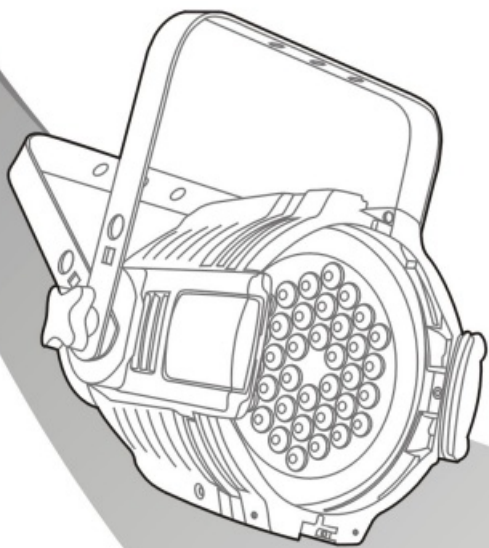


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1 PRODUCT (GENERAL)

- 1.1 PRODUCT INTRODUCTION
- 1.2 PRODUCT FEATURES
- 1.3 TECHNICAL SPECIFICATIONS
- 1.4 PHOTOMETRIC DATA
- 1.5 SAFETY WARNING

1.1 PRODUCT INTRODUCTION

This product is designed for indoor or outdoor use. Suitable applications include wash or effect lighting for architectural, stage or nightclub applications. This product can also be installed for use in signage and advertising using the dynamic functions available with DMX512 control. Direct input of DMX512 signal allows the units to be controlled from any DMX512 controller. This product can be operated as a single unit or in multiple units for large applications.

The specially developed controller that allows the product to be controlled independent of the DMX512 controller enables the user to create and edit a wide range of custom programs. All programs can be touch-button displayed or scheduled to START and END at scheduled times. When programs have been created or edited in the controller, it is also possible to trigger these programs using the DMX IN function when connected to a DMX512 controller.

1.2 PRODUCT FEATURES

LED FIXTURE

- * RGB Dimmer 0-100%
- * Strobe
- * Automatic programs
- * IP65 protection rating
- * LED display
- * Display control 'lock-out'
- * Direct DMX512 input
- * Independant ID address
- * Lightweight aluminium casing

PIX CONTROLLER

- * RGB Dimmer 0-100%
- * Strobe
- * Clock & Timer
- * Automatic programs (wash & effect)
- * Custom programs
- * Program Schedule
- * LCD display
- * Display control 'lock-out'
- * Direct DMX512 input
- * Lightweight plastic casing

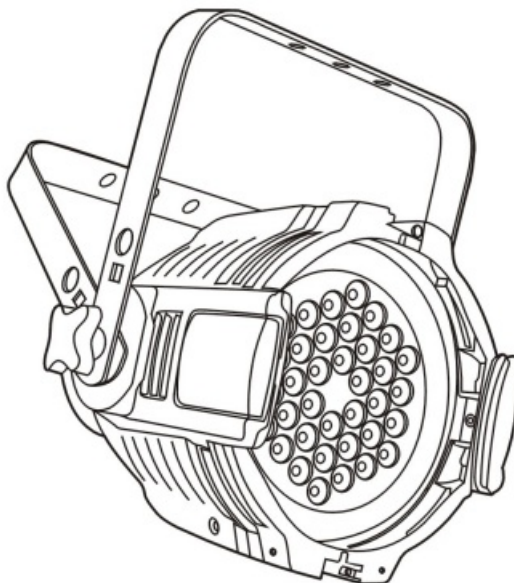
1.3 TECHNICAL SPECIFICATIONS

LED MODULE

LED MODULE:	
Voltage	90~250V...50/60Hz
Rated Power	65W
IP	IP65 protection rating
LED/Unit	36pcs (12 x RED / 12 x GREEN / 12 x BLUE)
Output/LED	1W
Environment Temperature	-20°C~40°C
LED Beam Angle	15° (30° Optional)
Cooling	Direct air convection
Dimensions	340 x 310 x 220mm
Weight	5Kg

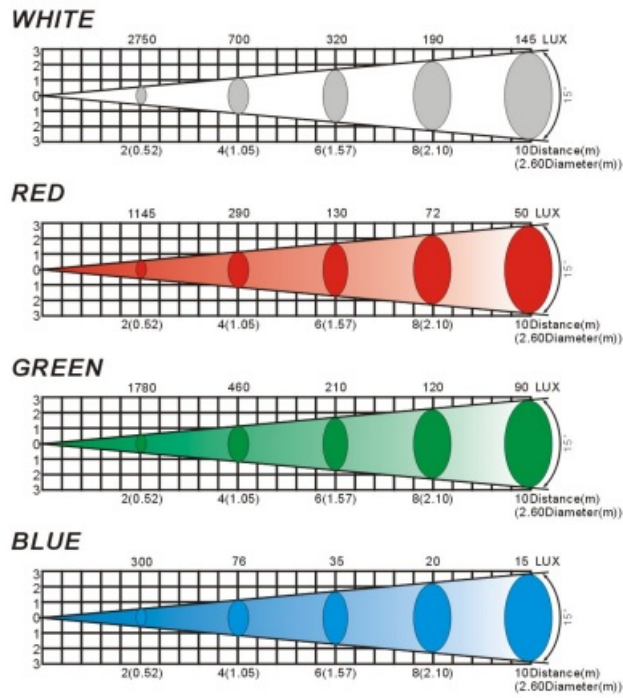
CONTROLLER

CONTROLLER:	
Voltage	220~240V, 50/60Hz.....100~120V, 50/60Hz
Rated Power	1.5W
IP	IP33 protection rating
Dimensions	180 x 125 x 49mm
Weight	0.7Kg



1.4 PHOTOMETRIC DATA

PHOTOMETRIC DATA



1.5 SAFETY WARNING

IMPORTANT

**[ALWAYS READ THE USER MANUAL BEFORE OPERATION.]
[PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE
PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR
AREA.]**

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

ATTENTION



- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

2 INSTALLATION

- 2.1 MOUNTING
- 2.2 POWER CONNECTIONS
- 2.3 SETTING UP WITH A DMX512 CONTROLLER
 - 2.3-1 *DMX512 ADDRESSING WITHOUT ID ADDRESSING*
 - 2.3-2 *DMX512 ADDRESSING WITH ID ADDRESS*
- 2.4 SETTING UP WITH THE PiX CONTROLLER
 - 2.4-1 *SINGLE ROW APPLICATION*
 - 2.4-2 *STANDARD BLOCK APPLICATION*
 - 2.4-3 *REPEAT ROW BLOCK APPLICATION*
- 2.5 OPERATION: DMX512 Vs PiX CONTROLLER

2.1 MOUNTING

HANGING

The LED PAR can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit a safety cable should also be used.

