refresh** to refresh the current settings.

**Volume**
Adjust volume of the projector.

**Mute**
- Select **On** to mute the sound.
- Select **Off** to turn off mute.

**Volume Control**
- Select **On** to allow volume adjustment.
- Select **Off** to disable the volume adjustment.
User Controls

Control Panel

SMART UF55 Projector Settings

Control Panel

Power
- Power: ___________
- Power ON: ________
- Power OFF: ________
- Restore All Projector Defaults: Submit

Audio
- Volume (0-20): ________
- Mute: On/Off
- Volume Control: On/Off

Closed Captioning
- Closed Captioning: On/Off
- Language: CC1/CC2

Closed Captioning

- Select **On** to turn on closed captions.
- Select **Off** to turn off closed captions.

Language

Choose the closed captioning language. This feature is only supported in CC1 or CC2 mode.

- CC1 language: American English.
- CC2 language (depending on the TV channel of the user): Spanish, French, Portuguese, German, Danish.
User Controls

Control Panel

Display Mode
Select a display mode: Bright Classroom, Dark Classroom, sRGB or User.

Brightness
Adjust the brightness of the image.

Contrast
The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

Frequency
Change the display data frequency to match the frequency of your computer’s graphic card. If a flickering vertical bar appears on your screen, use this function to make an adjustment.

Tracking
Synchronize the signal timing of the display with your computer’s graphics card. If the image appears to be unstable or flickers, use this function to correct it.
Sharpness

Adjust the sharpness of the image.

White Peaking

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors in picture. The range is from “0” to “10”. If you prefer a more enhanced brightness, select a higher setting. For a smoother, more natural image, adjust toward the lower setting.

Degamma

Allows you to adjust the color performance of the display.

Color

Adjust the Red, Green, Blue, Cyan, Magenta and Yellow colors from the factory default settings for advanced adjustment of the individual colors.
# User Controls

## Control Panel

### SMART UF55 Projector Settings

<table>
<thead>
<tr>
<th>Control Panel</th>
<th>Default Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Auto Signal Detect</strong></td>
<td>On: On, Off: Off</td>
</tr>
<tr>
<td><strong>Lamp Reminder</strong></td>
<td>On: On, Off: Off</td>
</tr>
<tr>
<td><strong>Lamp Mode</strong></td>
<td>Standard: On, Economy: Off</td>
</tr>
<tr>
<td><strong>Auto Power Off (15)</strong></td>
<td>0 (0 – 120)</td>
</tr>
<tr>
<td><strong>Zoom (0)</strong></td>
<td>0 (0 – 20)</td>
</tr>
<tr>
<td><strong>Keystone (0)</strong></td>
<td>0 (-40 – 40)</td>
</tr>
<tr>
<td><strong>H-Position (RGB input): (50)</strong></td>
<td>0 (0 – 120)</td>
</tr>
<tr>
<td><strong>V-Position (RGB Input): (0)</strong></td>
<td>0 (-5 – 5)</td>
</tr>
<tr>
<td><strong>Aspect Ratio</strong></td>
<td>--- Select: ---</td>
</tr>
<tr>
<td><strong>Startup Screen</strong></td>
<td>--- Select: ---</td>
</tr>
</tbody>
</table>

### Auto Signal Detect

Auto Signal Detect enables the sequential searching of input connectors for a signal.

- **On** scans the inputs sequentially until the first input signal is found.
- **Off** keeps the signal detection in one input connector.

### Lamp Reminder

Select this option to show or to hide the warning message when the “change lamp” message displays. The message appears 100 hours before the recommended lamp replacement.

### Lamp Mode

To adjust the brightness of the image:

- Select **Standard** to lighten the image.
- Select **Economy** to darkens the image.

### Auto Power Off

Set the countdown timer interval. The countdown timer starts when there is no signal being sent to the projector. The projector enters Idle Mode when the countdown finishes.

If user wishes to re-start the projector, please power on the projector again.

