

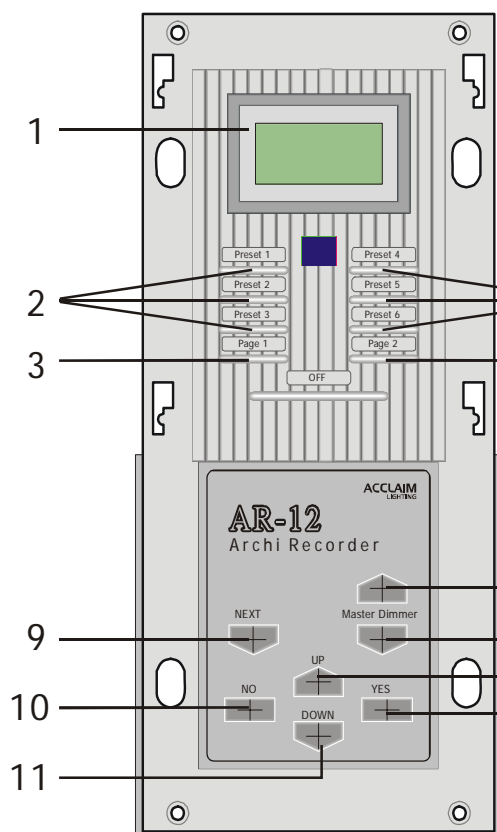
### 1 Product Description

Thanks for your purchase of our product AR-12. This is a wall-fixed DMX controller with many useful functions. The AR-12 product is used in combination with an AR-12P unit, and it's specially designed for the supermarket or hall lighting control. The unit can send standard 512-channel DMX signals, and up to 8 sets of AR-12 units can be linked up for use. 12 editable programs, 99 recordable Scenes and 12 recordable Shows are provided. Time Call (Time on and Time off), calendar and time setting functions are also provided by this unit. To optimize the performance of this product, user should read the instruction manual carefully to familiarize yourself with the basic operations of this unit.

#### Warning

- Keep the unit dry, do not expose it to water or high levels of humid.
- Do not open this unit, there is no user serviceable part inside.
- Turn off the power if not using this unit for a long time.
- Any strong shocks or vibration may result in malfunction.
- Do not attempt to dismantle or modify the unit.
- This unit must only be operated by adults, do not allow children to play with it.

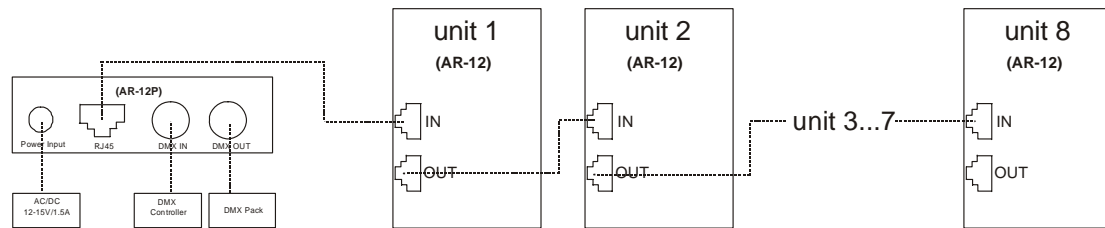
### 2 Controls and Functions



1. **LCD-display:**  
Reads current function mode or activity.
2. **Preset buttons:**  
To input the password or used as relevant assigned buttons.
3. **Page buttons 1-2:**  
Page1: 1-6 Preset buttons available.  
Page2: 7-12 Preset buttons available.
4. **OFF button:**  
Press this button, the current DMX value will run to 0 level within the Delay time.
5. **Master Dimmer Up button:**  
Used to adjust relevant Master level. Each tap will increase the level once.
6. **Master Dimmer Down button:**  
Used to adjust relevant Master level. Each tap will decrease the level once.
7. **UP button:**  
To select relative function mode or to increase relevant value.
8. **YES button:**  
To confirm or enter relative operation.
9. **NEXT button:**  
Press this button to step to another item.
10. **NO button:**  
To cancel or return to the previous menu.
11. **DOWN button:**  
To select relative function mode or to decrease relevant value.

### 3 Installations

User can do the installation and link up relevant units as the following flowchart shows:



(Make sure the cable is suitable and undamaged. User can use the standard CAT-5 cable, and plug it into the RJ45 connector for better connection effect.)