UPRIGHT

The LED PAR can be mounted in an upright or sitting position using the supporting brackets.



The LED MODULE can be mounted at any angle and in any position. It is possible to further adjust the angle of the LED MODULE using the two adjustment knobs located on the side of the fixture.

2.2 POWER CONNECTIONS

@ 220V: 40 units may be connected in series

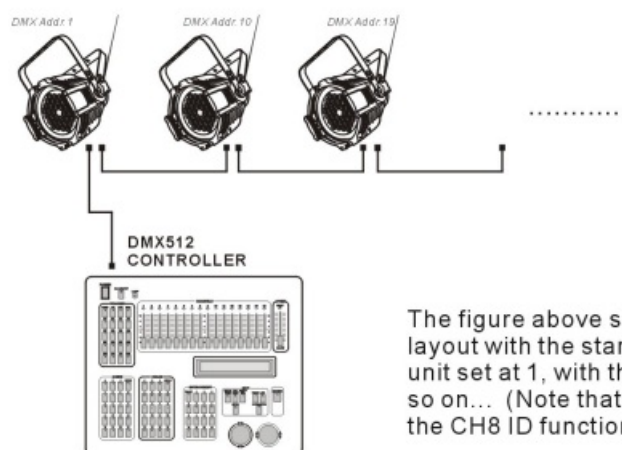
@ 120V: 20 units may be connected in series

2.3 SETTING UP WITH A DMX512 CONTROLLER

2.3-1 DMX512 ADDRESSING WITHOUT ID ADDRESSING

- Connect the DMX512 controller to the units in series.
- Each unit has 9 DMX channels so the DMX Addresses should increase by increments of 9 (e.g. 1,10,19,28...)
- The ID address has not been set so therefore when using the controller CH8 must be inactive (CH8=0).
- Each DMX Address may be used as many times as required.
- Any DMX address in the range from 001 to 500 may be used.

Example:

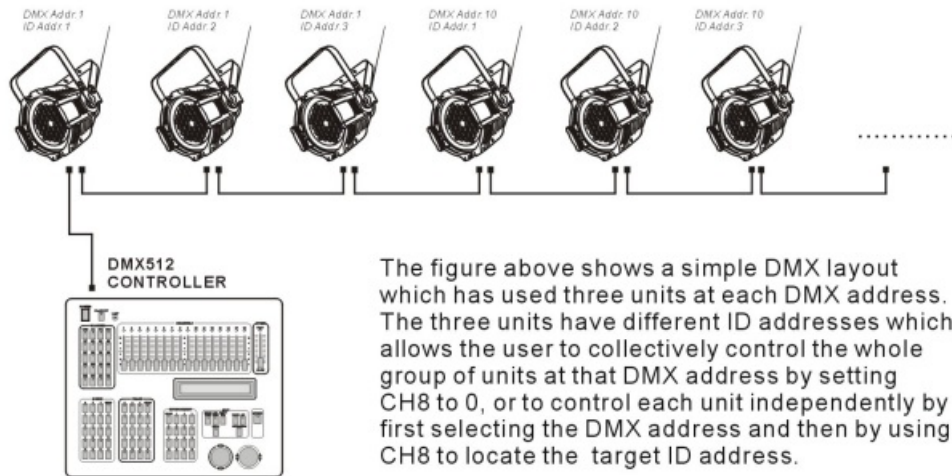


The figure above shows a simple DMX512 layout with the starting address of the first unit set at 1, with the second set at 10 and so on... (Note that when used in this way, the CH8 ID function must be inactive (CH8=0))

2.3-2 DMX512 ADDRESSING WITH ID ADDRESS

- Connect the DMX512 controller to the units in series
- Each unit has 9 DMX channels so the DMX Addresses should increase by increments of 9 (e.g. 1,10,19,28...)
- Each DMX Address may be used as many times as required.
- Any DMX address in the range from 001 to 500 may be used.
- Each DMX address may carry up to 66 separate ID addresses.
- **【ID】** should be set in the menu on each unit in ascending values (i.e. 1,2,3...)
- ID addresses are accessible from Ch8 on the DMX512 controller.

Example:

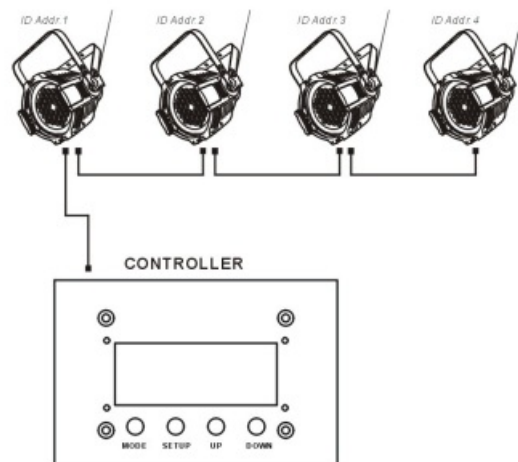


2.4 SETTING UP WITH THE PiX CONTROLLER

2.4-1 SINGLE ROW APPLICATION

- Connect the fixtures to the PIXCONTROLLER in series.
- ID Address should be set in the **[Id]** menu on each unit in ascending values (i.e. 1,2,3...Not required for **[WASH]** programs).
- When using the PIX CONTROLLER with the fixtures there is no need to set the DMX address.
- When using the **[Effect]** programs it is important to set the **[Range]** of fixtures in the **[Settings]** menu of the PIX CONTROLLER.

