VISION

BUTKON
MEDIA
PLAYER

VISION - Butkon Media Player

Version List			
Document	**Software (Media Player)**	**Software(MCU)**	**Hardware**
v1.0A - 25.01.2024	v1.3.1-231223	v1.3	v1.0 10/23 - H11PC0449

Software Version History

Date	Version	Description
05.11.2023	v1.0.0 - 231105	First Reveal
20.11.2023	v1.0.2 - 231120	Slider mode added. Scrolling text mode has been added. LeftToRight
30.11.2023	v1.2.15 - 231130	Serial Protocol : **INVT** added. No entry pictogram added in case of fire. Player version, MCU version and Protocol number are shown on the main screen. **Protocol : 1=Parallel, 2=Arkel, 3=Butkon, 4=INVT** Information Messages havebeen updated. Language files, Script files, Energy saving mode structure, General improvements have been made.
23.12.2023	v1.3.1 - 231223	The responsive dynamic design was tailored to accommodate various screen resolutions, with adjustments made to the height and width parameters of animations. Language files have been refreshed, and script files have been updated to reflect these changes. Additionally, overall arrangements and optimizations have been implemented.

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Web Interface Version History

History	Version	Description
05.11.2023	v1.0.0 - 231105	First publication
24.01.2024	v1.1.0 - 240124	Automatic stop adjustment has been added. Necessary additions and updates were made in parallel with the program.

Table of Contents

INTRODUCTION

1.1 - Media Player Introduction

The multimedia player is a specialized creation developed by the Butkon R&D department, designed specifically for use with 7" (800x480 or 1024x600) and 10.1" (1024x600) color TFT displays, as well as HDMI output displays. Beyond its fundamental functions like video playback, image slideshows, and voice announcements, this system boasts numerous innovative and advanced features, further enhancing its capabilities and utility.

1.2 - Media Player Features

Motherboard Specifications	
Processor	64-bit 4-Core A53 1.4GHz
RAM	1G LPDDR4
Screen	G31 MP2 - OpenGL
Memory	8GB EMMC
Energy	12V-24V voltage input
Operating System	Linux
WI-FI	Internal -
USB	1-ch high-speed USB HOST

Software General Features

✓ 800x480 pixels 7" inch color TFT Display
✓ 1024x600 pixels 7" inch color TFT Display
✓ 1024x600 pixels, 10.1" inch color TFT Display
✓ Horizontal and vertical operation
✓ Parallel and Serial (Arkel, Butkon, INVT) connection options
✓ Video playback feature
✓ Image slide feature
✓ Voice announcement feature
✓ Easy and responsive design with Web interface (Computer, Tablet and phone)
✓ Different optional audio files can be transferred via the Web interface or via USB stick.
✓ Color change support for direction arrows, out of service, overload icons, floor nicknames and background (can be done from web interface)
✓ Video elements can be changed by the user (support for mp4, mpeg, avi, wmv video formats)
✓ Image elements can be changed by the user (support for image formats with png, bmp, jpg, and jpeg extensions)
✓ Software updates are available automatically (via Internet), via Web interface and via USB stick.
✓ Turkish, English, Spanish and Russian language options
✓ Time/date update via web interface
✓ Energy saving mode
✓ Informative message feature with bottom scrolling text
✓ Ability to adjust screen brightness
✓ Ability to control video and announcement volume levels separately
✓ Ability to show existing floor information (Parking lot, Ground floor, Restaurant etc...)
✓ Optional floor indicators (7Segment, Dot)
✓ Ability to change logo (via web interface)
✓ System backup and restore capability (via Web interface)
✓ Screen preview feature (via Web interface)

Screen Icons and Descriptions

Volume level icons.

Shows communication information between MCU - Panel.

Shows internet connection

The software displays the elevator fan status, making it visible when active and invisible when inactive. It's important to note that the visibility of the fan status

The software indicates the energy-saving mode, displaying it when active and not displaying it when inactive.
Note : The view here may vary according to the information from the dashboard.

It is the icon to show the number of people. The number of people appears under the icon.

This feature involves an icon that represents the weight capacity of the elevator, with detailed weight information displayed beneath the icon.

INSTALLATION

2.1 - Program Download

Open any web browser and download the file from the address. Extract the downloaded file from the zip.
You can watch the video of the process here.

2.2 - SD Card Formatting

WARNING: **Formatting will erase all information on the SD card. Do not forget to back up your data before formatting.**

Insert an SD card into your computer (**Mini SD Card must be minimum 4GB**). Enter the folder named Panasonic SD Formatter and run the program. Format the SD Card you inserted in your computer.
You can watch the video of the process here.

2.3 - Image Loading on SD Card

Enter the folder named PhoneixCard and run the program. Format the SD Card you inserted in your computer.
You can watch the installation video here.

2.4 - Install on Motherboard

Before beginning the installation process, ensure to disconnect the power supply to the device. Insert the image-loaded mini SD card into the slot on the motherboard. Once this step is completed, re-energize the device. Allow the loading process to take approximately 3 minutes.

Following the installation, disconnect the power supply, remove the SD card from the slot, and re-energize the device. The program will initiate automatically after the installation process is complete..
You can watch the installation video here.

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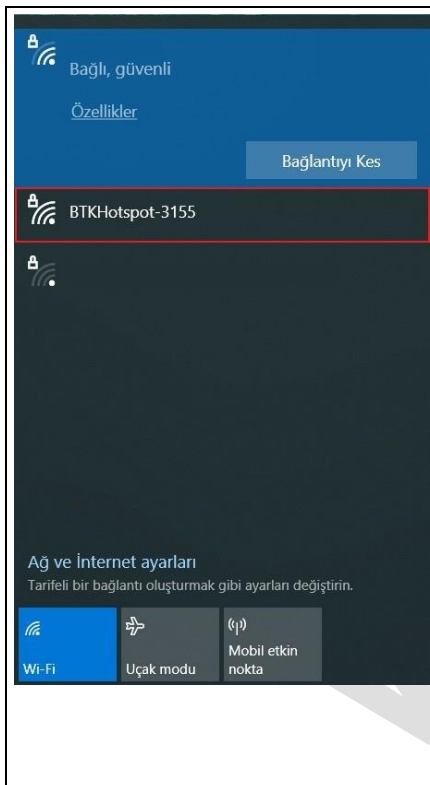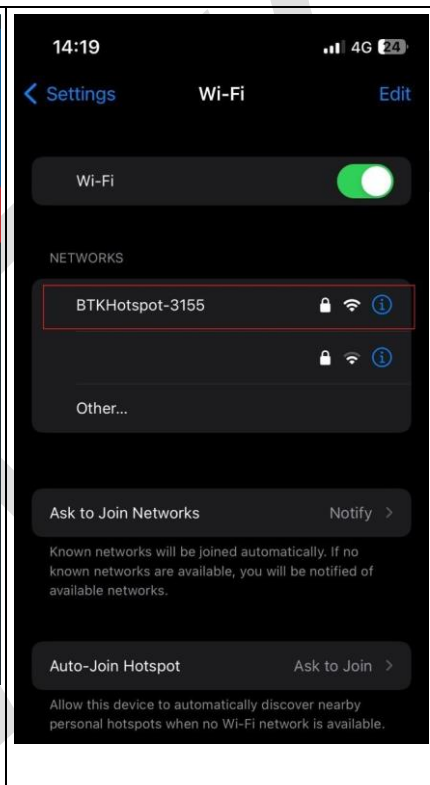# HOTSPOT OPERATIONS

3.1 - Hotspot Activation

To activate the Hotspot on the media player, press and hold the button on the card labeled "boot" for approximately 10 seconds. Once the Hotspot is activated, relevant information such as Hotspot name, password, and system details (disk size, IP address, netmask, etc.) will be displayed on the media player. (Refer to the picture for details on activating the Hotspot and viewing the Quick Menu.)