### Zoom

Adjust the image on the projection screen.
User Controls

Control Panel

SMART UF55 Projector Settings

Control Panel

Default Settings
- Auto Signal Detect: On/Off
- Lamp Reminder: On/Off
- Lamp Mode: Standard/Economy

Auto Power Off: (15)
- 0 (0 ~ 150)

Zoom:(0)
- 0 (0 ~ 25)

Keystone:(9)
- 0 (~45 ~ 40)

H-Position (RGB input): (56)
- 0 (0 ~ 136)

V-Position (RGB Input): (60)
- 0 (~5 ~ 5)

Aspect Ratio:
- Fill Screen: The input source scales to fit the full size of the projection area.
- Match Input: The original input source’s aspect ratio is used.
- 16:9: Use this format for 16:9 input sources, such as HDTV and DVDs enhanced for widescreen TV.

Startup Screen:
- SMART: The default startup screen.
- User: Uses the saved picture from the “Capture User Startup Screen” function.

Keystone
- Adjust the image distortion vertically and make a squarer image.

H-Position (RGB input)
- Adjust the image to move left or right.

V-Position (RGB input)
- Adjust the image to move up or down.

Aspect Ratio
- Select one of the following aspect ratios to define how the image appears:
  - Fill Screen: The input source scales to fit the full size of the projection area.
  - Match Input: The original input source’s aspect ratio is used.
  - 16:9: Use this format for 16:9 input sources, such as HDTV and DVDs enhanced for widescreen TV.

Startup Screen
- Use this function to select your desired startup screen. If you change this setting, when you exit the OSD menu, the new setting takes effect the next time you open the OSD open.
  - SMART: The default startup screen.
  - User: Uses the saved picture from the “Capture User Startup Screen” function.
User Controls

Control Panel

SMART UF55 Projector Settings

Control Panel

Service
- High Speed Fan: Select HIGH to rotate the projector’s fan at high speed if the projector’s temperature is high or if the location is above 6000 ft. altitude.
- Select NORMAL to use the normal rotational speed.

Projection Mode
- Select the projection mode (Front, Ceiling, Rear or Rear Ceiling).

Source
- Select the input source (VGA-1, VGA-2, Composite or S-Video).

High Speed Fan
Adjust the rotational speed of the projector’s fan.
- Select HIGH to rotate the projector’s fan at high speed if the projector’s temperature is high or if the location is above 6000 ft. altitude.
- Select NORMAL to use the normal rotational speed.

Projection Mode
Select the projection mode (Front, Ceiling, Rear or Rear Ceiling).

Source
Select the input source (VGA-1, VGA-2, Composite or S-Video).
The **Network Settings** allow you to enable or disable DHCP and set network related addresses and names.

### SMART UF55 Projector Settings

#### Network Settings

**DHCP**
- **On** assigns an IP address to the projector from the DHCP server automatically.
- **Off** allows you to assign an IP address manually.

**IP Address**
Set an IP address.

**Subnet Mask**
Set the subnet mask number.

**Gateway**
Set the gateway number.

**DNS**
Set the DNS number.
User Controls

Network Settings

SMART UF55 Projector Settings

- **Home**
- **Control Panel**
- **Network Settings**
- **E-mail Alert**
- **Password Settings**

**Network Settings**

- **DHCP**: On / Off
  - IP Address: 192.168.6.140
  - Subnet Mask: 255.255.255.0
  - Gateway: 192.168.6.254
  - DNS: 192.168.1.167
  - Group Name:
  - Projector Name:
  - Location:
  - Contact:

**Group Name**
Allows you to define the group name of the projector.
(Maximum characters: 12)

**Projector Name**
Allows you to define the projector name.
(Maximum characters: 12)

**Location**
Allows you to define the location of the projector.
(Maximum characters: 16)

**Contact**
Allows you to define the contact name of the projector.
(Maximum characters: 16)
Network Settings

SNMP Enable
- Select **On** to enable SNMP MIB function.
- Select **Off** to disable SNMP MIB function.