Example:

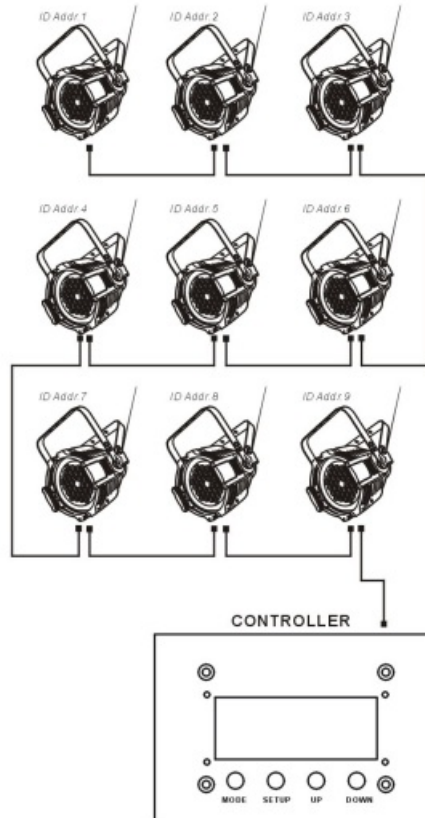


In the figure above the PIX controller is connected in series to 4 units with corresponding ID addresses from 1 to 4. In order to activate the **[Effect]** programs in the PIX CONTROLLER, the **[Range]** must be set to **[004]** in the **[Settings]** menu of the PIX CONTROLLER.

2.4-2 STANDARD BLOCK APPLICATION

- Connect the fixtures to the PiX CONTROLLER in series in the direction that is required.
- ID Address should be set in the **【Id】** menu on each unit in ascending values (i.e. 1,2,3...Not required for **【WASH】** programs).
- When using the **【Effect】** programs it is important to set the **【Range】** of fixtures in the **【Settings】** menu of the PiX CONTROLLER.

Example:

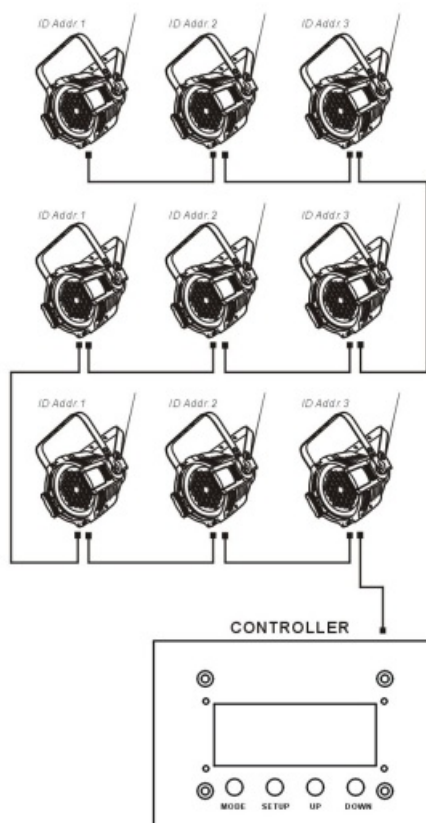


In the figure above the PiX controller is connected in series to 9 units with corresponding ID addresses from 1 to 9. In order to activate the **【Effect】** programs in the PiX CONTROLLER, the **【Range】** must be set to **【009】** in the **【Settings】** menu of the PiX CONTROLLER. (Note: it is possible to create different kinds of effects by changing the direction and position of ID Addresses)

2.4-3 REPEAT ROW BLOCK APPLICATION

- Connect the fixtures to the PIX CONTROLLER in series.
- **【ID Address】** should be set in the **【Id】** menu on each unit in ascending order with each row repeated (Not required for **【Wash】** programs).
- When using the PRO-a CONTROLLER with the fixtures there is no need to set the DMX address.
- When using the **【Effect】** programs it is important to set the **【Range】** of fixtures in the **【Settings】** menu of the Pix CONTROLLER.

Example:



In the figure above the PIX controller is connected in series to 9 fixtures with each row comprising of 3 fixtures with corresponding ID addresses from 1 to 3. Each row is repeated so that the ID addresses appear the same as the first row. In order to activate the **【Effect】** programs in the PIX CONTROLLER, the **【Range】** must be set to **【003】** in the **【Settings】** menu of the PIX CONTROLLER.

2.5 OPERATION: DMX512 Vs PiX CONTROLLER

		OPERATION WITH ADMX512 CONTROLLER		
		AVAILABLE FUNCTIONS	BENEFITS	DRAWBACKS
DMX512 ADDRESS	X	Basic 【WASH】 Programming	No need to set up DMX Address or ID Address	Must locate previously stored DMX Address
ID ADDRESS	X			
DMX512 ADDRESS	✓	Advanced 【WASH】 & 【EFFECT】 programming	Units are fully controlled from DMX512 controller	● Programming requires many DMX channels
ID ADDRESS	X			
DMX512 ADDRESS	X	Basic 【WASH】 programming	● DMX Address ● ID address allows for less DMX channels when programming*	● All ID addresses must be set
ID ADDRESS	✓			
DMX512 ADDRESS	✓	Advanced 【WASH】 & 【EFFECT】 programming	● Advanced fixture mapping	● All ID addresses must be set
ID ADDRESS	✓			

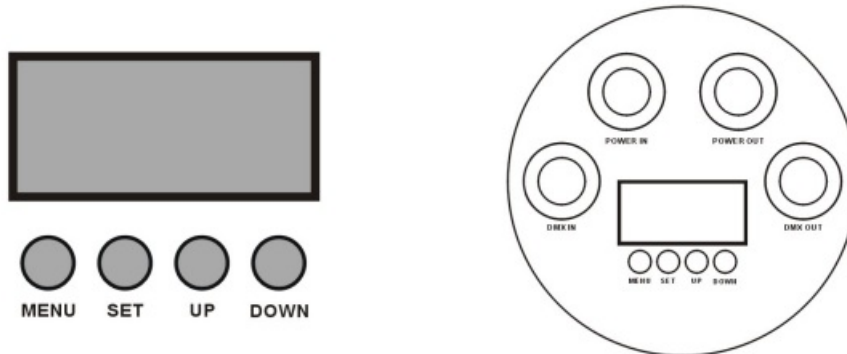
		OPERATION WITH THE PiX CONTROLLER		
		AVAILABLE FUNCTIONS	BENEFITS	DRAWBACKS
DMX512 ADDRESS	X	Play 【WASH】 auto programs, Basic 【CUSTOM】 programming & Schedule play	No need to set up DMX Address or ID Address	Only control of all units at the same time
ID ADDRESS	X			
DMX512 ADDRESS	✓	Play 【WASH】 auto programs, Basic 【CUSTOM】 programming & Schedule play	DMX address not used	Only control of all units at the same time
ID ADDRESS	X			
DMX512 ADDRESS	X	Play 【WASH】 & 【EFFECT】 auto programs, Advanced 【CUSTOM】 programming & Schedule play	● DMX Address not used ● Control speed and time of all 【WASH】 & 【EFFECT】 programs ● Create powerful 【CUSTOM】 programs ● Schedule play ● Trigger auto programs with DMX IN	All ID Addresses must be set
ID ADDRESS	✓			
DMX512 ADDRESS	✓	Play 【WASH】 & 【EFFECT】 auto programs, Advanced 【CUSTOM】 programming & Schedule play	● DMX Address not used ● Control speed and time of all 【WASH】 & 【EFFECT】 programs ● Create powerful 【CUSTOM】 programs ● Schedule play ● Trigger auto programs with DMX IN	All ID Addresses must be set
ID ADDRESS	✓			

