

Operation Menu

Version: 1.0

FCC Statement

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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1. Power on

There are three working modes after power on.

Maintenance: The device is connected using the USB interface to a PC with specific software named NandPDT to perform firmware update, reset to factory operation to adjust/debug its behavior. This mode is activated by pushing the “Mode” button for 10 seconds with the USB plugged in to a computer. Please refer to section 5. Firmware upgrade.

Install: The device is not playing any content but just display its configuration settings on the screen. The device automatically tries to connect to a default open WIFI network named SBMAMA (Ad-Hoc or Managed) and runs a HTTP control panel for configuration over the WLAN. The operator gets to this service by reading the IP address displayed on the device screen and typing the following URL into its browser <http://the.device.ip.address>. This mode is activated by pushing the Mode button for 5 seconds.

The device will try to be managed mode to connect to the WiFi AP named SBMAMA, the name/SSID of WiFi AP can be configured by field of **SSID** on HTTP control panel. If it failed to establish a link with the AP within 30 seconds, then it will switch to ad-hoc mode with SSID SBMAMA. Pressing the Mode button for 1 second will turn the device back to managed mode again.

Operation: The device is configured and plays the content from the server. It uses the network settings from the configuration to connect to the hotel network. It also runs the HTTP control panel to offer configuration over the LAN using the same URL. The operator gets to this service by reading the IP address that is displayed temporarily for 5 seconds on the device screen when the “Mode” button is pressed, the display seconds can be configured by field of **Stand_seconds_at_Install_Mod** on HTTP control panel.

2. Mode button

Pressing 1 second to turn the device to set the WiFi to be managed mode and try to establish a new link with WiFi AP named SBMAMA, the name/SSID of WiFi AP can be configured by field of SSID on HTTP control panel. If it failed to establish a link with the AP within 30 seconds, then it will switch to ad-hoc mode with SSID SBMAMA. Pressing the Mode button for 1 second will turn the device back to managed mode again.

Pressing 5 seconds to turn the device to Install mode, and showing in formations including Networking mode, Mac address, IP address, SSID, Networking status and Feed URL to be display.

Pressing 10 seconds to turn the device to reboot. If the device is connected using the USB interface to a PC with specific software named NandPDT to perform firmware update, reset to factory default. Please refer to section 5. Firmware upgrade.

3. User button

User button will act multifunction and its role is configured by HTTP control panel.
Default to disable.

Disable : the User button will be no function, no response to any touch.

User Off : the photo frame backlight will turned off once the User button was touched, and keep it off as long as hours defined by the value of **UserOff** parameter on HTTP control panel.

Select Feed : the photo frame will switch to Select Feed window and allow users to pick Feed URL that he/she preferred.

Press the user button to move down one row and it will circle back to top once meet the last row. The LED will light to indicate the button be pressed and you have to wait the LED off then press it as you want.

There are total 16 feeds can be selected and users can update the Feed's URL through HTTP Control Panel.

Interaction : pressing the user button will generate a request for interaction according to the current image on the slideshow. It is managed by the context of RSS Feed that supports a special tag to perform interaction request.

```
<sweetbeam:interaction anchor="button"
event="http://192.168.1.123/picture1.jpg" timeout="30">
<media:content url="http://192.168.1.123/feedback.jpg" duration="5"/>
</sweetbeam:interaction>
```

4. HTTP control panel

Open the device HTTP control panel by <http://the.device.ip.address> on browser like Microsoft Internet Explorer.

4.1 System Parameters

FW_Version	A display only data field shows the firmware version on photo frame.
Active_Mode	A display only data field shows the active mode on photo frame. There are <i>install</i> , <i>Operating</i> and <i>Maintenance</i> modes.
Networking_Mode	A display only data field shows the Networking mode on photo frame. There are <i>WiFi Managed</i> , <i>WiFi Ad-Hoc</i> and <i>LAN</i> modes.
MAC_Address	A display only data field shows the MAC address of photo frame.
IP_Address	A display only data field shows the IP address of photo frame.
Status	A display only data field shows the networking status of photo frame. There are <i>Connected</i> and <i>Disconnected</i> status.
Login_ID	A text edit field allows users to manage the login identification of HTTP control panel, maximum 20 characters. Default to the MAC address of photo frame on format of xxxxxxxxxxxx.
Login_Password	A text edit field allows users to manage the login password of HTTP control panel. Default to an empty string.
Light_sensor_level Level 9 - 0	Text edit fields allow users to manage the ambient light sensor detect value in range of 0% to 100%.
LCD_backlight_level Level 9 - 0	Text edit fields allow users to manage the backlight strength in range of 0% to 100%.
On Level 9 - 0	Radio buttons allow users to set the light level to turn on the backlight of photo frame.
Off Level 9 - 0	Radio buttons allow users to set the light level to turn off the backlight of photo frame.

Press **Submit** button to update the parameters to photo frame.