Read Only Community
The **Read Only Community** string is like a password. It is sent along with each SNMP Get-Request and allows access to device. The default **Read Only Community** string is “public”.

Read-Write Community
The **Read-Write Community** string is like a password. It is sent along with each SNMP Set-Request and allows access to device. The default **Read-Write Community** string is “public”.

Trap Destination Address
Allows you to define the **Trap Destination Address** of the projector.
E-mail Alert

The E-mail Alert allows you to enter your e-mail alert address and adjust related settings.

**E-mail Alert**

- Select **Enable** to turn on the E-mail Alert function.
- Select **Disable** to turn off the E-mail Alert function.

**To**

Define the e-mail address of the E-mail Alert recipient.

**Cc**

Define the e-mail address of the E-mail Alert “copy to” recipient.

**From**

Define the e-mail address of the user who sends the E-mail Alert.

**Outgoing SMTP server**

Define the outgoing SMTP server.

**Username**

Define the SMTP server user name.

**Password**

Define the SMTP server password.
### Alert Condition

The projector provides three alert conditions (Lamp warning, Low lamp life and Temperature warning).

- Select the conditions you want to apply, and then press **Submit** to apply the selection. The projector sends an alert e-mail (SMART Alert) to your e-mail address.

- Press the **E-mail Alert Test** to confirm your e-mail address. The projector sends a test e-mail (SMART Alert- Test Mail) to your e-mail address.
**User Controls**

**Password Settings**

This projector provides a security function that allows the administrator to manage usage for the projector.

The **Password Settings** allow you to enable the Administrator Password function.

<table>
<thead>
<tr>
<th>SMART UF55 Projector Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Home</strong></td>
</tr>
</tbody>
</table>
| **Control Panel** | **Password:**
| **Network Settings** | **Enable** | **Disable** | Submit |
| **E-mail Alert** | **New Password:**
| **Password Settings** | **Confirm Password:** |

**Password**

- **Select Enable** to enter a password for access to Web Management.

When the password function is enabled, the administrator password will be required to access Web Management.

**Welcome to Web Management**

<table>
<thead>
<tr>
<th><strong>Username:</strong></th>
<th>Administrator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Password:</strong></td>
<td>Enter Password</td>
</tr>
</tbody>
</table>

**Projector Information**

<table>
<thead>
<tr>
<th><strong>Name:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IP Address:</strong></td>
<td>192.168.5.340</td>
</tr>
</tbody>
</table>

- **Select Disable** to be able to turn on the projector without a password.

**Note**

First Time:
The Password is 4 digits, default value is “1234”.

If you can’t remember your password, please refer to **Password Reminder** on page 23.
Troubleshooting

*If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local reseller or service center.*

Image Problems

- **No image appears on-screen**
  - Ensure that all the cables and power connections are correctly and securely connected as described in the “Installation” section on page 10.
  - Ensure that all of the pins on the connectors are not bent or broken.
  - Make sure if the projection lamp has been securely installed.
  - Make sure the projector is turned on.
  - Ensure that the Hide Display feature on the remote is disabled.

- **Partial, scrolling or incorrectly displayed image**
  - If you are using a desktop computer:
    - For computers running the Windows® 95, Windows® 98, Windows® 2000, or Windows® XP operating system:
      1. Click **My Computer → Control Panel**, and then double-click **Display**.
      2. Select the **Settings** tab.
      3. Verify that your display resolution setting is lower than or equal to UXGA (1600 × 1200).
    - If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.
      4. Click **Advanced Properties**.
5. Click **Change** on the Monitor tab.
6. Click **Show all devices**, and then select **Standard monitor types** from the SP drop-down list. Select the resolution mode you need from the **Models** drop-down list.
7. Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 × 1200).

