DAP

PROFESSIONAL SOLID STATE PLAYER
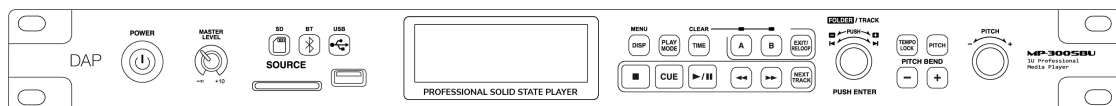
MP-300SBU Professional Multimedia Player

Product code: D1243

Preface

Thank you for purchasing this DAP product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Intended and non-intended use of the device
- Installation and operation of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

Table of contents

1. Introduction

1.1. Before Using the Product

> **Important**
> **Read and follow the instructions in this user manual before installing, operating or servicing this product.**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

Figure 1
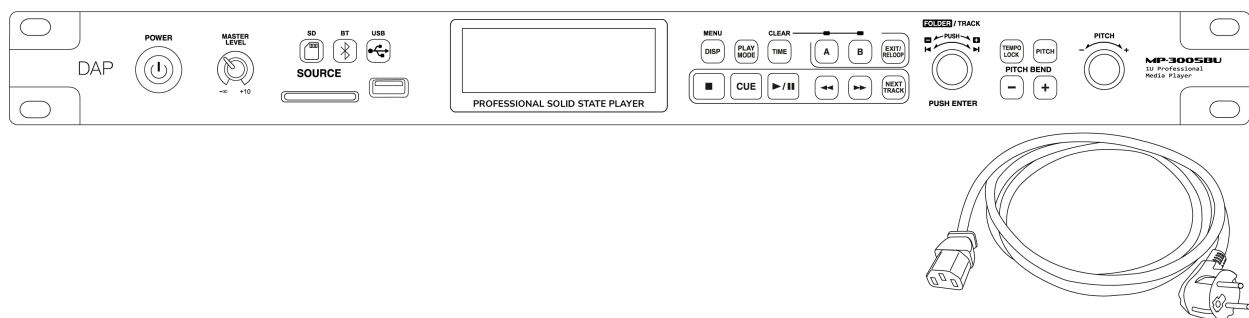
- DAP MP-300SBU Professional Multimedia Player
- Schuko to IEC power cable (1,5 m)
- User manual

1.2. Intended Use

This device is intended for professional use as a professional media player. It can be installed only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.4.   Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.

⚠️	**DANGER**	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠️	**WARNING**	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠️	**CAUTION**	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
❗	**Attention**	Indicates important information for the correct operation and use of the product.
📖	**Important**	Read and observe the instructions in this document.
⚡	**Electrical hazard**	
🗑️		Provides important information about the disposal of this product.

1.5.   Symbols on the Information Label

This product is provided with an information label. The information label is located on the side of the device.

The information label contains the following symbols:

|	
🗑️	This device shall not be treated as household waste.
⏚	This device falls under IEC protection class I.

2.   Safety

> **Important**
> **Read and follow the instructions in this user manual before installing, operating or servicing this product.**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1.   Warnings and Safety Instructions

> **DANGER**
> **Danger for children**

For adult use only. The device must be installed beyond the reach of children.

- Do not leave any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.

> **DANGER**
> **Electric shock caused by dangerous voltage inside**

There are areas inside the device where dangerous touch voltage may be present.

- Do not open the device or remove any covers.
- Do not operate the device if the covers or the housing are open. Before operation, check if the housing is firmly closed and all screws are tightly fastened.
- Disconnect the device from the electrical power supply before service and maintenance, and when the device is not in use.

> **DANGER**
> **Electric shock caused by short-circuit**

This device falls under IEC protection Class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with a ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not let the power cable come into contact with other cables. Handle the power cable and all connections with the mains with caution.
- Do not modify, bend, mechanically strain, put pressure on, pull or heat up the power cable.
- Make sure that the power cable is not crimped or damaged. Examine the power cable periodically for any defects.
- Do not immerse the device in water or other liquids. Do not install the device in a location where flooding may occur.
- Do not use the device during thunderstorms. Disconnect the device from the electrical power supply immediately.

> **Attention**
> **Power supply**

- Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

- Make sure that the cross-sectional area of the extension cords and power cables is sufficient for the required power consumption of the device.

❗ Attention
General safety

- Do not block the ventilation openings. Without proper heat dissipation and air circulation, the internal components may overheat. This can result in product damage.
- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.
- If the device fails to work properly, discontinue use immediately.

❗ Attention
For professional use only
This device must be used only for the purposes it is designed for.