### 4 Notice Information

**(1) Switching on Main Power:**

After having finished the installation, make sure each unit is linked up well. turn on the main power, and then all the LCDs of each AR-12 unit will display the calendar and time.

**(2) Address Setting:**

- The original address of each AR-12 unit is "0".
- Preset the address for each unit from 1 to 8, and ensure the addresses are not dittoed.
- After finishing setting, come back to the time display. Press the Preset button of any of the linked AR-12 units, the LEDs of the corresponding Preset buttons in each unit will light up. That just means the link is OK.

**(3) Master/Slaver unit:**

- The internal system will automatically regard the unit 1 (address=1) as the Master, while the other units are regarded as Slavers.
- Only one AR-12 unit can be set as the Master, and user must ensure the preset addresses of each Slaver is exclusive and different from others.
- If the address is set as "0", the unit is out of link. And if user wants to use only one AR-12 unit, its address must be set as "1", thus the operation could be effective.

**(4) Recording:**

Before recording, please switch the menu to "Record Scene" or "Record Show".

**(5) Scene/Show Operating:**

- Connect an external DMX controller to the AR-12P unit, and then record the relevant Scene or Show through the LCD-display.
- **Note:** Don't press any of the Preset buttons or the OFF button during recording. Otherwise, the DMX signal may be in confusion.

**(6) Preset buttons 1-12:**

These 12 buttons (**Page1: 1-6 buttons, Page2: 7-12 buttons**) can be respectively preset in **Assign Button** function mode.

**(7) Programs and Assignment:**

Programs and Assignment can't be done until relevant recording is finished.

**(8) Receiving/Sending data:**

- If user wants to each unit has its different recorded data, please do as Step (5) ---- operating each AR-12 unit respectively.
- If user wants the units have the same data and assignment, please unplug the cable of the External DMX controller first.
- For the Receiving units, switch relevant menu to "**Receiving Data...**". And for the Sending units, switch relevant menu to "**Sending Data...**".
- Wait for about 3 minutes, when the sending is OK, all the Receiving units and Sending units will be restarted automatically.
- **Note:** Should there be something wrong has happened during signal receiving, relative AR-12 unit will show you **Warning** information on the LCD screen. In that case,

user must turn off the unit and send the data again.

**(9) Date, Time and Password settings:**

The Date, Time and Password settings of each AR-12 unit can be optionally done at any time as user's requirement.

## 5 Operation Guide

### 5.1 Time Mode

- (1) As soon as the AR-12 unit is powered on, LCD-display will show you like this:

Jan 01-MO 00 : 00 : 00
---------------------------

The "Jan 01-MO" means the Date and Day. The "00 : 00 : 00" just stands for the detailed current time. The calendar and time can be adjusted respectively in "**Set Date**" and "**Set Time**" menus under Setup mode.

- (2) In the Time Mode, press the Preset button, LCD-display will show you one of these possible following menus: ( 5 seconds later, it will return to the original time display )

S01+Null Fade: 00s
-----------------------

Sh01
------

P 01+Null Time:02s
-----------------------

- (3) Press OFF button, the LCD-display will show you:

Off Delay00s
-----------------

- (4) Press Master Dimmer Up/Down button, LCD will show you like the below:

Master: 255
----------------

The Master Dimmer Up/Down button can be used to adjust the Master Dimmer value from 000 to 255. Each tap will increase/decrease relevant value once.

**Note:** When Press one of the Preset 1-6 buttons, the Master Dimmer value will return to "255" level automatically.

- (5) If there is something wrong with the Address Setting, the Master unit (address=1) will show you Warning information on the LCD-display. In that case, user should check carefully, make sure relevant address is not set repeatedly.

### 5.2 Setup Mode

User must input correct **password** before entering the Setup Mode. If there is no password, just press YES to access Setup mode. When you enter a wrong password, the LCD will show the information of error. There are totally 12 menus in this Mode: Address, Set Date, Set Time, Set Password, Record Scene, Record Show, Edit Program, Assign Button, Set Off Delay, Send, Receive, and Program Clock.

- (1) **Address:**

Address
---------

- When in the Address menu, press YES button, LCD-display will show you:

Address <u>1</u>
---------------------

- Address can be changed from 0 to 8. Press UP/DOWN button can increase/decrease

relevant value once. Press YES button to confirm your operation, press No button to cancel or return to the previous menu.