- If you are using a laptop computer:

1. Follow the steps above to adjust the resolution of the computer.
2. Press the appropriate buttons listed below for your laptop manufacturer to send signals from laptop to the projector. Example: [Fn]+[F4]

    Acer® ⇒ [Fn]+[F5]    IBM®/Lenovo® ⇒ [Fn]+[F7]
    Asus® ⇒ [Fn]+[F8]    HP®/Compaq® ⇒ [Fn]+[F4]
    Dell® ⇒ [Fn]+[F8]    NEC® ⇒ [Fn]+[F3]
    Gateway® ⇒ [Fn]+[F4]   Toshiba® ⇒ [Fn]+[F5]

    Mac Apple®:
    System Preference ⇒ Display ⇒ Arrangement ⇒ Mirror display

- If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

? The screen of the laptop or PowerBook® computer isn’t displaying your presentation

- If you are using a laptop
  Some laptop PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer’s manual for detailed information.

? Image is unstable or flickering

- Adjust the **Tracking** setting in the OSD to correct this issue. See page 15 for more information.
- Change the tracking setting on your computer.
Appendices

Image has vertical flickering bar

- Adjust Frequency setting in the OSD to correct this issue. See page 15 for more information.
- Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

Image is out of focus

- Adjust the Focus Ring on the projector lens.

The image is stretched when displaying 16:9 DVD title

When you play an anamorphic DVD or a 16:9 DVD, the projector displays the image in 16:9 format.
If you play a 4:3 format DVD title, change the Aspect Ratio to Fill Screen in the projector OSD.
If the image is still stretched, adjust the aspect ratio type.

Image is too small or too large

- Press Menu on the remote control, select Aspect Ratio, and then try the different settings.

Other Problems

The projector freezes when you enter any control

- If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.
## Projector Status Indication

<table>
<thead>
<tr>
<th>Status</th>
<th>Power LED</th>
<th>Diagnostic LED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Green/Amber)</td>
<td>(Red)</td>
</tr>
<tr>
<td>Idle Mode</td>
<td>Solid Amber</td>
<td>Off</td>
</tr>
<tr>
<td>Powering</td>
<td>Flashing Green</td>
<td>Off</td>
</tr>
<tr>
<td>On (Lamp On)</td>
<td>Green</td>
<td>Off</td>
</tr>
<tr>
<td>Cooling</td>
<td>Flashing Amber</td>
<td>Off</td>
</tr>
<tr>
<td>Error (Temperature Exceeded)</td>
<td>Off</td>
<td>Flasing Red</td>
</tr>
<tr>
<td>Error (Fan Failure)*</td>
<td>Off</td>
<td>Solid Red</td>
</tr>
<tr>
<td>Error (Color Wheel Failure)*</td>
<td>Off</td>
<td>Solid Red</td>
</tr>
<tr>
<td>Error (Lamp Failure)</td>
<td>Solid Amber</td>
<td>Flasing Red</td>
</tr>
</tbody>
</table>

* Contact your authorized SMART Reseller to solve the problem.
**Message Reminders**

- **Fan failure**
  - Fan breakdown: One of the fans has failed. The projector will automatically shut down.*

- **Temperature warning**
  - Projector overheated: Air vents might be blocked or the ambient temperature might be over 55°C. The projector will automatically shut down.

- **Lamp warning**

- **Power message**

- **Video mute message**

* Contact your authorized SMART Reseller to solve the problem.
## Compatibility Modes