3 DISPLAY PANEL OPERATION

- 3.1 BASIC
- 3.2 MENU
- 3.3 ACTIVATING AUTO PROGRAMS
- 3.4 DMX512 SETTINGS
- 3.5 ID ADDRESS
- 3.6 EDITING CUSTOM PROGRAMS
- 3.7 SPECIAL SETTINGS
- 3.8 ACTIVATE THE PASSWORD
- 3.9 RGB CHANNEL MODEL

3.1 BASIC

The LED fixture is mounted with a LCD display and 4 control buttons.



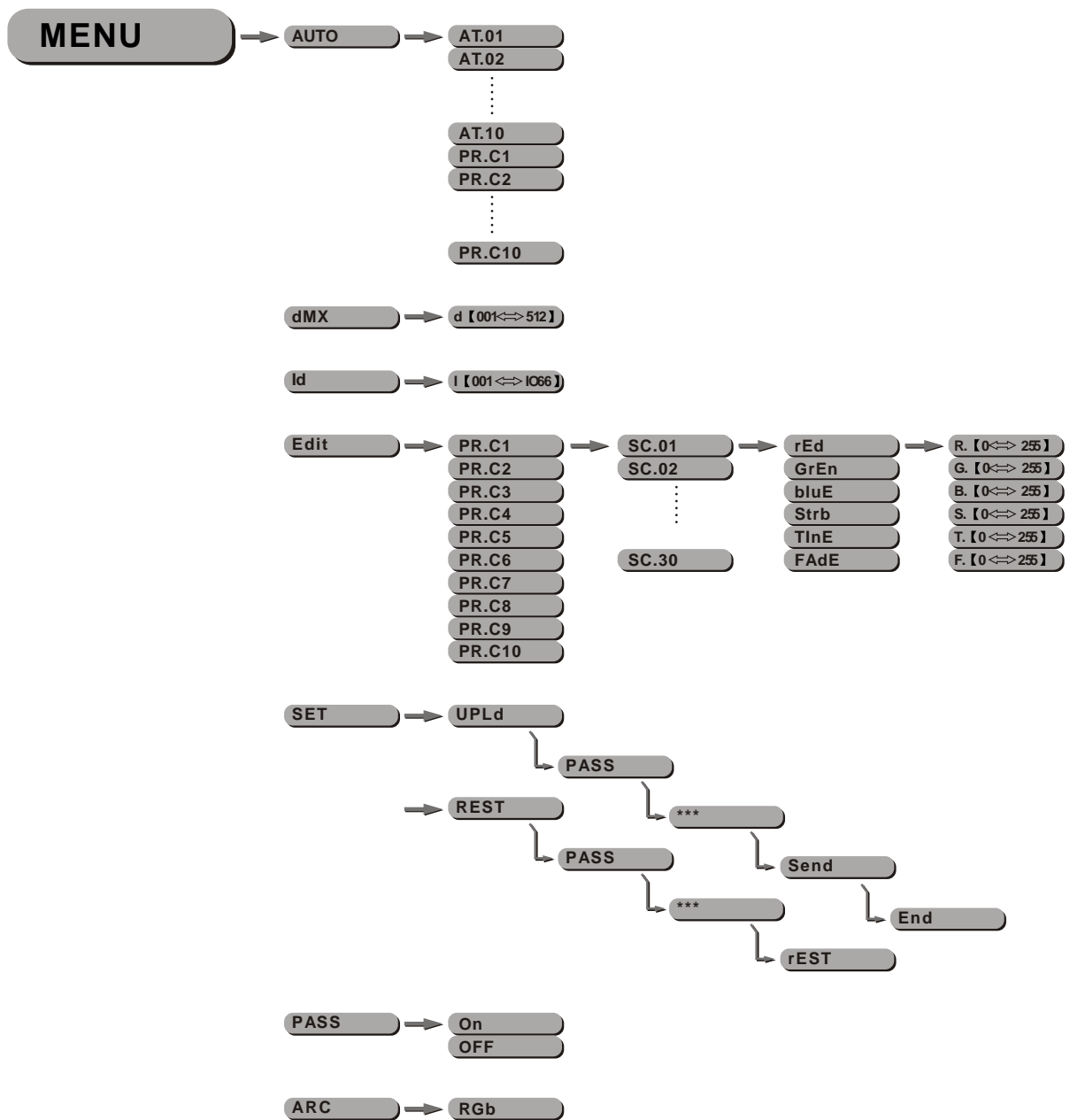
【MENU】 scroll through the main menu or return to the main menu

【 SET 】 enter the currently selected menu or confirm the current function value

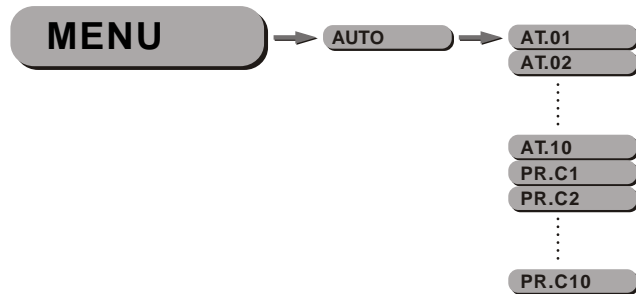
【 UP 】 scroll 'UP' through the menu list or increase the value of the current function

【DOWN】 scroll 'DOWN' through the menu list or decrease the value of the current function

3.2 MENU



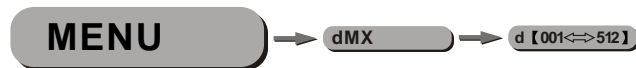
3.3 ACTIVATING AUTO PROGRAMS



【Auto】

- Select the target [Auto] program and press **【SET】**
- Programs **【AT.01】** to **【AT.10】** are fully pre-programmed and will not be altered by changes in **【Edit】** mode
- Programs **【PR.C1】** to **【PR.10】** are fully pre-programmed and can be edited in **【Edit】** mode

3.4 DMX512 SETTINGS



【dMX】

- Enter the **【dMX】** mode to set the DMX ADDRESS.