## (2) Set Date:

- User can use UP/DOWN button to select the **Set Date** menu.

Set Date

- In this mode, press YES button once, LCD-display will show you one of these possible following menus:

Year: 2003	Month: 12	Date: 09	Day: Tuesday
---------------	--------------	-------------	-----------------

Press UP/DOWN button to switch between the **Year, Month, Date** and **Day** items .

- **Take the “Year” menu for example:**

when in the “Year” menu, press YES , LCD will show you like below:

Year:  
2003

A shortline will appear under the Year-number, that means user can adjust the Year-number available (from 2000 to 2099). Press the UP/DOWN button to change the value. Each tap will increase/decrease the value once. Press YES to confirm and press NO to cancel or return to the previous menu.

(Adjustment upon **Month, Date** and **Day** items are just like the above “Year” operation. Relevant adjustment ranges are as below:

**Month:** 01~12, **Date:** 01~31, **Day:** Monday~Sunday. )

## (3) Set Time:

- Use UP/DOWN button to select the Set Time menu.

Set Time

- In this mode, press YES button, LCD will then show you one of these possible menus:

Time Mode: 12-hour	Hour: 01	Minute: 01	Second: 01
-----------------------	-------------	---------------	---------------

Press UP/DOWN button to switch between these above menus. Then, press YES again to confirm your selection, use UP/DOWN button to change relevant value.

After your setting, user can press YES to confirm the operation, or press NO to cancel or return to the previous menu.

Relevant adjustment ranges upon these four items are as below:

**Time Mode:** “12-hour” pattern or “24-hour” pattern. **Hour:** 01~12 AM/PM (or 00~23), **Minute:** 00~59, **Second:** 00~59

## (4) Set Password:

The AR-12 product offers Password protection from unauthorized modifications of setup. If there is no password for the unit, user can enter further menus by pressing YES button. And if the unit has its password, user must input the right password before entrance.

The password can be changed or canceled as user’s requirement.

- Use UP/DOWN button to select the **Set Password** menu:

Set  
Password

- Press YES button to enter further menu. LCD will show you:

New Psw:  
\_

( Psw = Password )

- Preset 1-6 buttons can be used to set user's wanted Password (if user press YES button, that will cancel the original Password), and up to 6 digits can be input available. Press YES button, LCD shows:

Password  
change?

- Press YES button again to confirm your operation (press NO button to cancel and return to the previous menu), LCD then shows:

Password  
changed!

That just means your setting is OK. User can press YES or NO button to come out from the current menu.

#### (5) Record Scene:

- Use UP/DOWN button to select the **Record Scene** menu:

Record  
Scene

- Press YES button to enter further menu. LCD will show you like below:

Scene: 01  
Fade: 00s

- The Scene can be set within the range of 01-99 by pressing UP/DOWN button. Each tap will increase/ decrease relevant value once.
- Press NEXT button, the "shortline" will move to the "**Fade: 00s**" item as below :

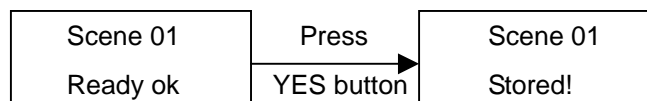
Scene: 01  
Fade: 00s

User can then change the Fade time by pressing UP/DOWN button. Each tap will increase/decrease relevant value once. Fade time can be set from 00 to 60 seconds.

- Press NO button can return to the previous menu. Press YES button, LCD will show:

Scene 01  
Ready

When there is an effective DMX signal sending to the AR-12 unit, LCD shows you "ok", user can then press YES button to confirm and store the **Scene** setting.



Press YES or NO button to come out from the current menu.

**(6) Record Show:**

- Use UP/DOWN button to select the **Record Show** menu:

Record  
Show

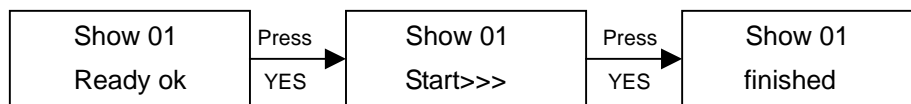
- Press YES button to enter further menu. LCD will show you like below:

Show: 01

- The Show can be set within the range of 01-12 by pressing UP/DOWN button. Each tap will increase/ decrease relevant value once.
- Press NO button can return to the previous menu. Press YES button, LCD will show:

Show 01  
Ready

- When there is an effective DMX signal sending to the AR-12 unit, LCD shows you “ok”, user can then press YES button to confirm and enter further menu display.