### VGA Analog

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Mode</th>
<th>Refresh Rate (Hz)</th>
<th>H-Frequency (kHz)</th>
<th>Pixel Clock (MHZ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>720 × 400</td>
<td>720 × 400_85</td>
<td>85.039</td>
<td>37.927</td>
<td>35.5</td>
</tr>
<tr>
<td>640 × 480</td>
<td>VGA_60</td>
<td>59.94</td>
<td>31.469</td>
<td>25.175</td>
</tr>
<tr>
<td>640 × 480</td>
<td>VGA_72</td>
<td>72.809</td>
<td>37.861</td>
<td>31.5</td>
</tr>
<tr>
<td>640 × 480</td>
<td>VGA_75</td>
<td>75</td>
<td>37.5</td>
<td>31.5</td>
</tr>
<tr>
<td>640 × 480</td>
<td>VGA_85</td>
<td>85.008</td>
<td>43.269</td>
<td>36</td>
</tr>
<tr>
<td>800 × 600</td>
<td>SVGA_56</td>
<td>56.25</td>
<td>35.156</td>
<td>36</td>
</tr>
<tr>
<td>800 × 600</td>
<td>SVGA_60</td>
<td>60.317</td>
<td>37.879</td>
<td>40</td>
</tr>
<tr>
<td>800 × 600</td>
<td>SVGA_72</td>
<td>72.188</td>
<td>48.077</td>
<td>50</td>
</tr>
<tr>
<td>800 × 600</td>
<td>SVGA_75</td>
<td>75</td>
<td>46.875</td>
<td>49.5</td>
</tr>
<tr>
<td>800 × 600</td>
<td>SVGA_85</td>
<td>85.061</td>
<td>53.674</td>
<td>56.25</td>
</tr>
<tr>
<td>832 × 624</td>
<td>MAC16&quot;</td>
<td>74.55</td>
<td>49.725</td>
<td>57.283</td>
</tr>
<tr>
<td>1024 × 768</td>
<td>XGA_60</td>
<td>60.004</td>
<td>48.363</td>
<td>65</td>
</tr>
<tr>
<td>1024 × 768</td>
<td>XGA_70</td>
<td>70.069</td>
<td>56.476</td>
<td>75</td>
</tr>
<tr>
<td>1024 × 768</td>
<td>XGA_75</td>
<td>75.029</td>
<td>60.023</td>
<td>78.75</td>
</tr>
<tr>
<td>1024 × 768</td>
<td>XGA_85</td>
<td>84.997</td>
<td>68.667</td>
<td>94.5</td>
</tr>
<tr>
<td>1024 × 768</td>
<td>MAC19&quot;</td>
<td>74.7</td>
<td>60.134</td>
<td>79.857</td>
</tr>
<tr>
<td>1152 × 864</td>
<td>SXGA1_75</td>
<td>75</td>
<td>67.54</td>
<td>108</td>
</tr>
<tr>
<td>1280 × 768</td>
<td>WXGA</td>
<td>59.87</td>
<td>47.776</td>
<td>79.5</td>
</tr>
<tr>
<td>1280 × 800</td>
<td>16 × 10</td>
<td>59.81</td>
<td>49.702</td>
<td>83.5</td>
</tr>
<tr>
<td>1280 × 960</td>
<td>QuadVGA_60</td>
<td>60</td>
<td>60</td>
<td>108</td>
</tr>
<tr>
<td>1280 × 960</td>
<td>QuadVGA_85</td>
<td>85.002</td>
<td>85.938</td>
<td>148.5</td>
</tr>
<tr>
<td>1280 × 1024</td>
<td>SXGA3_60</td>
<td>60.02</td>
<td>63.981</td>
<td>108</td>
</tr>
<tr>
<td>1280 × 1024</td>
<td>SXGA3_75</td>
<td>75.025</td>
<td>79.976</td>
<td>135</td>
</tr>
<tr>
<td>1280 × 1024</td>
<td>SXGA3_85</td>
<td>85.024</td>
<td>91.146</td>
<td>157.5</td>
</tr>
<tr>
<td>1400 × 1050</td>
<td>SXGA+</td>
<td>59.978</td>
<td>65.317</td>
<td>121.75</td>
</tr>
<tr>
<td>1600 × 1200</td>
<td>UXGA_60</td>
<td>60</td>
<td>75</td>
<td>162</td>
</tr>
<tr>
<td>1600 × 1200</td>
<td>UXGA_65</td>
<td>65</td>
<td>81.25</td>
<td>175.5</td>
</tr>
<tr>
<td>1600 × 1200</td>
<td>UXGA_70</td>
<td>70</td>
<td>87.5</td>
<td>189</td>
</tr>
<tr>
<td>1600 × 1200</td>
<td>UXGA_75</td>
<td>75</td>
<td>93.75</td>
<td>202.5</td>
</tr>
<tr>
<td>1600 × 1200</td>
<td>UXGA_85</td>
<td>85</td>
<td>106.25</td>
<td>229.5</td>
</tr>
</tbody>
</table>
## Appendices