This device is designed to be used as a professional media player. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

❗ Attention
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2.　Requirements for the User

This product may be used by ordinary persons. Maintenance may be carried out by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and avoid hazards associated with the installation, service and maintenance of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3.   Description of the Device

The DAP MP-300SBU Professional Multimedia Player is a USB, SD card and BT 5.3 audio player and is designed for installation into a 19'' rack. The device features pitch, tempo and playback controls. It has an RCA line output and a set of balanced XLR outputs.

The DAP MP-300SBU Professional Multimedia Player supports a maximum storage capacity of 256 GB and plays FLAC, MP3 and WAV formats at up to 48 kHz sampling rate. An A2DP profile is supported for BT connectivity. The device can be operated using the controls on the front.

3.1.   Front View

Figure 2
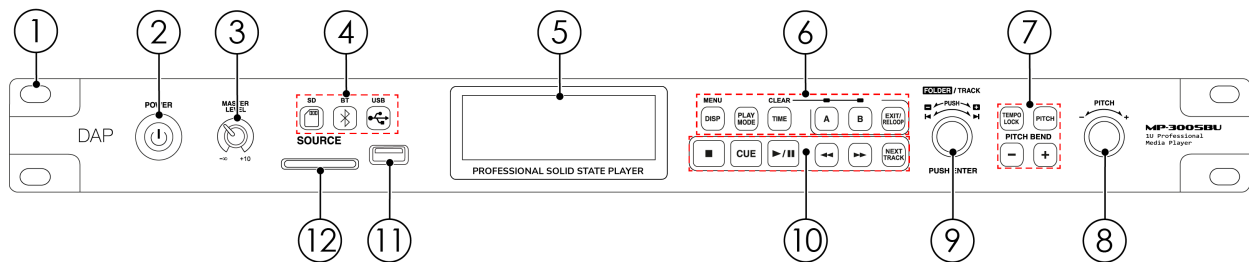
01) 4x mounting openings (for installation in a 19-inch rack)
02) Power button
03) Master level control knob
04) Source input buttons
05) LCD display (see 3.3. LCD Display on page 8)
06) Control buttons
07) Pitch buttons
08) Pitch control knob
09) Folder/track control knob
10) Playback buttons
11) USB-A connector in
12) SD card slot

3.2.   Back View

Figure 3
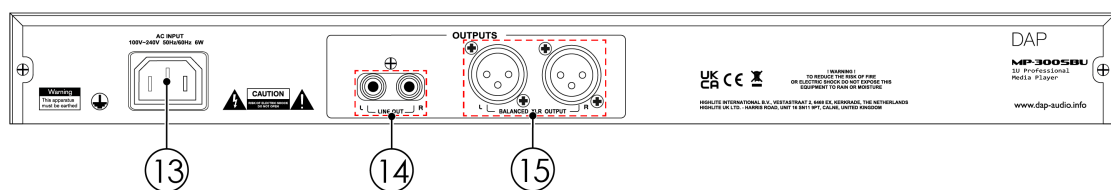
13) IEC power connector IN
14) RCA analog line-level connectors OUT (Left/Right)
15) 3-pin XLR balanced connectors OUT (Left/Right)

3.3. LCD Display

Figure 4

16) Track number
17) Folder number
18) Time display
19) Pitch mode indicator
20) A/B indicator
21) Pitch setting indicator
22) Loop mode indicator
23) Auto cue indicator
24) Tempo lock indicator
25) Track information display
26) Play/pause/cue indicator
27) Remain/elapsed indicator
28) Repeat mode indicator
29) Track position number

3.4.   Product Specifications

Model:	MP-300SBU Professional Multimedia Player

Outputs:	
Main outputs	1
Main output connector	3-pin XLR / RCA

Playback:	
Supported audio files	FLAC / MP3 / WAV
Supported format	exFAT / FAT16 / FAT32
Maximum storage size	256 GB
Media input/output	USB-A / SD Card
USB type	2.0
Audio sample rate	48 kHz
Playback functions	Up (Skip) / Down (Skip) / Play / Pauze / Stop / Time / Folder / Repeat

Audio specifications:	
THD level	< 0,005 %
Signal-to-noise ratio	> 70 dB
Frequency response minimum	20 Hz
Frequency response maximum	20.000 Hz

Wireless specifications:	
BT version	5.3
BT audio profile	A2DP
BT range	20 m

Control and programming:	
Display	LCD
Display size	3,2 "