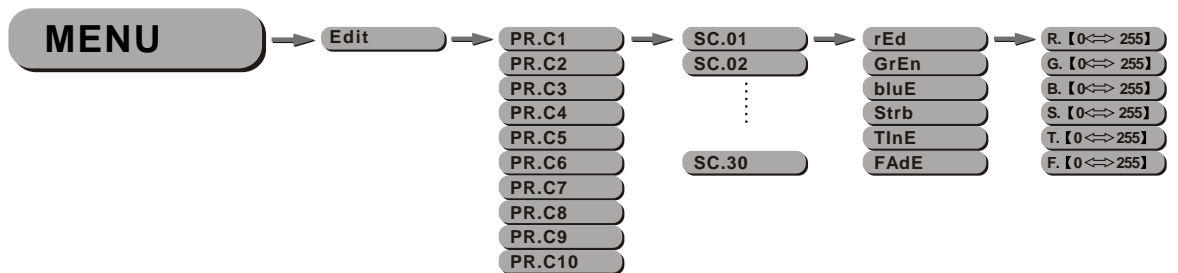
3.5 ID ADDRESS



【Id】

- Enter the **【Id】** mode to set the ID ADDRESS

3.6 EDITING CUSTOM PROGRAMS



【Edit】

- Enter the **【Edit】** mode to edit the custom programs **【PR.C1】** to **【PR.10】**
- Each custom program has 30 steps that can be edited
- Each step allows the creation of a scene using RED **【rED】**, GREEN **【GrEn】**, BLUE **【bLUE】**, STROBE **【StrB】**, TIME **【TinE】** & FADE **【FAdE】**

4 USING A DMX512 CONTROLLER

- 4.1 BASIC ADDRESSING
- 4.2 CHANNEL ASSIGNMENT
- 4.3 BASIC INSTRUCTIONS FOR DMX512 OPERATION

4.1 BASIC ADDRESSING

- Connect all of the units in series using standard DMX512 signal cable or the IP65 rated cable provided.
- Set the DMX512 address in the **[DMX]** menu.
- It is possible to have the same DMX address or independent addresses for each fixture.

4.2 CHANNEL ASSIGNMENT

DMX MODE

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	RED (or STEP TIME when PR.01-PR.10 is activated)
3	0 ↔ 255	GREEN (or FADE TIME when PR.01-PR.10 is activated)
4	0 ↔ 255	BLUE
5	0 ↔ 10	NO FUNCTION
	11 ↔ 34	RED
	35 ↔ 69	GREEN
	70 ↔ 104	BLUE
	105 ↔ 139	YELLOW
	140 ↔ 174	PURPLE
	175 ↔ 209	CYAN
	210 ↔ 255	WHITE
6	0 ↔ 9	NO FUNCTION
	10 ↔ 63	STROBE 1
	64 ↔ 127	STROBE 2
	128 ↔ 191	STROBE 3
	192 ↔ 255	STROBE 4
7	0 ↔ 9	NO FUNCTION
	10 ↔ 19	AT. 01 (AUTO 01)
	20 ↔ 29	AT. 02
	30 ↔ 39	AT. 03
	40 ↔ 49	AT. 04
	50 ↔ 59	AT. 05
	60 ↔ 69	AT. 06
	70 ↔ 79	AT. 07
	80 ↔ 89	AT. 08
	90 ↔ 99	AT. 09

CHANNEL	VALUE	FUNCTION
7	100 ↔ 109	AT. 101. (AT.01 to AT.09 cycle 5min each AUTO mode)
	110 ↔ 119	PR.C1 (CUSTOM PROGRAM1)
	120 ↔ 129	PR.C2
	130 ↔ 139	PR.C3
	140 ↔ 149	PR.C4
	150 ↔ 159	PR.C5
	160 ↔ 169	PR.C6
	170 ↔ 179	PR.C7
	180 ↔ 189	PR.C8
	190 ↔ 199	PR.C9
	200 ↔ 255	PR.10
	8	
0 ↔ 9		ID1-ID66
10 ↔ 19		ID1
20 ↔ 29		ID2
30 ↔ 39		ID3
40 ↔ 49		ID4
50 ↔ 59		ID5
60 ↔ 69		ID6
70 ↔ 79		ID7
80 ↔ 89		ID8
90 ↔ 99		ID9
100 ↔ 109		ID10
110 ↔ 119		ID11
120 ↔ 129		ID12
130 ↔ 139		ID13
140 ↔ 149		ID14
150 ↔ 159		ID15
160 ↔ 169		ID16
170 ↔ 179		ID17
180 ↔ 189		ID18
190 ↔ 199		ID19
200 ↔ 209		ID20
210		ID21
211		ID22
212		ID23
213		ID24
214		ID25
215		ID26
216		ID27
217		ID28
218		ID29
219	ID30	

CHANNEL	VALUE	FUNCTION
8	220	ID31
	221	ID32
	222	ID33
	223	ID34
	224	ID35
	225	ID36
	226	ID37
	227	ID38
	228	ID39
	229	ID40
	230	ID41
	231	ID42
	232	ID43
	233	ID44
	234	ID45
	235	ID46
	236	ID47
	237	ID48
	238	ID49
	239	ID50
	240	ID51
	241	ID52
	242	ID53
	243	ID54
	244	ID55
	245	ID56
246	ID57	
247	ID58	
248	ID59	
249	ID60	
250	ID61	
251	ID62	
252	ID63	
253	ID64	
254	ID65	
255	ID66	
9	0↔250	CH1, CH2, CH3 & CH4 INSTANT FADERRESPONSE
	251↔255	CH1, CH2, CH3 & CH4 DELAY FADERRESPONSE