Press YES or NO button to come out from the current menu.

**(7) Edit Program:**

- Use UP/DOWN button to select the **Edit Program** menu:

Edit  
Program

- Press YES button to enter further menu. LCD will show you like below:

Prog: 01

- Programs can be set within the range of 01-12 by pressing UP/DOWN button. Each tap will increase/ decrease relevant value once.
- Press NO button can return to the previous menu. Press YES button, LCD will show:

Total: 01  
Time: 01s

In this current menu, press UP/DOWN button can change the “Total” value from 01 to 99, Each tap will increase/decrease the value once.

(Press NEXT button to select the “Time” item, then the “Time” value can be adjusted from 01-60 seconds by using the UP/DOWN button)

- Press YES button again, LCD will then show you:

Step: 01  
Scene: 01

In this current menu, press UP/DOWN button can change the “Step” value from 01 to 99, Each tap will increase/decrease the value once. (Press NEXT button to select the “Scene” item, then the Scene can be adjusted from 01-99 seconds by UP/DOWN button)

- Press YES button again, LCD will then show you:

Prog: 01  
Stored!

User can press YES or NO button to come out from this current menu.

**(8) Assign Button:**

- Use UP/DOWN button to select the **Assign Button** menu:

Assign  
Button

- Press YES button to enter further menu. Relevant items can be selected by using the NEXT button. The **Scene**, **Show** and **Prog** items are **displayed circularly** when pressing the UP/DOWN button:  
( Note: Butt.= Button, Prog=Program )

Butt. :xx  
S<sub>xx</sub>+Null

Butt. :xx  
P<sub>xx</sub>+Null

Butt. :xx  
Sh<sub>xx</sub>

- **Button** position can be adjusted by UP/DOWN button within the range of 01-12. Value adjustment upon **Scene**, **Show** and **Program** items are just like the **Button** item. Relevant adjustment ranges are as below:

**S01-99** - Scene 01-99; **Sh01-12** – Show 01-12; **P01-12** – Program 01-12; Null – Empty.

Press YES to confirm. Press NO to cancel and return to the previous menu.

- When having finished setting, press YES button, LCD-display will show you:

Button  
Stored!

User press YES or NO button to come out from this current menu.

**(9) Set Off Delay:**

- Use UP/DOWN button to select the **Set Off Delay** menu:

Set Off  
Delay

- Press YES button to go to the further menu, LCD-display will show you like below:

Off  
Delay00s

The **Delay** time can be set by UP/DOWN button from 00 second to 60 seconds. Press **YES** button to **confirm** and return to the previous menu. Press **NO** button will **cancel** your operation and return to the previous menu.

**(10) Send:**

- Use UP/DOWN button to select the **Send** menu:

Send

- Press YES button, LCD-display will show you like below:

Sending  
Data...

About 3 minutes later, the Sending will be finished. And the unit restarts to its original LCD-display:

Dec09-Tu  
11: 35: 03

**(11) Receive:**

- Before entering this Receiving menu, user should take off the connected DMX table from the AR-12P unit.
- Use UP/DOWN button to select the **Receive** menu:

Receive

- Press YES button, LCD-display will show you like below:

Receiving  
Data...

- If the Receiving is OK, the unit will restart to its original LCD-display. While if there is something wrong with the unit, LCD will shows:

Receive  
error!

**Warning!!**

Do not enter this **Receive** menu carelessly. Otherwise, relevant data will be erased totally, no matter the Receiving is OK or not! This **Receive** menu is only for the use of receiving data between the connected AR-12 units.