Electrical specifications and connections:	
Power supply	100–240 V AC 50/60 Hz
Power consumption	6 W
Power connector in	IEC

Mechanical specifications:	
Height	44,45 mm
Depth	168 mm
Width	482 mm
Installation depth (excl. connector)	154 mm
Flightcase size	19"
Rack units	1 U
Housing	Steel
Color	Black
Weight	1,6 kg
IP rating	IP20 (indoor use only)

Product properties:

LED indicators	Power

Thermal specifications:

Maximum ambient temperature	50 °C
Minimum ambient temperature	-20 °C

Included items:

Included cables	IEC cable

3.5.   Dimensions

Figure 5
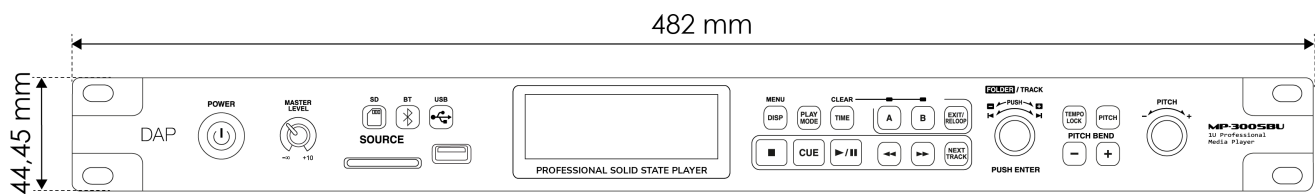
4.   Installation and Setup

4.1.   Warnings and Precautions

> **Attention**
> **Connect all data cables before supplying power.**
> **Disconnect power supply before connecting or disconnecting data cables.**

4.2.   Safety Instructions for Installation

> **Attention**
> **Make sure that there is enough space for ventilation around the device.**

- Do not block the ventilation openings. Without proper heat dissipation and air circulation, the internal components may overheat. This can result in product damage.
- Do not install near equipment that produces heat, for example amplifiers.

4.3.   Installation Site Requirements

- The device can be used only indoors.
- The minimum distance to other objects must be bigger than 0,5 m.
- The maximum ambient temperature t_a = 50 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 50 °C.

4.4.   Rack Mounting

The device can be mounted in a standard 19-inch rack. The device requires 1 rack unit (RU) of space. Make sure that the rack is sufficiently secured to prevent it from becoming unstable or falling over.

To mount the device in a two-post rack, follow the steps below:

01) Insert 4 cage nuts in the openings on the rack posts where you want to mount the device.
02) Position the device in front of the rack posts so that the 4 **mounting openings (01)** on the flanges face the openings on the rack posts with cage nuts.
03) Use a screwdriver to mount the device to the rack posts with 4 screws.

4.5.   Connecting to Power Supply

> **DANGER**
> **Electric shock caused by short-circuit**

The device accepts AC mains power at 100–240 V and 50/60 Hz. Do not supply power at any other voltage or frequency to the device.

This device falls under IEC protection class I. Make sure that the device is always electrically connected to the ground (earth).

Before connecting the device to the socket-outlet:
- Make sure that the power supply matches the input voltage specified on the information label on the device.
- Make sure that the socket-outlet has ground (earth) connection.

Connect the device to the socket-outlet with the power plug. Do not connect the device to a dimmer circuit, as this may damage the device.

4.6.   Start-up

To connect and use the device, follow the steps below:

01) Make sure that the device is switched off.
02) Connect speakers to the **RCA analog line-level connectors OUT (Left/Right) (14)** or **3-pin XLR balanced connectors OUT (Left/Right) (15)**.
03) Press the **power button (02)** to switch on the device.
04) Connect an audio source (see).
05) Adjust the volume with the **master level control knob (03)**.
06) Adjust the control options.

Note: Press the **master level control knob (03)** to make it flush with the front of the MP-300SBU Professional Multimedia Player.

5. Operation

5.1. Safety Instructions for Operation

> **!** **Attention**
> **This device must be used only for the purposes it is designed for.**

This device is intended for professional use as a professional media player. It can be used only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

> **!** **Attention**
> **Power supply**

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

5.2. Media Sources

The MP-300SBU Professional Multimedia Player supports the following media sources:

- SD card (see 5.2.1. SD Card)
- BT connection (see 5.2.2. BT Connection)
- USB drive (see 5.2.3. USB Drive)

Note: If an SD card or USB drive does not contain any playable media, the **source input buttons (04)** for SD and USB do not function.

5.2.1. SD Card

To play audio from an SD card, follow the steps below:

01) Switch on the device.
02) Place an SD card into the **SD card slot (12)**.
03) Press the **source input button (04)** for the SD card.