4.3 BASIC INSTRUCTIONS FOR DMX512 OPERATION

MASTER DIMMER

- CH1 controls the intensity of the currently projected color
- When the slider is at the highest position (255) the intensity of the output is the maximum

RED, GREEN & BLUE COLOR SELECTION

- CH2, CH3 & CH4 control the intensity ratio of each of the RED, GREEN & BLUE LEDs.
- When the slider is at the highest position (255) the intensity of the color is the maximum.
- CH2, CH3 & CH4 can be combined together to create over 16 million colors.
- CH2, CH3 & CH4 have priority over CH4, CH5, CH6 & CH7

COLOR MACROS

- CH5 selects the required COLOR MACRO
- CH5 has priority over CH2, CH3 and CH4
- CH1 is used to control the intensity of the COLOR MACRO

STROBE

- CH 6 controls the strobe of CH1 to CH5
- Strobe 1 is with RGB in-step
- Strobe 2 is with RGB out-step
- Strobe 3 is a pulse strobe (slow on/fast off)
- Strobe 4 is a pulse strobe (fast on/slow off)

ID ADDRESS SELECTION

- CH8 is used to select the target ID address.
- Each independent DMX address may have upto 66 independent ID addresses.
- An ID address of 0 will activate all ID address locations.

AUTO

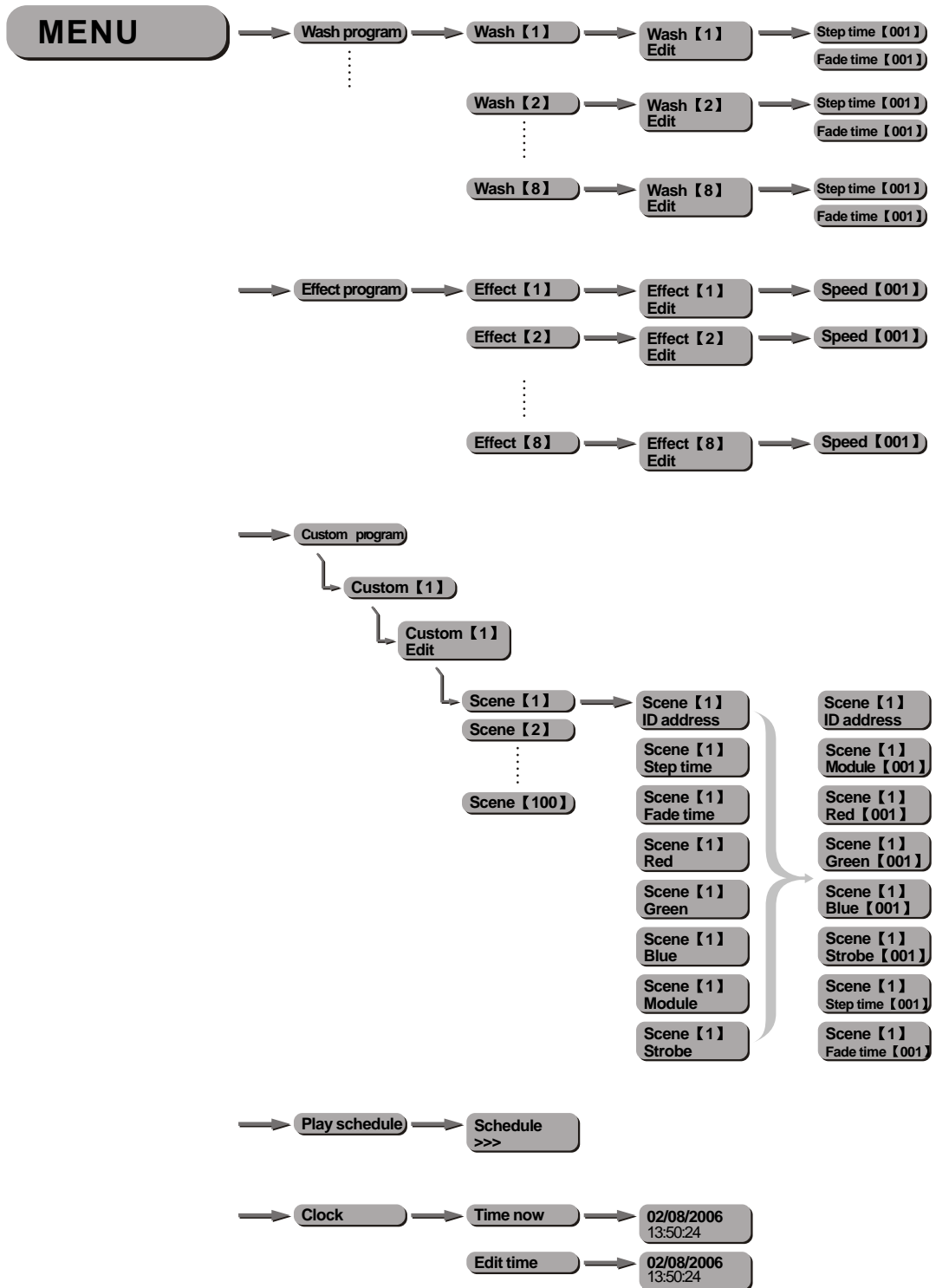
- CH7 selects the preset AUTO programs AT.01-AT10 or the custom AUTO programs PR.C1-PR.10
- When activating the custom AUTO programs PR.C1 to PR.10 then it is possible to control the STEP TIME and FADE TIME using CH2 and CH3 respectively.