**(12) Program Clock:**

- Use UP/DOWN button to select the **Program Clock** menu:

Program  
Clock

- Press YES button to enter further menu. And use NEXT button to select the **7 Days**, **5 Days** or **Weekly** pattern item. These three menus below can be displayed circularly by pressing the UP/DOWN buttons:

Butt. : x x  
7 Days

Butt. : x x  
5 Days

Butt. : x x  
Weekly

- Relevant **Button** position can be adjusted by UP/DOWN button within the range of 01-12. And for the **7 Days**, **5 Days** and **Weekly** items, the following must be concerned:

**7 Days:** from Monday to Sunday available.

**5 Days:** from Monday to Friday available.

**Weekly:** some day among a week available. ( Monday, Tuesday, ...or Sunday)

Press YES to confirm. Press NO to cancel and return to the previous menu.

- Just take the **Weekly** item for example: When user presses YES to the further menu,

LCD will show you like this:

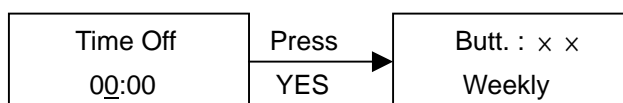
Weekly  
Monday

- Use UP/DOWN button to adjust and select the day from Monday to Sunday, press YES button to confirm and enter further menu, LCD shows:

Time On  
00:00

Press UP/DOWN button to set your desired time. The Hour and Minute set can be switched by pressing NEXT button. ( Hour: 00-23 hours, Minute: 00-59 minutes )

- User press YES button, LCD will then show you the **Time Off** menu. The time can be set just as same as the “Time On” item. Press YES button to come out from the current display.



( if the Time Off is set as " 00:00" , this setting will be of no effect. )

**NOTE:** The settings in **Program Clock** can be only effective when in the **Time mode**. In other modes, this will be of no effect. If the “**Time On**” and “**Time Off**” are set with the same value, the settings will also be noneffective. User would better to set the Time for only one unit, otherwise, operation will be in confusion.

### (13) Exit:

During your operation, LCD-display may show you:

Want to  
exit ?

Press YES button to exit, or press NO button to return to the previous menu.

