Samsung PM55F-BC

Samsung PM55F-BC 55-inch Full HD Touchscreen Display User Manual

Comprehensive instructions for setup, operation, and maintenance of your Samsung PM55F-BC display.

1. INTRODUCTION

The Samsung PM55F-BC is a 55-inch Full HD LED-Backlit LCD Flat Panel Display with integrated touchscreen functionality, designed for commercial environments. This manual provides essential information for the safe and efficient use of your display.

Key Features:

- Powerful, convenient management through an all-in-one composition.
- Comfortable, multi-point capacitive touch communication.
- Brilliant, glare-free visual quality.
- Reliable, dust-resistant design for continuous content delivery.
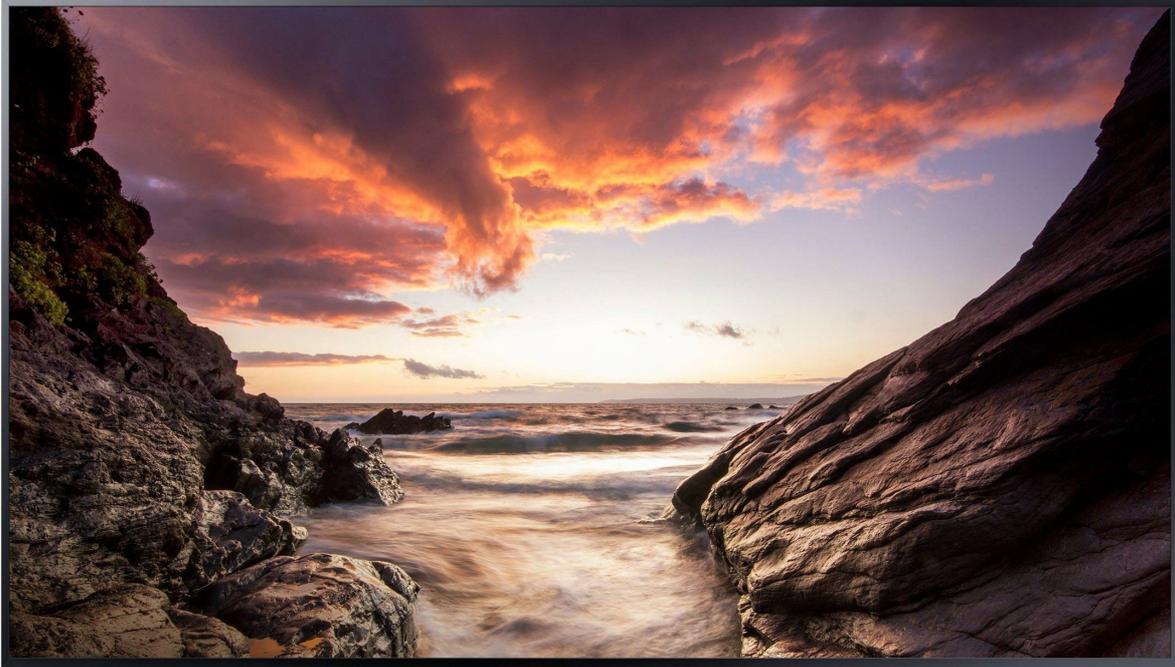- Convenient display control through a centralized receiver.

Figure 1.1: Front view of the Samsung PM55F-BC 55-inch Full HD Touchscreen Display.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read all safety instructions carefully before using the display. Keep this manual for future reference.

- **Power Source:** Connect the display only to a grounded power outlet with the correct voltage.
- **Ventilation:** Ensure adequate ventilation around the display. Do not block ventilation openings.
- **Placement:** Place the display on a stable, level surface or mount it securely to a wall using appropriate hardware.
- **Moisture:** Do not expose the display to rain, moisture, or excessive humidity.
- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth. Avoid liquid cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation.

- Samsung PM55F-BC Display Unit
- Power Cord
- Remote Control (with batteries)
- User Manual (this document)
- Warranty Card
- Cables (e.g., HDMI, USB - may vary by region)

4. SETUP

4.1 Unpacking

Carefully remove the display from its packaging. It is recommended to have at least two people for handling due to its size and weight. Retain the packaging materials for future transport or storage.

4.2 Mounting

The PM55F-BC display supports wall mounting. Ensure you use a VESA-compatible wall mount kit (sold separately) that can support the weight and dimensions of the 55-inch display. Follow the instructions provided with your wall mount kit for secure installation. Ensure the mounting surface is strong enough to hold the display.