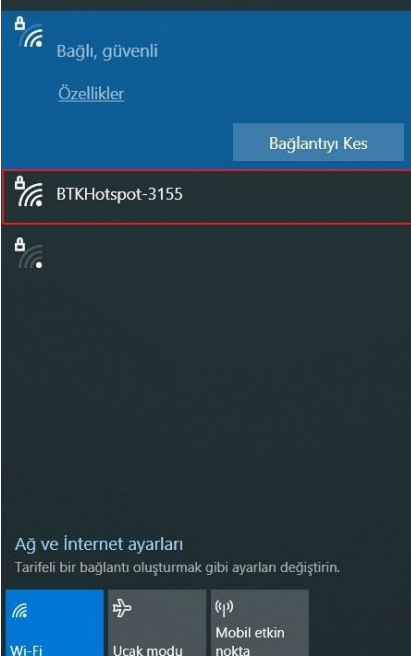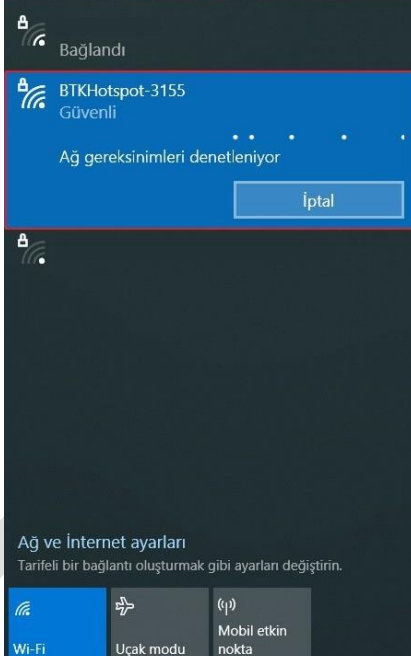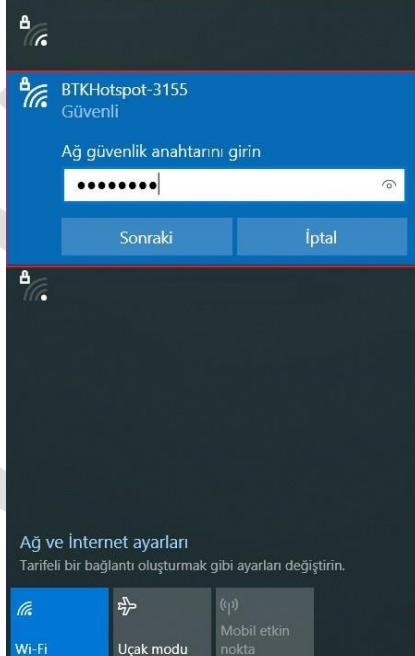| Alan	Value	Description
Hotspot Name	BTK-Hotspot-3155	The number after the hotspot name prefix is randomly generated.
Hotspot Password	g4GmBYrF	The password is randomly generated. Here is a sample password.
Net IP	10.42.0.1	Device IP Address - This IP address will be used for connection.

3.2 - Hotspot Scanning Operations

You can find the hotspot to connect to the activated media player by scanning WI-FI networks from your computer, phone or tablet. (See: Image - Scanning Hotspot)

Windows WI-FI Scan	iPhone WI-FI Scan	Android WI-FI Scan

3.3 - Hotspot Connection Stages

You can find the hotspot by scanning WI-FI networks from your computer, phone or tablet to connect to the activated media player. See Image - Connection Stages

Connect to the network and enter the hotspot password that appears on the screen. The device you connect will receive an automatic IP address within 10-15 seconds.

Scanning	Making Connections	Password Login Process
Connection Stages		

After the connection process is successful, you can access the system's web interface by entering the NET IP Address that appears on the screen in any web browser (Google Chrome, Microsoft Edge, Opera, Firefox, Safari, Brave, etc.).

SYSTEM CONFIGURATIONS

4.1 - Login Operations

After the connection phase is successfully completed, the following page will appear with the NET IP Address entry. (See: Picture - Login Page)
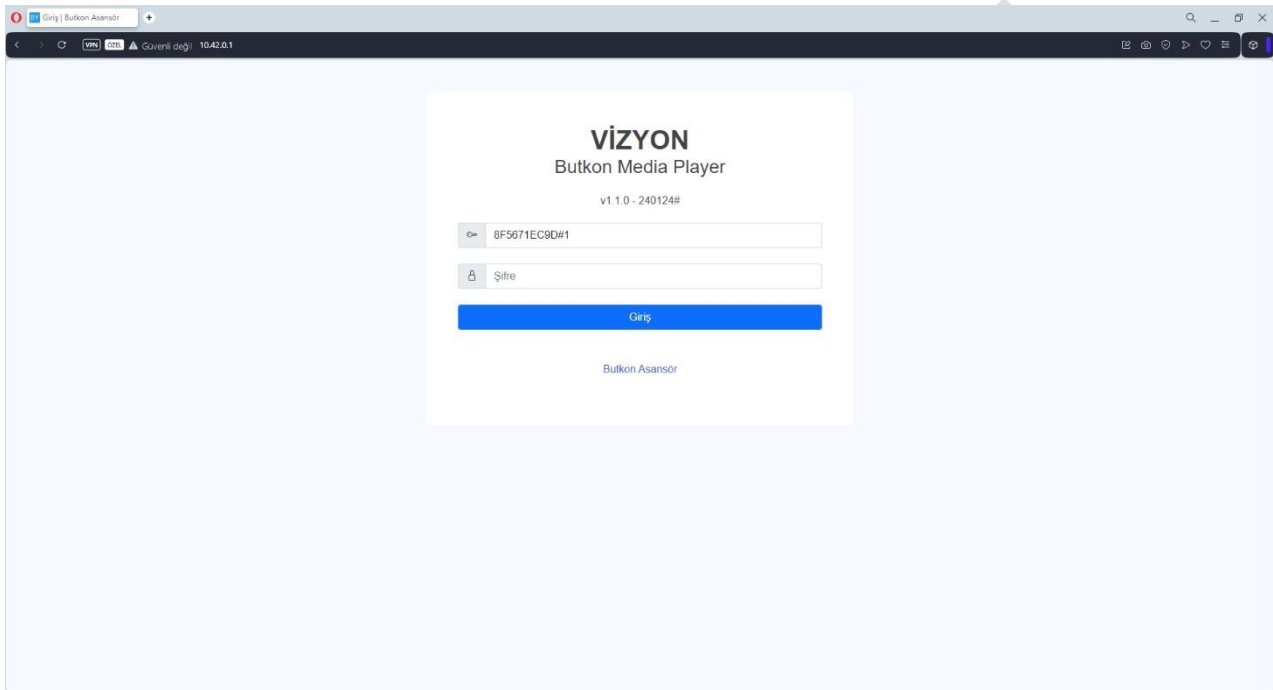
It shows a key value on the screen to be used in the login process on the web interface. A password will be entered for this key value (Example: 8F5671EC9D#1). The key value changes each time the page is called. Use Butkon Technic Mobile Application to get this password.

You can use the links below to download Butkon technique.
Google

Play

AppStore

4.2 - Dashboard

After logging into the system, the dashboard screen appears. The dashboard screen shows system and program information. (See: Picture - Dashboard Screen)

On the Dashboard screen you can see the versions of the program. You can also see device information - operating system, uptime, mac address, ip address, processor and core temperature, disk usage size.

A screen preview and language options menu are available at the top right of the screen. **English**, **Russian** and **Spanish** are available in the language options. The selected language changes the current language structure of the web interface without logging out. (See: Menu structure with language selection)

English	Russian	Spanish
Dashboard	Панель управления	Panel de Control
Date-Time Settings	Настройки Даты и Времени	Configuración de Fecha y Hora
Program Settings	Настройки программы	Configuraciones del Programa
Indicator Settings	Настройки индикатора	Configuraciones del Indicador
Floor Settings	Настройки этажа	Configuraciones del Piso
Video Processes	Процессы видео	Procesos de Video
Slider Picture Processes	Процессы изображения слайдера	Procesos de imágenes deslizantes
Picture Processes ∨	Процессы изображений ∨	Procesos de Imágenes ∨
Sound File Processes	Процессы аудиофайлов	Procesos de Archivos de Sonido
System Processes	Процессы системы	Procesos del Sistema
Update Processes	Процессы Обновления	Procesos de Actualización
Screen Preview	Предварительный просмотр экрана	Vista Previa de la Pantalla
Logout	Выход	Cerrar sesión
English	Russian	Spanish

There are menus on the left side of the screen. You can access the relevant pages by clicking on these menus.

Date-Time Settings : The time update of the system is done here.