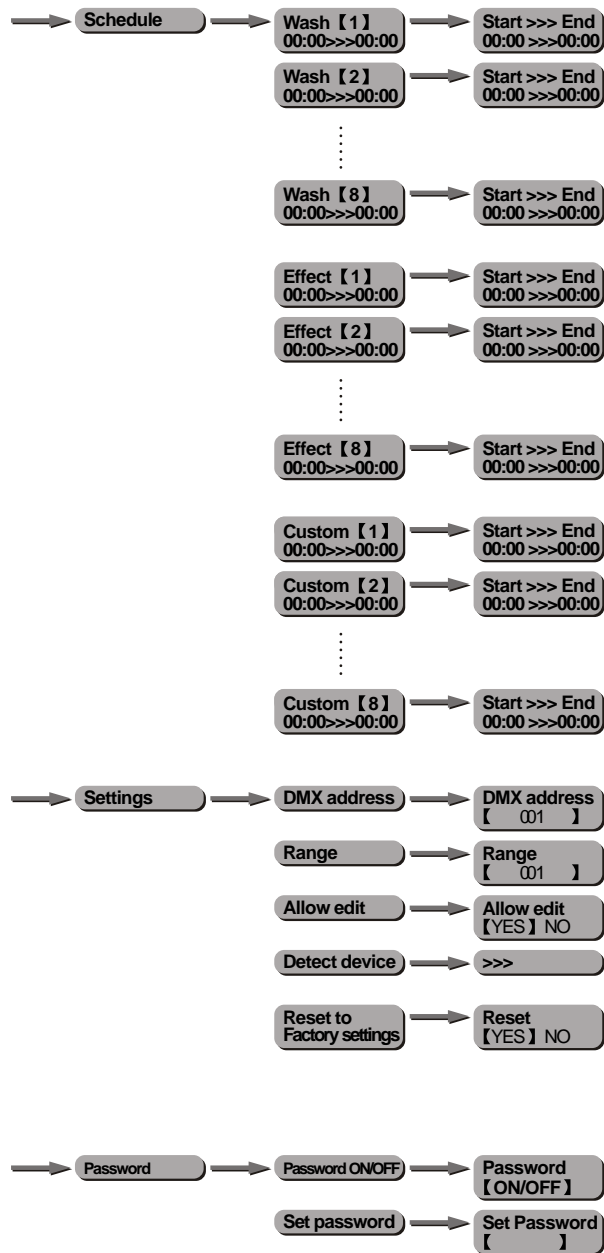
CH9 is used to select whether the unit operates with an instant response to the DMX fader or whether there is a preset delay response.

5 USING THE CONTROLLER

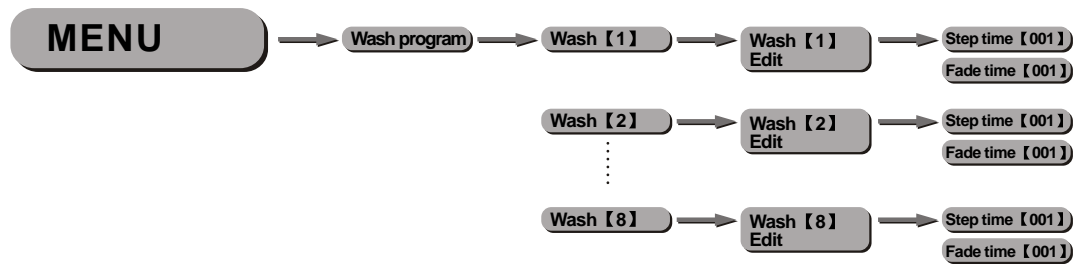
- 5.1 MENU
- 5.2 WASH PROGRAM
- 5.3 EFFECT PROGRAM
- 5.4 CUSTOM PROGRAM
- 5.5 PLAY SCHEDULE
- 5.6 CLOCK
- 5.7 SCHEDULE
- 5.8 SETTINGS
- 5.9 ACTIVATE THE PASSWORD
- 5.10 PiX CONTROLLER EXTERNAL
CONTROL VIA DMX512

5.1 MENU





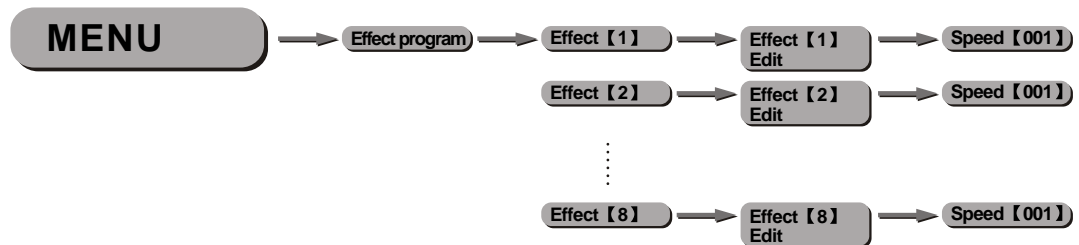
5.2 WASH PROGRAM



【Wash】

- Select from the eight **【Wash】** programs and instantly play
- When **【Edit】** is allowed in [Settings] it is possible to set the **【Step time】** and **【Fade time】**
- The unit of **【Step time】** is 5 seconds and can be adjusted from 1 to 255
- The unit of **【Fade time】** is 5 seconds and can be adjusted from 1 to 255