Figure 4.1: Side profile of the Samsung PM55F-BC display, illustrating its slim form factor suitable for various installations.

4.3 Connecting Cables

Before connecting any cables, ensure the display is powered off and unplugged from the electrical outlet.

1. **Power Connection:** Connect the power cord to the display's power input and then to a grounded electrical outlet.
2. **Video Input:** Connect your video source (e.g., PC, media player) to one of the HDMI ports on the display using an HDMI cable. The display has 2 HDMI ports.
3. **USB Connection:** For touchscreen functionality and other USB devices, connect a USB cable from your source device to the display's USB ports. The display has 2 USB 3.0 ports.
4. **Other Connections:** Utilize other available ports such as component outputs as needed for your specific setup.

Figure 4.2: Rear view of the Samsung PM55F-BC display, highlighting the location of power, HDMI, USB, and other connectivity ports.

5. OPERATING THE DISPLAY

5.1 Powering On/Off

- **To Power On:** Plug in the power cord and press the power button on the remote control or the display's control panel.
- **To Power Off:** Press the power button again. For complete power disconnection, unplug the power cord from the outlet.

5.2 Basic Controls and On-Screen Display (OSD)

Use the remote control to navigate the On-Screen Display (OSD) menu. The OSD allows you to adjust various settings such as brightness, contrast, input source, and advanced display options.

- Press the **Menu** button to open the OSD.
- Use the **Arrow** buttons to navigate through menu options.
- Press the **Enter** or **OK** button to select an option or confirm a setting.
- Press the **Exit** or **Menu** button again to close the OSD.

5.3 Touchscreen Functionality

The PM55F-BC features multi-point capacitive touch technology. Once connected via USB to a compatible source device, the display will function as a large interactive touch screen.

- Ensure the USB cable is securely connected between the display and your computer/media player.
- The operating system of your connected device should automatically recognize the touchscreen.
- Use gestures similar to those on a tablet or smartphone for navigation, zooming, and interaction.

Figure 5.1: The Samsung PM55F-BC display showcasing an interactive retail application, demonstrating its touchscreen capabilities.

6. MAINTENANCE

6.1 Cleaning the Screen

To clean the screen, first power off and unplug the display. Gently wipe the screen with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a specialized screen cleaner designed for LCD/LED displays. Do not spray liquid directly onto the screen.

6.2 General Care

- Avoid placing heavy objects on the display.
- Keep the display away from direct sunlight and heat sources.
- Ensure proper ventilation to prevent overheating.
- Regularly check cable connections for security.

7. TROUBLESHOOTING COMMON ISSUES

If you encounter problems with your display, refer to the table below for possible solutions.

Problem	Possible Cause	Solution
No power	Power cord disconnected; Power outlet faulty	Check power cord connection; Try a different outlet
No image on screen	Incorrect input source; Video cable loose/faulty; Source device off	Select correct input source via OSD; Check video cable connections; Ensure source device is on

Problem	Possible Cause	Solution
Touchscreen not responding	USB cable disconnected; Driver issue on source device	Ensure USB cable is connected; Restart source device; Check device manager for touchscreen drivers
Image is distorted or blurry	Incorrect resolution; Faulty video cable	Set source device to 1920x1080 resolution; Try a different HDMI cable

8. PRODUCT SPECIFICATIONS

Below are the technical specifications for the Samsung PM55F-BC display.

Feature	Specification
Brand	Samsung
Model Number	PM55F-BC
Screen Size	55 Inches
Resolution	FHD 1080p (1920 x 1080)
Aspect Ratio	16:9
Display Type	LED lit LCD
Refresh Rate	60 Hz
Contrast Ratio	2000:1
Response Time	8 Milliseconds
Viewing Angle	178 Degrees
Additional Features	Touchscreen (Multi-point capacitive)
Connectivity Technology	HDMI
Total Number of HDMI Ports	2
Total USB 3.0 Ports	2
Mounting Type	Wall Mount
Color	Black

9. WARRANTY INFORMATION

This Samsung PM55F-BC display comes with a **Limited Warranty**. The specific terms and conditions of the warranty are outlined in the warranty card included with your product. Please retain your proof of purchase for warranty claims. For detailed information, refer to the warranty documentation or contact Samsung customer support.

10. CUSTOMER SUPPORT

For technical assistance, service, or further inquiries regarding your Samsung PM55F-BC display, please contact Samsung Customer Support.

You can typically find contact information, including phone numbers and online support resources, on the official Samsung website for your region. Please have your model number (PM55F-BC) and serial number ready when contacting support.

Online Support: Visit Samsung Support