Program Settings : This is the part where the general settings of the program are made.

Display Settings : Up arrow, down arrow, pictograms and their audio or video file selection operations are done here.

Scrolling Text Settings : Adjusting the text and audio files of the floor information is done.

Video Operations : Adding, listing and deleting videos are done.

Slider Image Operations : Uploading, listing and operations of the pictures to be made slides are done here.

Image Operations : This menu is divided into 5 sub-menus.

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Background Operations : Background image upload and listing operations of the program are performed.

Up Arrow Operations : Uploading and listing the up arrow images of the program is done.

Down Arrow Operations : Loading and listing the down arrow images of the program is done.

Other images : It is possible to upload and list the pictogram images of the program.

*Audio file Operations :* Loading, listing and deleting audio files are performed. *System operations :* System restart, program settings, backup and backup restore operations are performed.

Update operations : The file for the program update is manually uploaded from here and the installation can be started.

Screen Preview : The screen preview of the media player is shown on this page.
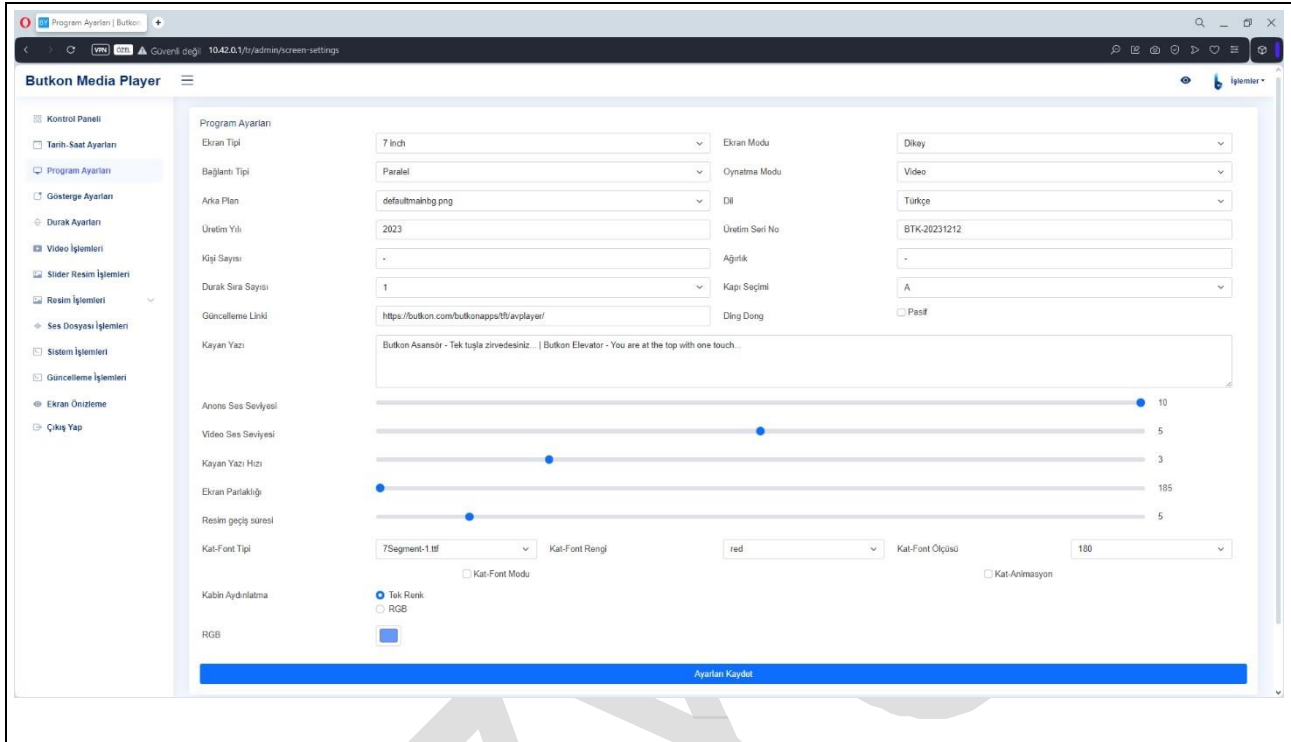
4.3 - Date - Time Settings

System clock update is done from this page. The existing system clock is displayed on the same page. (See: Picture - Date Time Update)
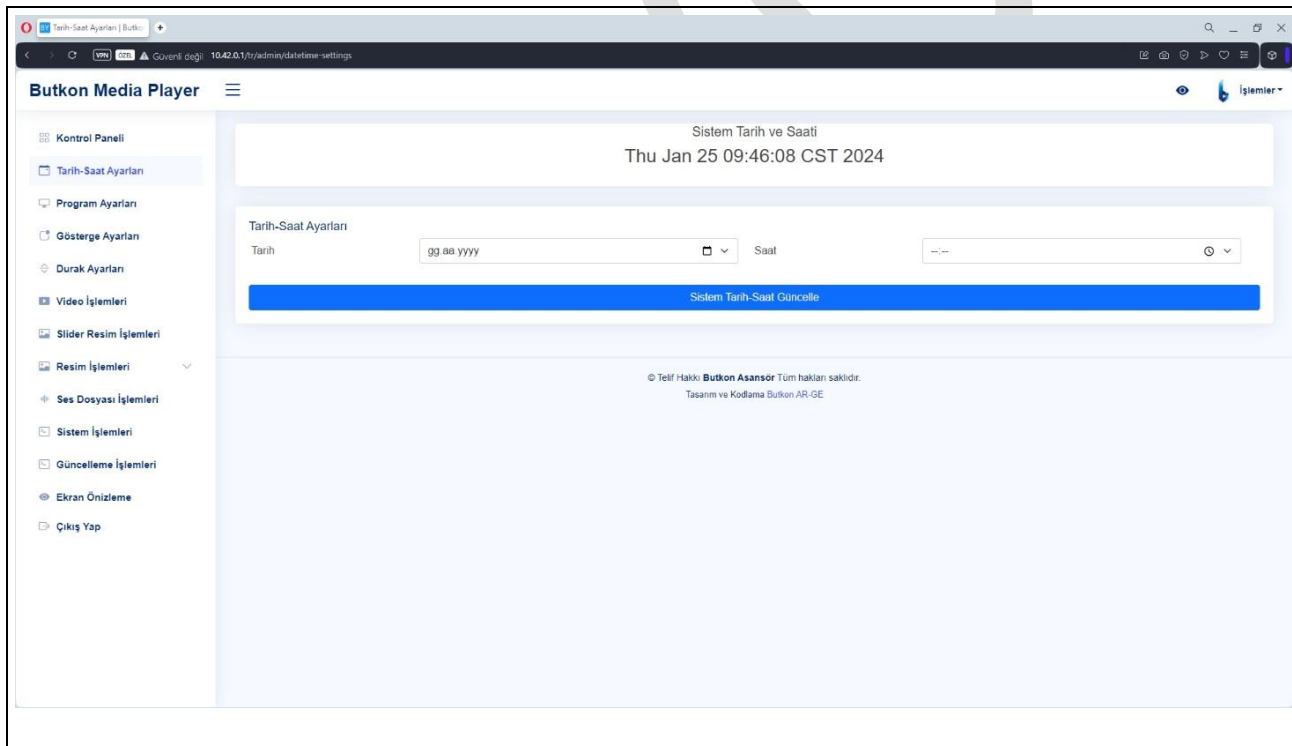
4.4 - Program Settings

The settings of the program are made here (See: Image - Program Settings)

Domain Name	Description
Screen Type	7" inch, 10" inch **Not used ** - The program automatically adjusts to the screen resolution.
Screen Mode	Vertical Horizontal
Connection Type	1=Parallel 2=Arkel 3=Butkon 4=INVT 5=Mikel - Coming with new version. (In development) 6=EMS (Eagle) - Coming with new version. (In development)

| Playback | Video - Plays only video Slider - Plays only image slides
ModeFloorImageView - Shows the image assigned to each floor (In development)
Video + Slider - Plays both video and slides (Enhancement |

at the stage of)	
Background	List of backgrounds for the program
Language	List of languages of the program (Default is Turkish)
Production	Car/Panel production year
Production Serial	Car/Panel serial number
Persons	Person in the elevator (Appears on the main screen.)
Weight	Weight capacity of elevator (displayed on the main screen.)
Number of Floors Queues	** Not in use **
Door Selection	** Not available **
Update Link	This is the address where updates of the program will be checked.
Font	The font used in the program interface.
DingDong	The dingdong sound is activated and played before the voice announcement.
Scrolling Text	The scrolling font entry at the bottom of the program screen

Announcment volume is the volume of the voice announcemen

Video Audio   Video audio volume. Min : 0, Max:10

Picture Transition The picture transition time when the playbackmode is Slider. Defaultvalue is 5 seconds.   Min:3, Max:20.