4.2 Networking Parameters

IP_Select	Radio buttons allow users to set IP address on either <i>Auto</i> (DHCP client) or <i>Specific</i> (Fix IP). Default to <i>Auto</i> mode.
IP_Addr	Text edit field allows users to set IP address under <i>Specific</i> IP mode, in format of xxx.xxx.xxx.xxx
Mask	Text edit field allows users to set Mask under <i>Specific</i> IP mode, in format of xxx.xxx.xxx.xxx
Gateway	Text edit field allows users to set Gateway address under <i>Specific</i> IP mode, in format of xxx.xxx.xxx.xxx
DNS1	Text edit field allows users to set first DNS address under <i>Specific</i> IP mode, in format of xxx.xxx.xxx.xxx
DNS2	Text edit field allows users to set second DNS address under <i>Specific</i> IP mode, in format of xxx.xxx.xxx.xxx
LAN_Port	Radio buttons allow users to enable or disable the Ethernet interface. Default to <i>Disable</i> mode.
SSID	Text edit field allows users to manage the SSID of WiFi network. Maximum 20 characters, default to <i>SBMAMA</i> .
Stand_seconds_at_Install_Mode	Text edit field allows users to set the display duration in second for install mode. If the networking status is connected then photo frame will move to operating mode after it.
Authentication	Radio buttons allow users to select the authentication method on WiFi. There are mode <i>NONE</i> , <i>WEP</i> , <i>WPA</i> and <i>WPA2</i> . Default to <i>NONE</i> .
WEP_Key	Text edit field allows users to set the encryption key for WEP mode, maximum 20 characters.
WPA_PSK	Text edit field allows users to set the encryption key for WPA and WPA2 mode, maximum 20 characters.

Encryption	Radio buttons allow users to select the encryption method on WPA and WPA2 mode. There are method <i>TKIP</i> and <i>AES</i> . Default to <i>TKIP</i> .
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Press **Submit** button to update the parameters to photo frame.

4.3 RSS parameters

Sync_Policy	Radio buttons allow users to select the RSS synchronization policy, on either <i>Once</i> or <i>Online</i> .
User_button	Radio buttons allow users to select the function on User Button. There are <i>Disable</i> , <i>User Off</i> , <i>Select Feed</i> , and <i>Interaction</i> modes. Default to <i>Disable</i> .
LED_On	Text edit field allows users to set the LED on seconds after pressing the user button, value in range of 0 to 9999 seconds. LED will not function if user button is under disable mode.
UserOff	Text edit field allows users to set the hours to turn off backlight after pressing user button, value in range of 0 to 9999 hours. This field is used only if the function of User_button be set to <i>User Off</i> .
Default_slide_show_period	Text edit field allows users to set the default slide show period, value in range of 0 to 32767 seconds. This default value is used only if the duration tag is missed on RSS download file.
Default_TTL	Text edit field allows users to set the default TTL, value in range of 0 to 32767 minutes. This default value is used only if the ttl tag is missed on RSS download file.
Feed_Timeout	Text edit field allows users to set the timeout of Feed download in range of 0 to 32767 minutes. Photo frame will show <i>Default_Image</i> if it failed to download the Feed over this timeout value. Default to 0 means ignore the failure of Feed download, not to show <i>Default_Image</i> .
Transition_Effect	Radio buttons allow users to select the transition

	effect between slideshows. There are <i>Random, Top down, Bottom up, Horizontal close, Horizontal open, Random Horizontal lines, Forward brick fill, Random brick fill, Backward brick fill, Whirlpool, Wave, Left to right, Right to left, Vertical close, Vertical open, Random vertical lines, Meet, Fade out and in and Fade in and out</i> effects. Default to <i>Fade in and out</i> .
Current_Feed_URL	A display only data field shows the current Feed URL. The Feed URL can be changed by user button of selected feed mode.
Feed_URL_1 to Feed_URL_16	Text edit field allows users to set 16 Feed URL, maximum 80 characters for each.

Press **Submit** button to update the parameters to photo frame.

4.4 Reset to factory default

Reset to factory default	Tick the check box field and press submit button to reset all the parameters to factory default.
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Press **Submit** button to update the parameters to photo frame.

4.5 Default_Image

Default_Image	This image will be shown if failed to download feed over the Feed_Timeout minutes. Press the Browser button and pick one jpg file, then press the Download button to send it to photo frame.
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5. Specification

Specification		
Item	Description	10.4inch
Display	LCD Type	Digital TFT-LCD
	Support Color	Full-colors
	Resolution	800x600
	Screen Ratio	4:3
Certification & Safety	CE, FCC, RoHS	Compliance
Main Chip	Type	ARM11
Operation System	System	Linux
System Internal Memory	SDRAM	64MB(Byte)
	NAND Flash ROM	1GB
Networking	WiFi	optional(11n/g/b)
	RJ-45 connection	supported
USB 2.0 Port – Host (For F/W upgrade)	Type-A	supported
AC/DC Power Adapter:100~240V		DC 5.3V/2.5A
Light sensor		supported