### Y/Pb/Pr signals

<table>
<thead>
<tr>
<th>Signal format</th>
<th>fh (kHz)</th>
<th>fv (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>480i (525i) @ 60 Hz</td>
<td>15.73</td>
<td>59.94</td>
</tr>
<tr>
<td>480p (525p) @ 60 Hz</td>
<td>31.47</td>
<td>59.94</td>
</tr>
<tr>
<td>576i (625i) @ 50 Hz</td>
<td>15.63</td>
<td>50</td>
</tr>
<tr>
<td>576p (625p) @ 50 Hz</td>
<td>31.25</td>
<td>50</td>
</tr>
<tr>
<td>720p (750p) @ 60 Hz</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>720p (750p) @ 50 Hz</td>
<td>37.5</td>
<td>50</td>
</tr>
<tr>
<td>1080i (1125i) @ 60 Hz</td>
<td>33.75</td>
<td>60</td>
</tr>
<tr>
<td>1080i (1125i) @ 50 Hz</td>
<td>28.13</td>
<td>50</td>
</tr>
<tr>
<td>1080p (1125p) @ 60 Hz</td>
<td>67.5</td>
<td>60</td>
</tr>
<tr>
<td>1080p (1125p) @ 50 Hz</td>
<td>56.25</td>
<td>50</td>
</tr>
</tbody>
</table>

### S-Video and Composite Video signals

<table>
<thead>
<tr>
<th>Video mode</th>
<th>fh (kHz)</th>
<th>fv (Hz)</th>
<th>fsc (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTSC</td>
<td>15.73</td>
<td>60</td>
<td>3.58</td>
</tr>
<tr>
<td>PAL</td>
<td>15.63</td>
<td>50</td>
<td>4.43</td>
</tr>
<tr>
<td>SECAM</td>
<td>15.63</td>
<td>50</td>
<td>4.25 or 4.41</td>
</tr>
<tr>
<td>PAL-M</td>
<td>15.73</td>
<td>60</td>
<td>3.58</td>
</tr>
<tr>
<td>PAL-N</td>
<td>15.63</td>
<td>50</td>
<td>3.58</td>
</tr>
<tr>
<td>PAL-60</td>
<td>15.73</td>
<td>60</td>
<td>4.43</td>
</tr>
<tr>
<td>NTSC4.43</td>
<td>15.73</td>
<td>60</td>
<td>4.43</td>
</tr>
</tbody>
</table>
## RS-232 Connector Pin Assignments

<table>
<thead>
<tr>
<th>Pin no.</th>
<th>Spec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>TXD</td>
</tr>
<tr>
<td>3</td>
<td>RXD</td>
</tr>
<tr>
<td>4</td>
<td>N/A</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td>N/A</td>
</tr>
<tr>
<td>7</td>
<td>N/A</td>
</tr>
<tr>
<td>8</td>
<td>N/A</td>
</tr>
<tr>
<td>9</td>
<td>+9VDC</td>
</tr>
</tbody>
</table>
Lens cleaning instruction

1. Avoid touching or scratching the lens.
2. Do not use organic solvents, such as alcohol or ether, to clean the lens.
3. Use clean compressed air to remove dust and debris from the lens.
4. If wiping the lens becomes unavoidable, use protective gloves to dip a soft woven cloth in anti-static solvent and gently wipe from the center to the outer part. Use an anti-static solvent such as Hyperclean® EE-6310 and a cloth such as Purestat® PW2004 or similar.
Replacing the lamp

When the lamp life is nearing the end of use, you will receive a warning message.

When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.

⚠️ Caution: Hot! Let unit cool for 30 minutes before removing lamp module cover. Do not obstruct lens. High pressure lamp may shatter if improperly handled. Disconnect power before changing lamp. Replace only with SMART Technologies approved lamp module.