Marquee Speed   This is the speed level of the marquee. Min: 1, Max: 10.

Screen Brightness It is the screen backlight brightness level. Min:135, Max: 255.

Floor Font Type It is the place to select the font type of the display floor indicator. It contains more than one different 7-Segment, Dot Matrix (Round), DotMatrix (Square) and Options such as normal view are available.

Floor Font Color   You can give different colors to this view of the floor indicator.

Floor Font Size   You can scale the appearance of the floor legend.

Floor Font Mode You can set the font mode of the floor indicator to Bold or Normal.

Floor Animation   This selection is checked, the floor indicator animates in the same direction when moving up or down.

Car Lighting ** Not used **

NOTE : A system restart is required for the applied settings to take effect. Please ensure to restart the system to activate the changes.

4.5 - Indicator Settings

This page is dedicated to configuring display settings. Here, you can perform operations such as Down OK, Up OK, Door Opening, Door Closing, as well as select Pictogram image, video, and sound settings. For detailed explanations of the fields shown in the accompanying picture (refer to: Picture - Indicator Settings), please consult the provided table (refer to: Table - Indicator Settings Explanations).
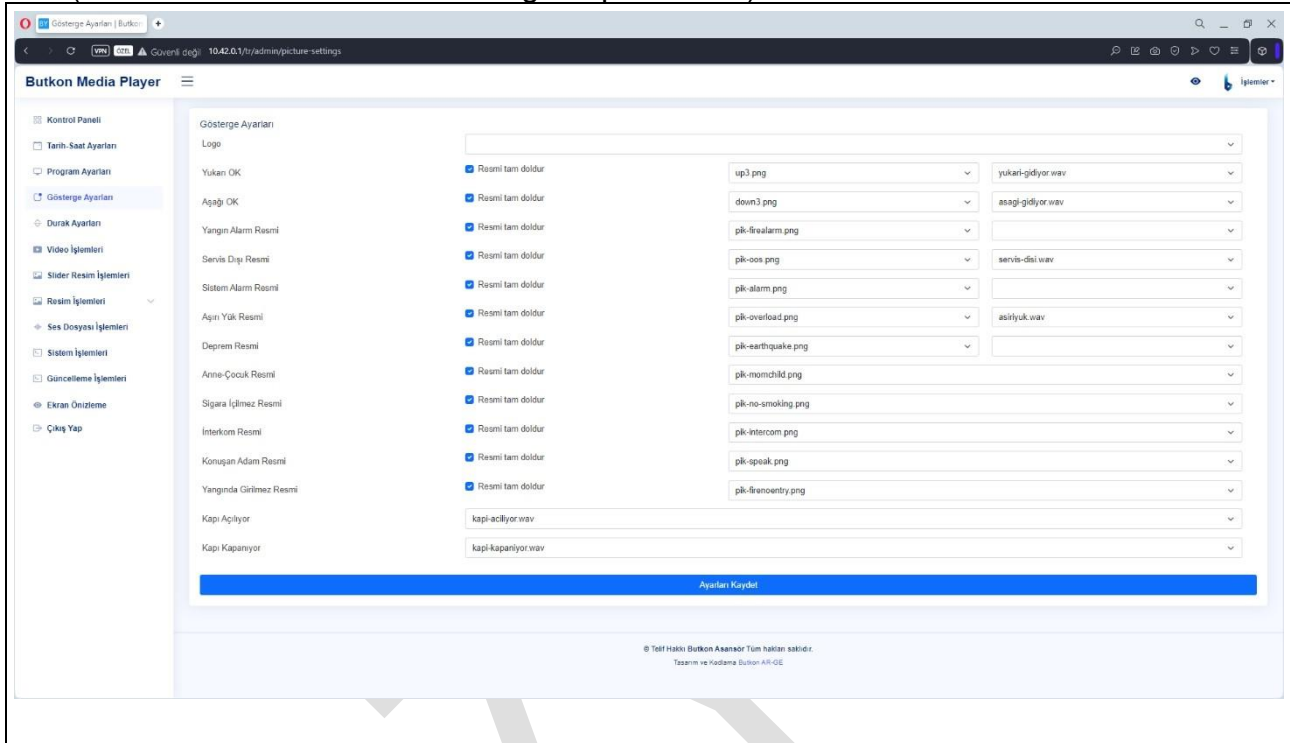
Indicator Field Descriptions	
Place	**Description**
Logo	The logo that appears on the screen is selected. (Logo image is uploaded from **Image Operations -> Other Images**)
Up	Up OK is selected and the sound to be played in the upward direction is selected.
Down	OKDown OK is selected and the sound to be played is selected in the down direction.
Fire alarm Played in this case	The picture to be displayed in case of fire alarm and the picture to be sound selection is made.
Out of Service Images Played in this case	The picture to be displayed in case of out of service and the picture to sound selection is made.
System Alarm Images Played in this case	The picture to be displayed in case of out of service and the picture to sound selection is made.

Overload Images Played in this case	The picture to be displayed in case of overload and the sound to be selection is made.
Earthquake Images	The picture to show in case of an earthquake and the sound to play in selection is made.
No entry in fire	It is a picture of impenetrable in case of fire. Location and appearance image subject to change.
Mother - Child Picture	It is a mother-child picture. Position and view are fixed. Picture only can be changed.
No Smoking	No smoking is official. Location and appearance are fixed. Picture only can be changed.
Intercom Picture	Intercom picture. Its position and appearance are fixed. Picture only can be changed.
Talking Man	It is a picture of a talking man. Position and appearance are fixed. can be changed.
Opening the Door	You can select the sound to be played when the door opens.
Door Closing	You can select the sound to be played when the door closes.

NOTE : You must restart the system for the settings made here to take effect.

NOTES ON FILE UPLOAD

To upload a **logo you** need to use the **IMAGE OPERATIONS -> Other images** page.

To upload an **up arrow**, you need to use the **PICTURE OPERATIONS -> Upload Up Arrow** page.

To upload **a down arrow**, you need to use the **PICTURE OPERATIONS -> Upload Down Arrow** page.

To upload a **pictogram image**, you need to use the **PICTURE OPERATIONS -> Other Images** page.

To upload an **audio file**, you need to use the **AUDIO FILE OPERATIONS** page.

The uploaded files (audio/picture/video etc...) will automatically appear in the list of related fields.