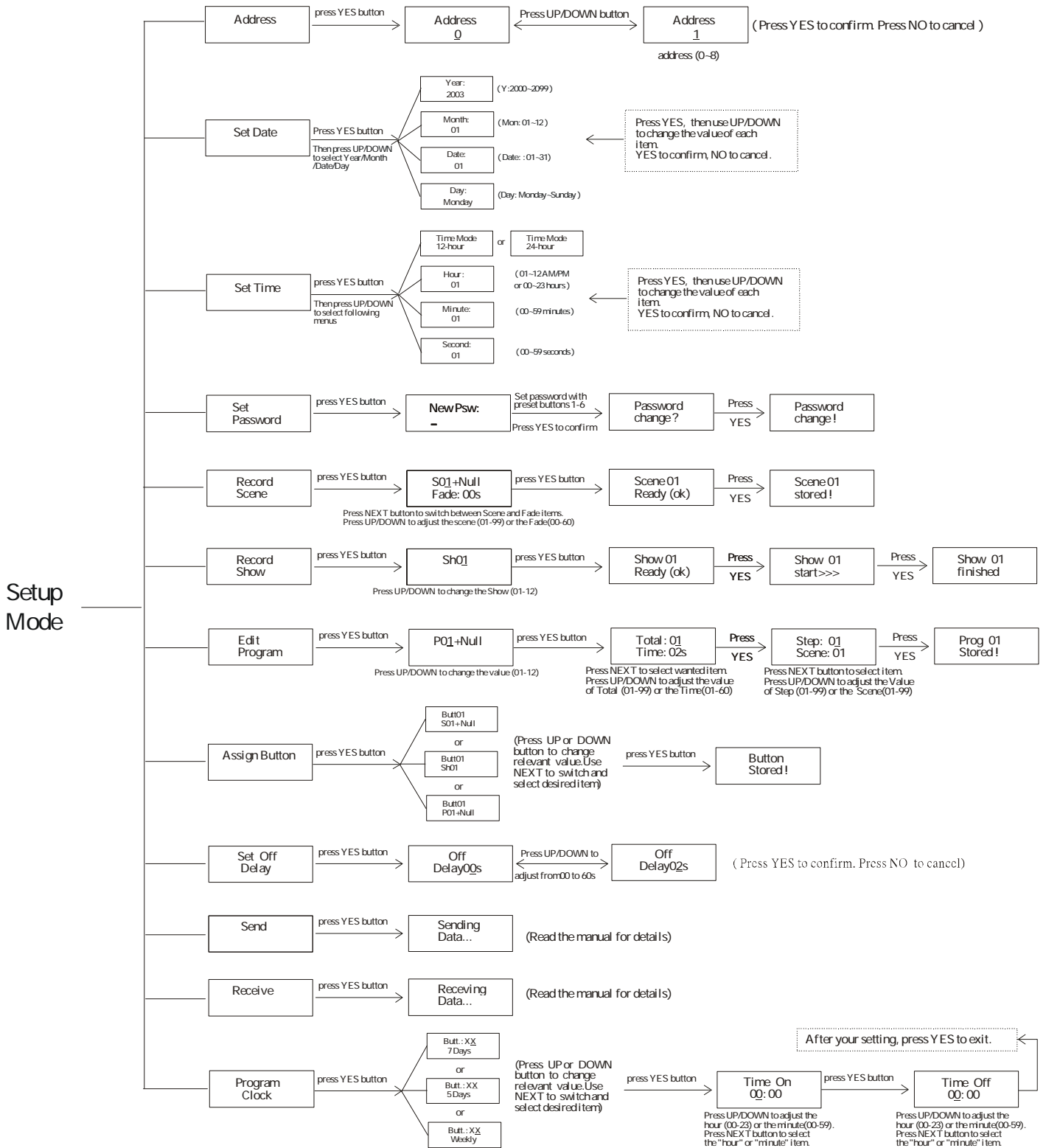
## 6 Specifications

- Power input.....DC 12-15V 150mA
- DMX IN / OUT.....Standard RJ45 Connector
- LCD-display.....2x8 characters
- Dimensions.....224x104x76mm
- Weight.....approx 1.2 kg

**(Please turn over to Page 10 to see the Appendix)**

## Appendix: (Setup menu structure)

These **Address, Set Date, ... Program Clock** menus can be selected by using the UP/DOWN button.



## INSTRUCTION

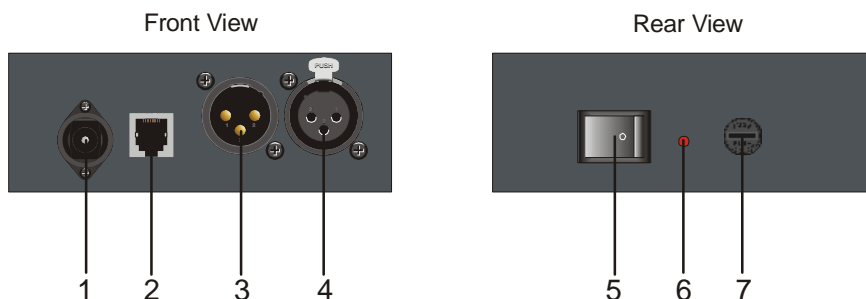
This product AR-12P ARCHI Recorder is specially designed for combination use with the AP-12 unit(s). It offers main power for the AP-12, and up to 8 sets of AP-12 units can be linked together for user's application. DMX input and DMX output functions are also provided by this AR-12P . User can get detailed information through reading this instruction manual carefully.

### Warning

- Keep the unit dry, do not expose it to water or high levels of humid.
- Do not open this unit, there is no user serviceable part inside.
- Turn off the power if not using this unit for a long time.
- Any strong shocks or vibration may result in malfunction.
- Do not attempt to dismantle or modify the unit.
- This unit must only be operated by adults, do not allow children to play with it.

- ☞ **When unpacking**, please check the unit is not damaged. If something wrong has happened to this product, contact the local dealer immediately.
- ☞ **All rights reserved.** No part of this manual included with this product can be reproduced or transmitted in any form, by any means for any purpose without authorized permission.

## PANEL VIEW



1. **Power input:** to input main power via this connector.
2. **RJ45 connector:** to connect with an AR-12 unit via this connector.
3. **DMX input:** this connector is used to input DMX signal.
4. **DMX output:** to send the DMX signal to a DMX pack via this connector.
5. **Power switch:** used to turn on or off the main power.
6. **Power indicator:** when the unit is powered “on”, this indicator is lit.
7. **Fuse holder:** it is for fuse installation.

## SPECIFICATIONS

Power input.....	AC/DC 12-15V 1500mA max
Fuse.....	F2A 250V 5×20mm
Dimensions.....	110×74×40mm
Weight.....	approx 0.2kg