



System Clock Calibration for My Music Player

Firmware version 1698 and higher

**User's Manual
v1.0**

Table of Contents

1 Introduction.....	2
2 Basics.....	2
3 Execution.....	3

ID-AL products are exclusively manufactured by Waves System

LA VILLE EN BOIS

44830 BOUAYE – FRANCE

Sales and information: +33 2 40 78 22 44

E-mail : info@id-al.com – Web site: www.id-al.com

Technical department: support@wsystem.com

Technical support: For a detailed list of the technical support options, we suggest you to visit our site: www.id-al.com.

Information in this manual is subject to change without notice and do not represent any commitment from Waves System. The equipment described in this manual is supplied under condition of the terms of license specifying the legal use conditions. This manual can't be reproduced or used, in whole or in part, in any form and by any mean, for other use than private, without the written permission from Waves System.

ID-AL is a trademarks of Waves System.

1 Introduction

*"When using the scheduling function of My Music Player (**Scheduler**), the player uses its system clock to trigger programmed actions on the desired date and the desired time. The accuracy of the player's system clock is essential if you want to ensure a precise triggering of programmed actions. As accurate is the player's system clock, a slight drift may occur over time..*

*To remedy this, we generally use an automatic update system time by network, called **NTP** (Network Time Protocol). By regularly consulting a time-setting network service (identical at a computer or a mobile phone), this mechanism ensures that the player's clock will be always at the right date and time, whatever the drift of the system clock.*

In some cases, the connection to the Ethernet network is not possible and only the player's system clock will be used with any drift that implies a long period of operation without human intervention to correct the time.

*Since the 1698 version of the player's firmware, a correction mechanism called **NTP calibration** was added to ensure greater accuracy of the internal clock when the player is not connected to the Ethernet network. This manual explains how to perform this **calibration** step before installing the player."*

2 Basics

While the 1698 version of the My Music Player's firmware greatly improves the accuracy of the player's system clock without performing the calibration operation, this operation will allow to get a very high accuracy of the system clock. What is not insignificant if the player is aimed to operate in standalone over a long period of use.

When is it necessary to do the calibration?

When you use the **Scheduler** and the player is not connected to the Ethernet network, or the automatic update of the time by the network (NTP) is not possible while the player is connected to the network.

When should I do the calibration?

Before the first installation of the drive and at each new update firmware.

Note: The calibration is saved even if the player is powered off.

What do I need to perform the player calibration?

- A player's firmware below or higher than the version 1698.
- A preliminary connection to the Ethernet network in order to access to the automatic update time service by the network (NTP).

How long time does it take calibrate the player?

The more calibration time is long, the more calibration is accurate. Calibration should last at least 4 hours but is optimal after 48 hours.

3 Execution

- Connect the player to the network by using the Ethernet connection (RJ45 port) of the player.
- Make sure the network settings are configured correctly according to the local network setting (DHCP or static IP), to be sure that the update service of the clock by the network (NTP) is accessible.

Note: for more information on the My Music Player network configuration, refer to the corresponding section of the user's manual.

- Enable the network update clock service (NTP). Two methods are possible:

With the player's LCD UI:

Press the player's rotary button-encoder **DATA**. Select the **ADMINISTRATOR** menu. Then, select the **DATE/TIME** menu. Activate the NTP function by selecting **ON** in the **NTP MODE** option menu.

With the player's Web UI:

Get connected to the player with a web browser software by entering, in the address field, the player's ID (eg http: // mmp-8b0a) or the player's IP address (eg 192.168.0.23).

Get connected in the 'Administrator mode' by entering the username and the password administrator (**admin** and **admin** by default). Go to the **Admin** page and activate the NTP by selecting **On** in the **NTP synchro** option. Then, confirm the changes with the **Save** button at the bottom of the page..

- Let the player switched on and connected to the network for a period of between 4 hours and 48 hours. During this period the player will operate the calibration of the system clock by regularly comparing the system clock with the NTP network time.

Note: The more calibration time is long, the more calibration is accurate. To be effective, the calibration must last at least 4 hours.

- Once the calibration duration is done, turn off the player. The calibration of the clock is now registered in the internal memory of the player. The Ethernet connection is no longer necessary.



**For more information
visit our website
www.id-al.com**