4.6 - Stop Settings

This is the page where stop settings are made. Floor name, nickname and audio file selection is done here. There is support for up to 64 stops. (See : Image - Floor Settings)
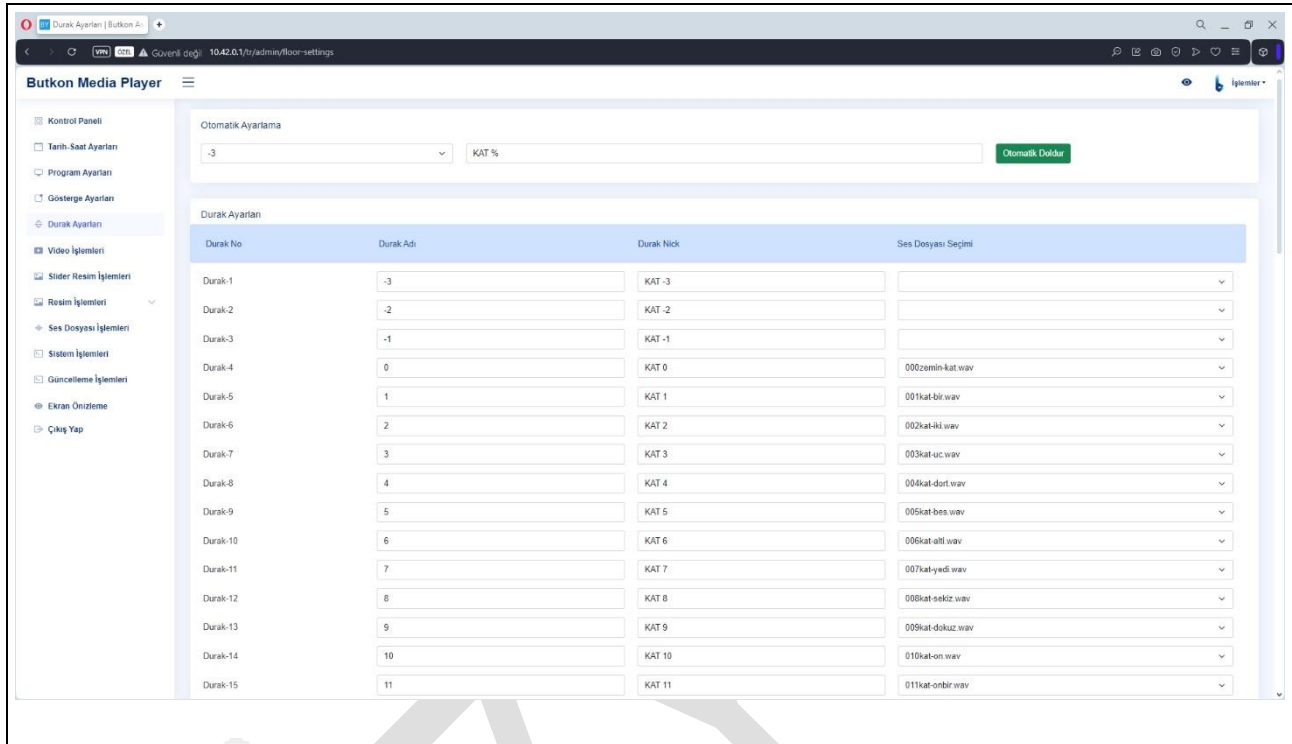

Domain Name	Description
Floor Nm.	It is the text shown at the relevant stop number. Parallel installation external The stop number comes from the dashboard of the relevant protocol.
Floor Nick	It is the text to be displayed at the relevant stop number (KAT-3, Parking lot, Restaurant etc.)
Audio File	The audio file to be played at the relevant stop is selected here.

With automatic stop setting you can enter the start point of the stop and the name to be written. The % sign will be replaced by the stop number.

Example: -2 When you type Floor % from the starting point of the stop you have selected, the system will automatically fill all the texts and sounds by continuing as Floor -2, Floor -1, Floor 0, Floor 1, Floor 2 to all nicknames from thestarting stop point.

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4.7 - Video Operations

Video uploading, listing, downloading and deleting operations are done here. **(See: Image - Video Operations)**
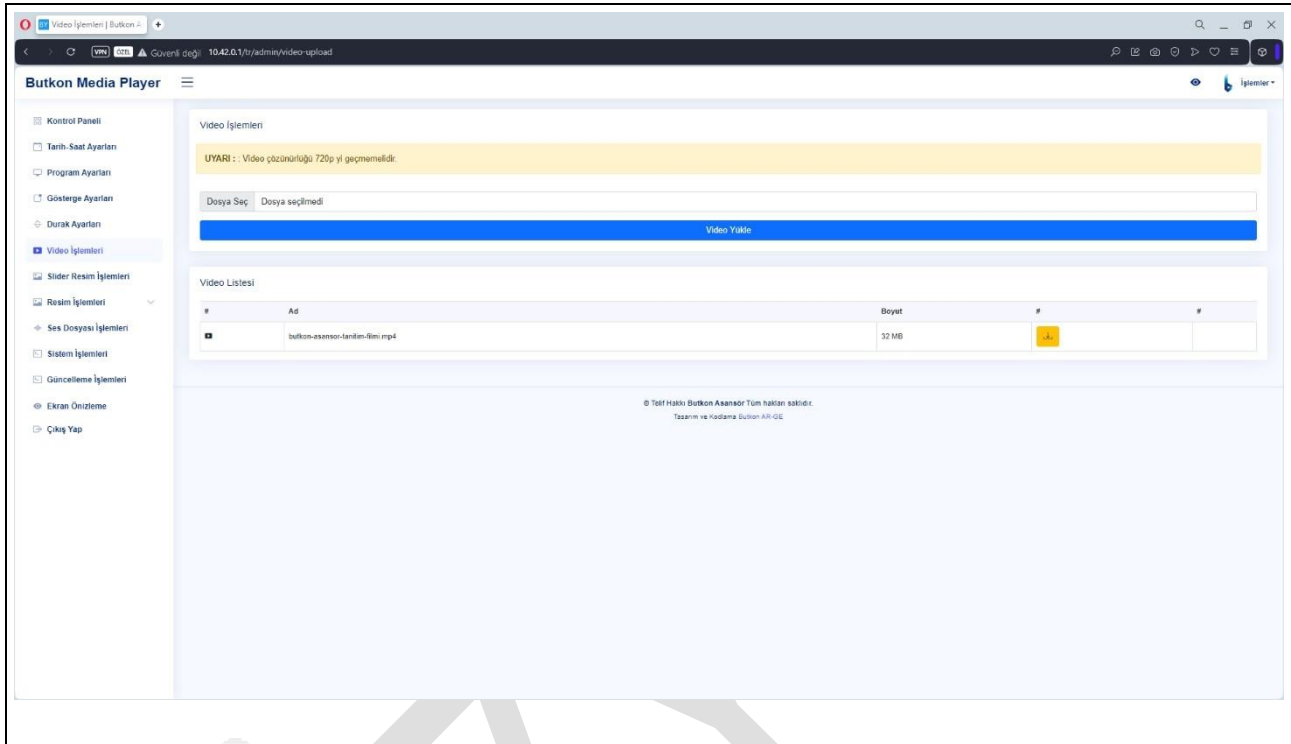
Notes on Video Uploading

- ➤ **1 video** can be **uploaded** at a time.
- ➤ The file size to be uploaded **should not exceed 200mb.**
- ➤ Video resolution **should not exceed 720p.**
- ➤ Supported video file extensions **(.mp4, .avi, mpg, mpeg)**

NOTE : You must restart the system for the settings made here to take effect.

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4.8 - Slider Image Operations