Note: Press an SD card that is in the **SD card slot (12)** to remove it.

5.2.2. BT Connection

To stream audio through BT follow the steps below:

01) Switch on the device.
02) Start BT on your mobile device.
03) On your mobile device scan for the available BT devices. The ID of the MP-300SBU Professional Multimedia Player is "MP-300SBU".
04) Pair your mobile device with the MP-300SBU Professional Multimedia Player.
05) Press the **source input button (04)** for BT.

Note: The MP-300SBU Professional Multimedia Player cannot be paired to more than 1 mobile device. Turn off BT on a paired mobile device or remove the MP-300SBU Professional Multimedia Player from the list of paired devices before pairing a new mobile device.
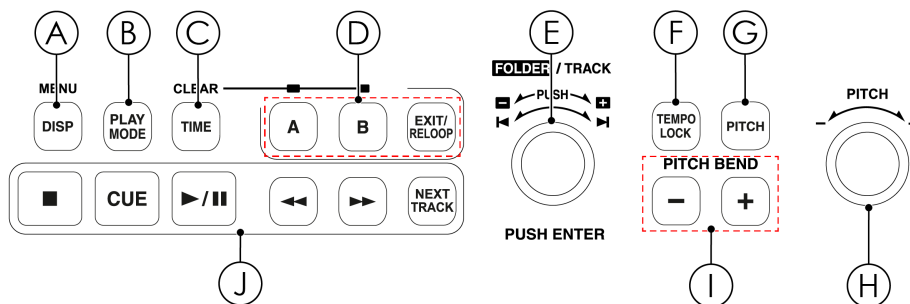
5.2.3. USB Drive

To play audio from a USB drive, follow the steps below:

01) Switch on the device.
02) Place a USB drive into the **USB-A connector in (11)**.
03) Press the **source input button (04)** for USB.

5.3. Control Options

The MP-300SBU Professional Multimedia Player has the following control options:

A. Display button (see 5.3.1. Display Options)
B. Play mode button (see 5.3.2. Play Mode)
C. Time button (see 5.3.3. Time Display)
D. Loop function buttons (see 5.3.4. Loop Functions)
E. Folder/track control knob (see 5.3.5. Folder and Track Controls)
F. Tempo Lock button (see 5.3.6. Pitch Mode)
G. Pitch button (see 5.3.6. Pitch Mode)
H. Pitch control knob (see 5.3.7. Pitch Bend Controls)
I. Pitch bend buttons (see 5.3.7. Pitch Bend Controls)
J. Playback buttons (see 5.3.8. Playback Functions)

5.3.1. Display Options

The **display button (A)** has two functions:

• Press the **display button (A)** to view the following information for the current track: track folder name, track title name, artist name and album name
• Press and hold the **display button (A)** to enter the playback presets menu (see 5.3.1.1. Playback Presets)

5.3.1.1. Playback Presets

In this menu you can adjust the playback presets for the device.

Turn the **folder/track control knob (09)** to select one of the following 4 settings:

• Power on: Adjust if the device automatically starts playing a track when it is powered on
• Repeat play: Turn repeat playback in the current play mode (see 5.3.2. Play Mode on page 15) on or off
• Auto cue: Turn the auto cue function (see 5.3.8.2. Cue Functions on page 16) on or off
• Default: Reset the device to the default factory settings

Press the **folder/track control knob (09)** to change or select a setting.

5.3.2. Play Mode

01) Press the **play mode button (B)** to enter the play mode menu.
02) Turn the **folder/track control knob (09)** to select one of the following 5 settings:
 • SINGLE: Play a single track
 • CNT ALL: Play all tracks on the current media source
 • CNT FOLDER: Play all tracks in the current folder
 • RND ALL: Play all tracks on the current media source in a random order
 • RND FOLDER: Play all tracks in the current folder in a random order
03) Press the **folder/track control knob (09)** to select a setting.

5.3.3. Time Display

The **time display (18)** on the **LCD display (05)** can displays how much time has elapsed or how much time is remaining for the current track.

Press the **time button (C)** to change the setting.

5.3.4. Loop Functions

You can play a play a section of a track on repeat by setting a start and end point for a loop.

To set a loop, follow the steps below.

01) Press A to set a start point for the loop. The **A/B indicator (20)** displays an "A".
02) Press B to set the end point for the loop. The **A/B indicator (20)** displays "A-B" and "RELOOP". The playback of the loop starts immediately.
03) Press Exit/Reloop to release the loop. The track will continue playing as normal.
04) Press Exit/Reloop again to resume the loop. The loop will start playing again from point A.
05) Press and hold the **time button (C)** and press A to cancel the A and B points or press B to cancel only the B point.