🔍 Lamps contain mercury and must be recycled or disposed of according to local, state or federal laws.

⚠️ Warning: Be careful of broken glass when replacing the lamp. Wear eye protection and gloves when replacing lamp.

⚠️ Warning: Lamp compartment may be hot! Allow it to cool down before changing the lamp.

⚠️ Warning: To reduce the risk of personal injury, don’t drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.
Lamp Replacement Procedure

1. Switch off the power to the projector by pressing “Û” on the remote control.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Pull the lamp cover carefully.
5. Remove the lamp cover.
6. Use a screwdriver to unscrew the 2 screws from the lamp module.
7. Pull up the lamp handle carefully.
8. Remove the lamp module.

To replace the lamp module, follow previous steps in reverse order.
Waste Electrical and Electronic Equipment Regulations

Waste Electrical and Electronic Equipment regulations apply to all electrical and electronic equipment sold within the European Union.

When you dispose of any electrical or electronic equipment, including SMART products, we strongly encourage you to contact your local WEEE recycling agency for recycling and disposal advice.

Your SMART product required the extraction and use of natural resources for its production. It may contain hazardous substances. By disposing of electrical and electronic equipment appropriately, you lower the impact of these substances upon health and the environment and reduce the pressure on natural resources. Recycling agencies can reuse or recycle most of the materials from your product.

Please think about how you intend to dispose of any product that has a WEEE symbol or accompanying WEEE guidelines.

If you need more information on the collection, reuse and recycling of electrical and electronic equipment, please contact your local WEEE recycling agency.

Alternatively, contact your local reseller or SMART Technologies for information on the environmental performance of our products.

Restriction of Certain Hazardous Substances (RoHS) Directives

SMART Technologies supports global efforts to ensure that electronic equipment is manufactured, sold and disposed of in a safe and environmentally friendly manner.

This product meets the requirements of the European Union's Restriction of Certain Hazardous Substances (RoHS) Directive 2002/95/EC, as well as the People's Republic of China's Control of Pollution Caused by Electronic Information Products (China RoHS).

Subsequently, this product also complies with other, less stringent directives that have arisen in various geographical areas, and that incorporate the European Union's RoHS directive as a basis.

For more information, refer to your local regulations or visit www.smarttech.com.
Customer Support

Online Support
Visit www.smarttech.com/support to view and download user’s guides, “how-to” and troubleshooting articles, software and more.

Training
Visit www.smarttech.com/trainingcenter for training materials and information about our training services.

Contacting SMART Technical Support
SMART Technical Support welcomes your call. However, if you experience difficulty with your SMART product, you may want to contact your authorized SMART reseller first. Your SMART reseller may be able to resolve the issue without delay.

All SMART products include online, telephone, fax and e-mail support:

**Online:** www.smarttech.com/contactsupport

**Telephone:** +1.403.228.5940 or
Toll Free 1.866.518.6791 (U.S./Canada)
(Monday to Friday, 5 a.m. – 6 p.m. Mountain Time)

**Fax:** +1.403.806.1256

**E-mail:** support@smarttech.com

General Inquiries

**Address:** SMART Technologies
1207 – 11 Ave SW, Suite 300
Calgary, AB T3C 0M5

CANADA

**Switchboard:** +1.403.245.0333 or
Toll Free 1.888.42.SMART (U.S./Canada)

**Fax:** +1.403.228.2500

**E-mail:** info@smarttech.com

Warranty
Product warranty is governed by the terms and conditions of SMART’s “Limited Equipment Warranty” that shipped with the SMART product at the time of purchase.

Registration
To help us serve you, register online at www.smarttech.com/registration.
SMART Technologies
1207 – 11 Avenue SW, Suite 300
Calgary, AB  T3C 0M5
CANADA

www.smarttech.com/support
www.smarttech.com/contactsupport
Support +1.403.228.5940
Toll Free 1.866.518.6791 (U.S./Canada)