Slider   Image. operations,   Loading,   listing   and deletion
operations   **(See: Image - Slider Image Operations)**
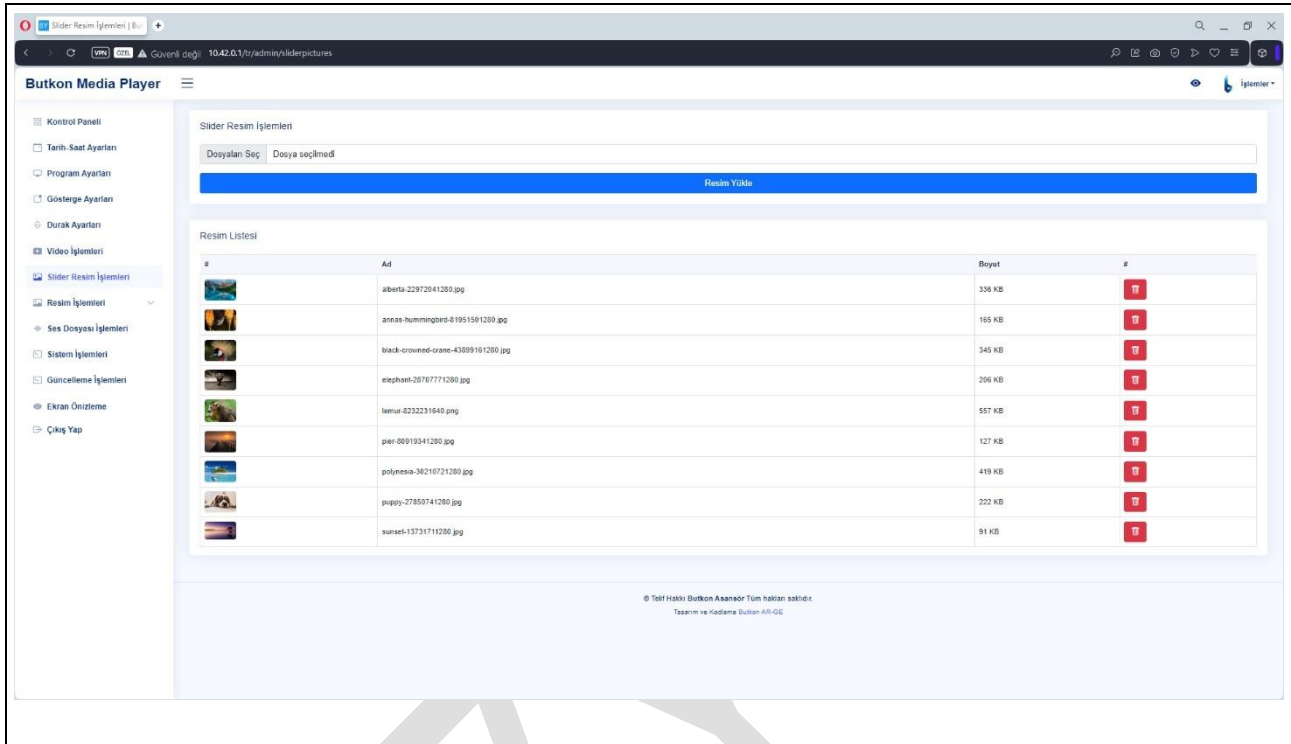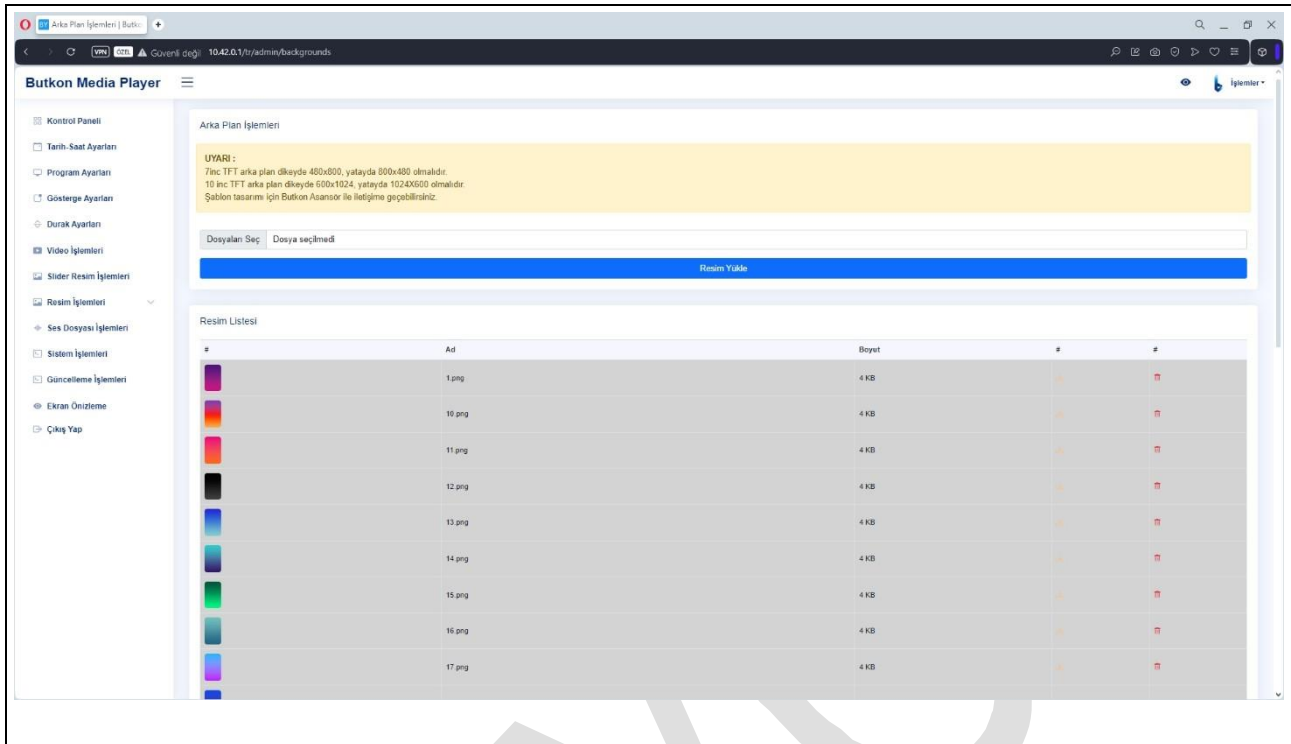
4.9 - Image Operations

Image operations are performed in the submenus under this menu.

Menu Name	Description
Upload Backgrounds	The backgrounds used by the program are uploaded here.
Upload Up Arrow	Images used by the program here is loaded.
Upload Down Arrow	The program uses Down OK images from here is loaded.
Other Pictures	Pictogram images and other images used by the program is loaded from here.

4.9.1 - Background Operations

4.9.2 - Up Arrow

4.9.3 - Down Arrow Operations

4.9.4 - Other Pictures

Notes on Image Uploading

➢ **A maximum of 20 images** can be uploaded at a time.
➢ Supported image file extensions **(.png, .jpg, .jpeg, .jpeg, .gif, .bmp)**
➢ The uploaded files will **automatically** appear in the **selection area of the relevant pages**.