5.3.5. Folder and Track Controls

The **folder/track control knob (E)** has the following functions:

• Turn the **folder/track control knob (E)** left or right during playback to go to the previous or next track
• Press down the **folder/track control knob (E)** and turn it left or right to move to the next folder
• Turn the **folder/track control knob (E)** when in a menu to go through the options
• Press the **folder/track control knob (E)** when in a menu to change or select an option

5.3.6. Pitch Mode

To change the pitch of the track that is playing, follow the steps below:

01) Press the **pitch button (G)** to enter pitch mode.
02) Turn the **pitch control knob (H)** to adjust the pitch. The **pitch setting indicator (21)** displays the current setting. The range is -20 – +20.
03) Press the **tempo lock button (F)** to resume normal playback while keeping the pitch setting.
04) Press the **tempo lock button (F)** again to resume playback with the adjusted pitch.
05) Press the **pitch knob (G)** to exit pitch mode.

5.3.7. Pitch Bend Controls

To temporarily change the pitch and tempo of the track that is currently playing, follow the steps below:

01) Press and hold the + or - from the **tempo and pitch buttons (I)** to temporarily speed up or slow down the track.
02) Release the + or - from the **tempo and pitch buttons (I)** to resume normal playback.

5.3.8.   Playback Functions

The MP-300SBU Professional Multimedia Player has the following options for track playback:

- Stop button: Press this button to stop a track and go back to the beginning
- Cue button: Press this button to activate the cue function (see 5.3.8.2. Cue Functions)
- Pause/play button: Press this button to play or pause a track
- Fast reverse button: Press and hold this button to fast reverse through the track
- Fast forward button: Press and hold this button to fast forward through the track
- Next track button: Press this button to reserve a track (see 5.3.8.1. Next Track). This also affects the cue function (see 5.3.8.2. Cue Functions)

5.3.8.1. Next Track

01) Press the Next track button during playback. "Next Track" is displayed on the **LCD display (05)** for 2 seconds to confirm that the next track for playback is reserved. The Next track button lights up.
02) Use the **folder/track control knob (09)** to select a folder and track (see 5.3.5. Folder and Track Controls on page 15). The folder and track number flash on the **LCD display (05)** (see 3.3. LCD Display on page 8).
03) Press the Next track button again to cancel the track reservation. The Next track button turns off.

5.3.8.2. Cue Functions

There are multiple ways to cue a track with the cue button:

- If a track is reserved with the next track button, the reserved track will play from the start
- If no track is reserved and auto cue is active (see 5.3.1.1. Playback Presets on page 14), the current track will play from the point where the music starts
- If a track is reserved with the next track button and auto cue is active (see 5.3.1.1. Playback Presets on page 14), the reserved track will play from the point where the music starts
- If no track is reserved and auto cue is not active, the current track will play from the start

6. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	• Check if power is switched on and cables are plugged in
	Internal fuse is blown	• Return the device to your DAP dealer
No sound	The volume is set to minimum	• Increase the volume

7. Maintenance

7.1. Safety Instructions for Maintenance

⚠	**DANGER** **Electric shock caused by dangerous voltage inside**

Disconnect power supply before servicing or cleaning.

7.2. Preventive Maintenance

❶	**Attention** **Before use, examine the device visually for any defects.**

Make sure that:

• The housing is not damaged.
• The power cable is not damaged and does not show any material fatigue.

7.2.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 5 minutes.
03) Clean the device with a soft, lint-free cloth.

❶	**Attention**

• Do not immerse the device in liquid.
• Do not use alcohol or solvents.

7.3. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8.   Transportation and Storage

8.1.   Instructions for Transportation

- Use the original packaging to transport the device, if possible.
- Always observe the handling instructions printed on the outer carton box, for example: "Handle with care", "This side up", "Fragile".

8.2.   Storage

- Clean the device before storing. (see 7.2.1. Basic Cleaning Instructions on page 17)
- Store the device in the original packaging, if possible.

9.   Disposal

Correct disposal of this product

Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

10.   Approval

CE

Hereby, Highlite International declares that the device MP-300SBU Professional Multimedia Player, product code D1243, is in compliance with Directive 2014/53/EU (RED – Radio Equipment Directive).

The full text of the EU declaration of conformity is available on the respective product page on the website of Highlite International (www.highlite.com).