4.10 - Audio File Operations

Audio file operations are performed on this page. On this page you can upload, list, listen and delete audio files. **(See Figure 8 - Audio File Operations)**
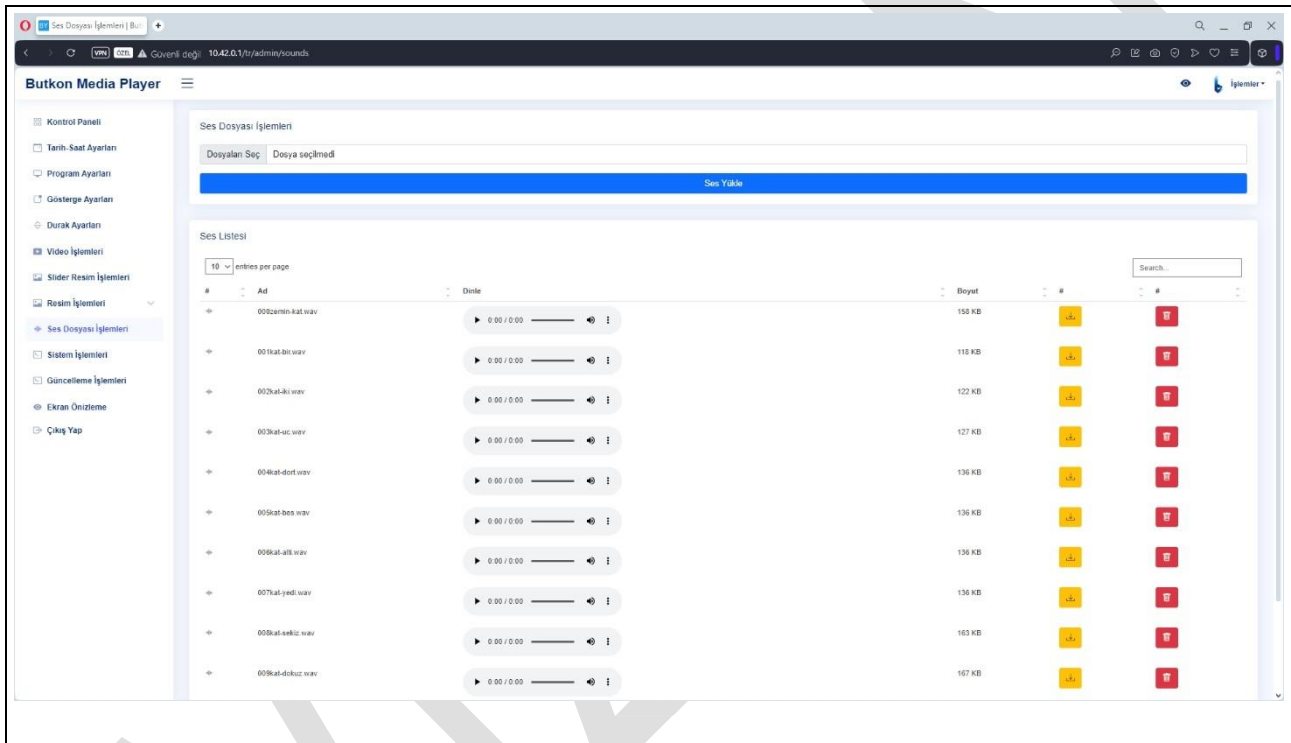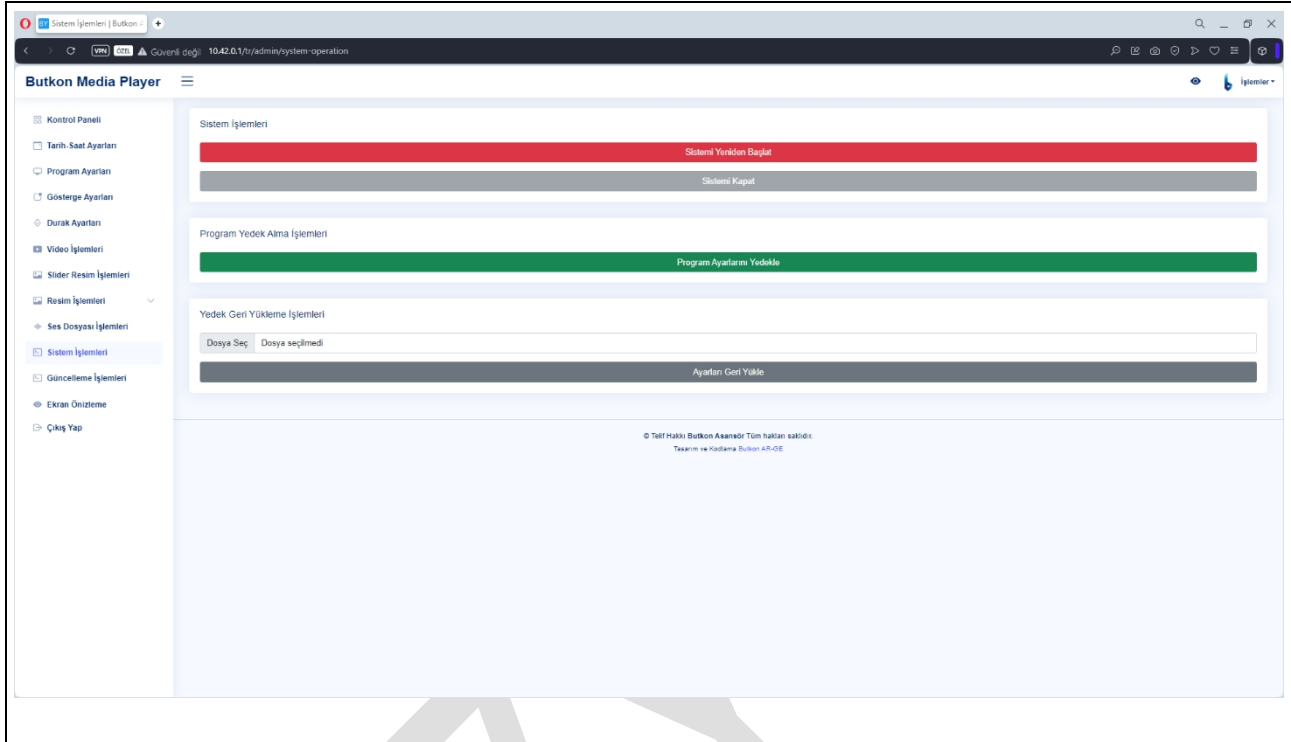

Notes on Audio File Operations

➢ A maximum of 20 **audio files** can be **uploaded at** a time.
➢ Supported audio file extensions **(.wav)**
➢ The uploaded files will **automatically** appear in the **selection area of the relevant pages**.

4.11 - System Operations

System and program operations are performed on this page. On this page you can reboot the system, take a backup and restore the backup file. **(See: Image - System Operations)**

| Description	
System Restart	Restarts the system.
Backup Program Settings Up	Backs up all settings of the program. **(Backup includes settings files, background files,** **Arrow files, down arrow files, other imagefiles, font files, audio files, slider images are backed up).** **Video files are not backed up.**
Restore all settings	Restores the backed up file to the system and Integrates the settings into the new system.

The backup process is completed in maximum 30-40 seconds. After the backup process is finished, the file download link will appear automatically. **(See: Image - Backup file download link)** After this process, you can download the relevant file to your computer, tablet or phone.
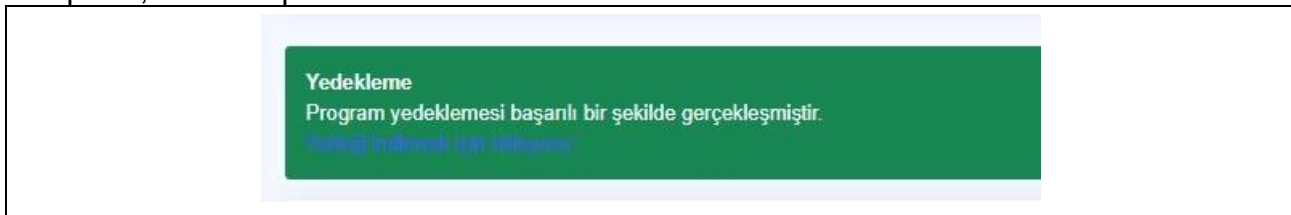
4.12 - Update Operations

Program update operations are done from this page.   **(See: Picture - Update Operations)**
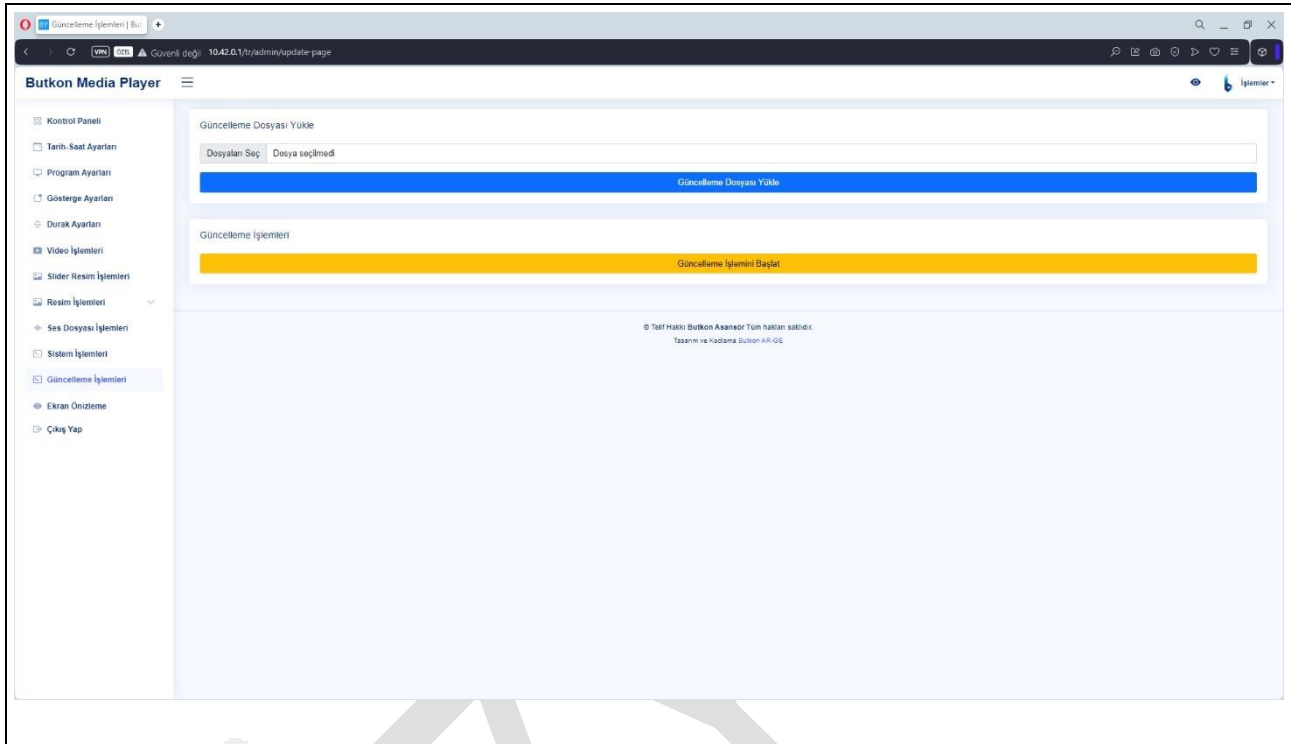
Upload Update File : This is the area where update files are uploaded. (Update Files: **version.txt** and **btkavplayer.zip**)

Start Update Process : This step should be done after uploading the files. All necessary checks and operations will be performed at this stage. Error or success messages about the installation will appear on the screen. (**See : Table - Update Warning Messages**) After the update process starts, the system will be restarted. **If the current version number does not appear, restart the system again.**

Update Warning Messages

Status	Message
Successful	**The update process started successfully.**
Failed	Update failed. Error Code : ????
Failed	The update file **(btkavplayer.zip)** was not found.
Failed	Version control file **(version.txt)** not found.

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4.13 - Screen Preview

Screen preview is done here. After the settings made on the web are saved, the preview can be seen here. **(See: Picture - Screen Preview)**
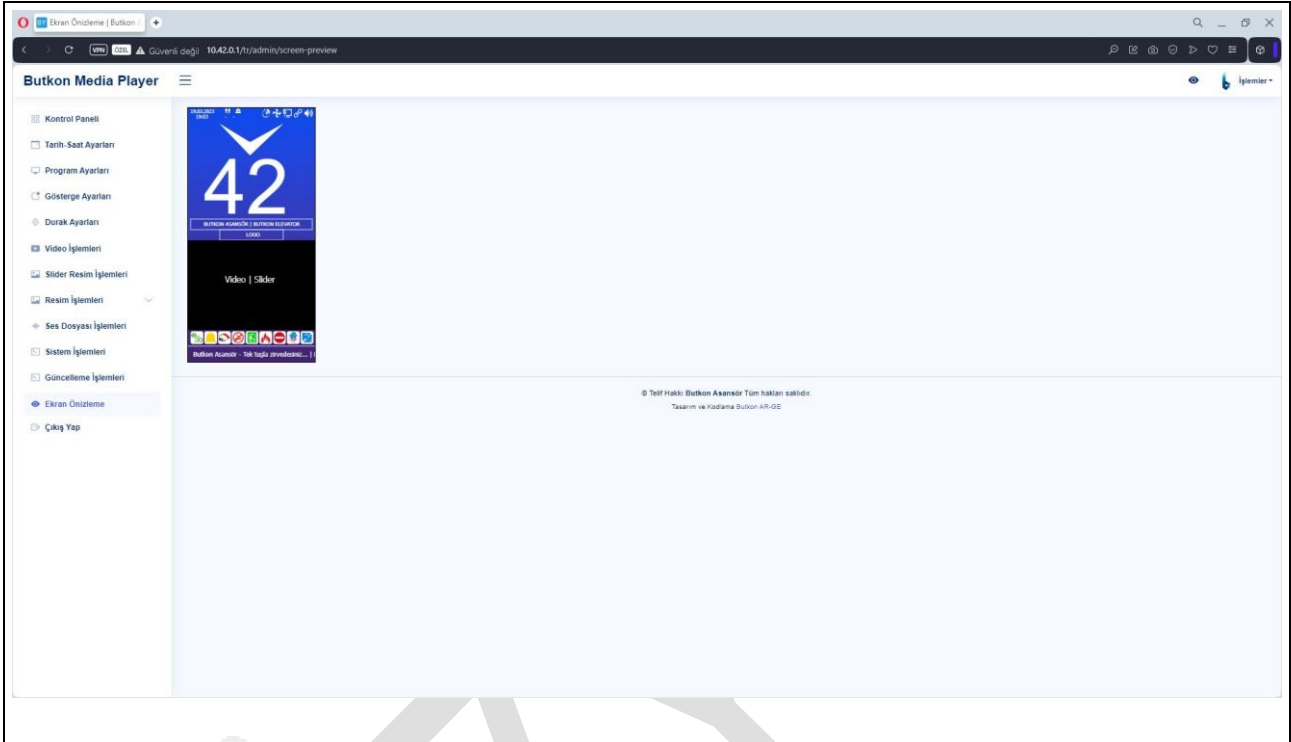
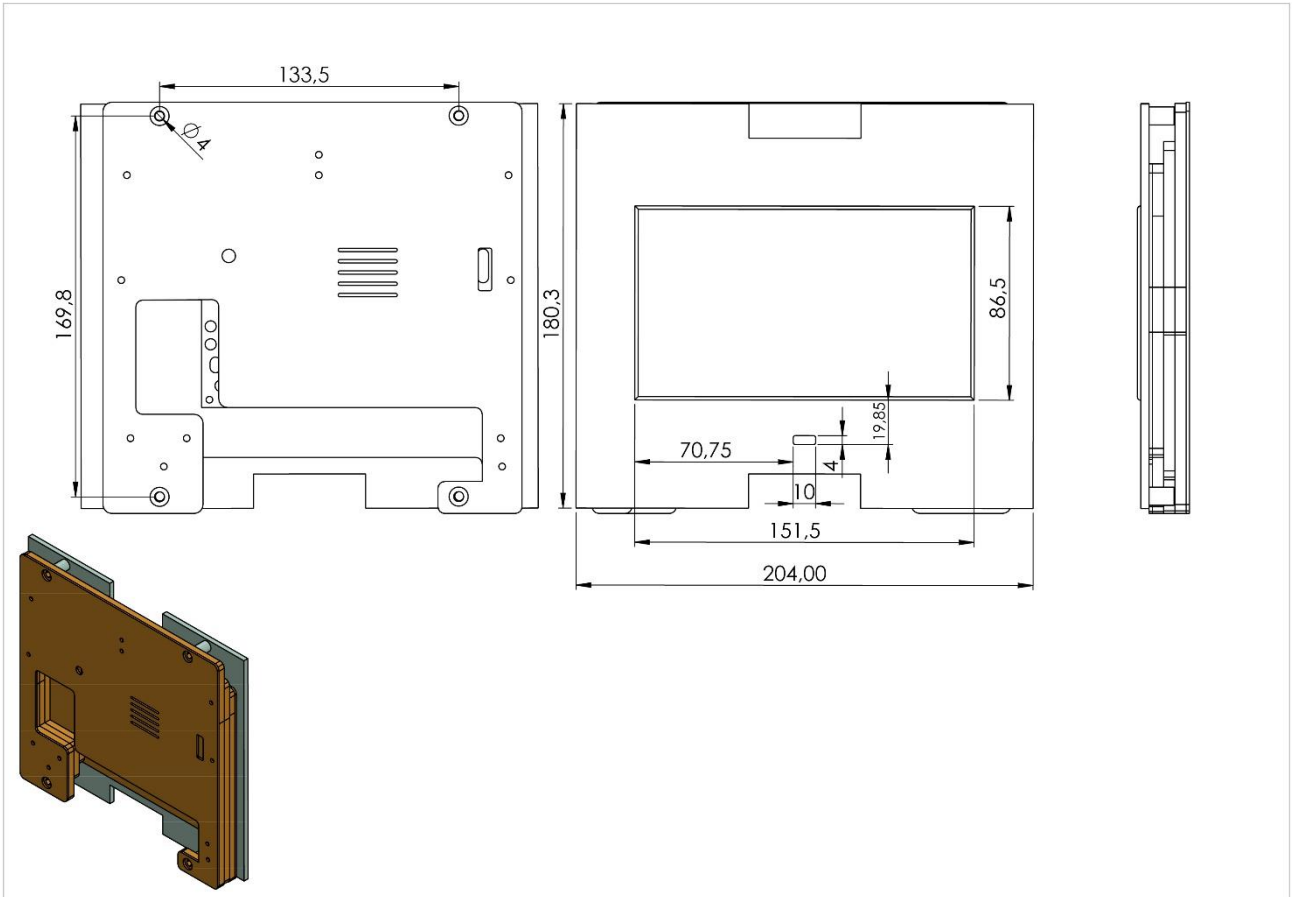**NOTE: The settings will not take effect unless the system is restarted.**

4.14 – Exit

It is for logging out via the web.

4.15 – Dimensions

7 Inch TFT

Backside   *Frontside*

10 Inch TFT

Backside   **Frontside**