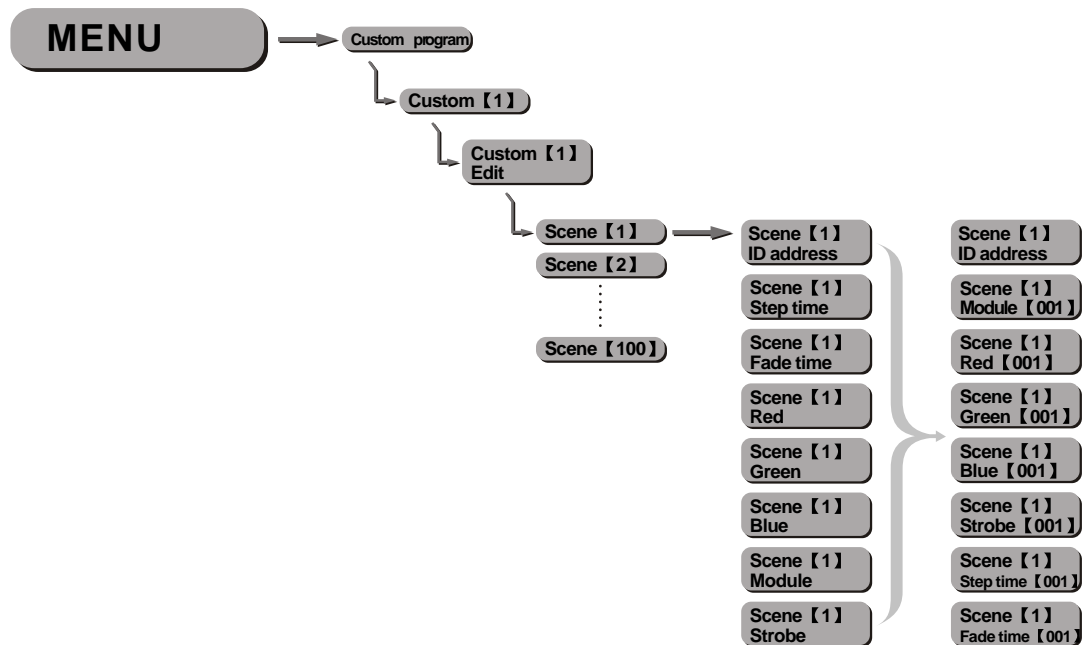
5.3 EFFECT PROGRAM



【Effect】

- Select from the eight **【Effect】** programs and instantly play
- When **【Edit】** is allowed in **【Settings】** it is possible to set the **【Speed】**
- The **【Speed】** of the **【Effect】** can be adjusted from 1 to 255

5.4 CUSTOM PROGRAM



【 Custom 】

- Select from the eight **【 Custom 】** programs and instantly play
- When **【 Edit 】** is allowed in **【 Settings 】** it is possible to enter the edit section

【 Scene 】

- Select from 100 scenes to create or edit
- Scenes that are not required should have the **【 Step time 】** set as 0

【 ID address 】

- Select the ID address of the target unit
- Set the ID address as 0 to include all ID addresses
- ID address action from previous steps is stored until changed allowing for combination colors/effects using different ID addresses

【 Module 】

- Select the [Module] to be active:
 0=#1 #2 #3
 1=#1
 2=#2
 3=#3
 4=#1 #2
 5=#2 #3
 6=#1 #3

【 Red 】 , 【 Green 】 & 【 Blue 】

- Combine RED, GREEN & Blue to create an infinite range of colors (0-255)

【 Strobe 】

- Select the strobe speed from 0-20Hz

【 Step time 】

- Select the **【 Step time 】** of the current scene
- The unit of **【 Step time 】** is 0.1s for the range 0-10 and 1 sec for the range 11-255

【 Fade time 】

- Select the [Fade time] of the current scene
- The unit of [Fade time] is 1 second and can be adjusted from 0 to 255

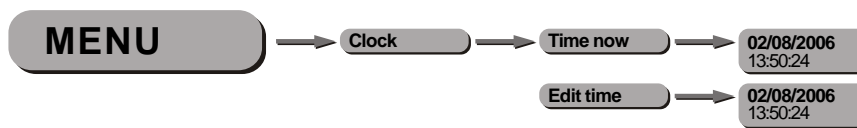
5.5 PLAY SCHEDULE



【Schedule】

- Activate this menu in order to play the schedule

5.6 CLOCK



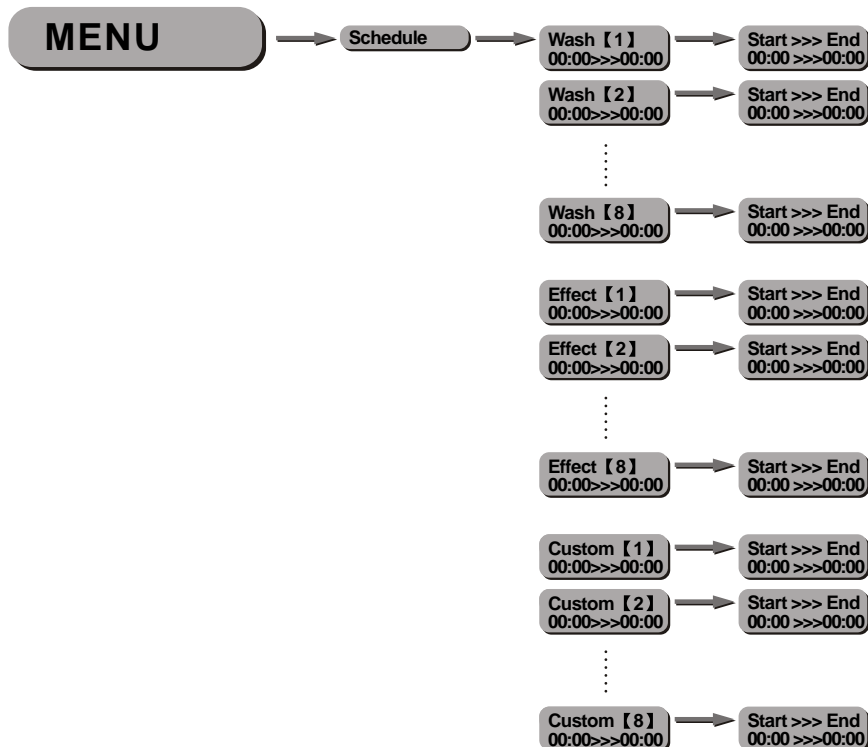
【Time now】

- Enter this function to view the current time.

【Edit time】

- Enter this menu to edit the date and time.

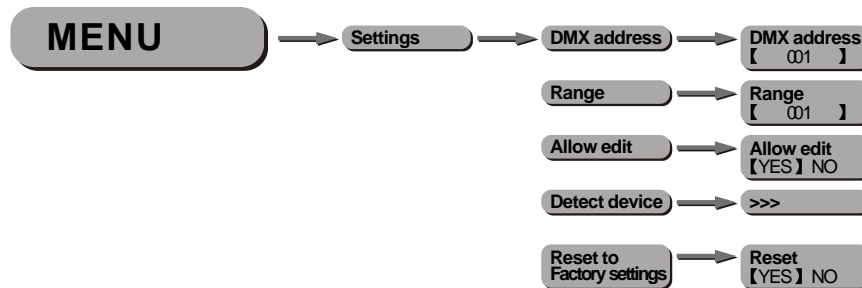
5.7 SCHEDULE



【Wash】 , 【Effect】 & 【Custom】

- Enter each of the twenty-four **【Wash】** , **【Effect】** and **【Custom】** programs to set Start & End time
- Programs will be played according to schedule time order.
- When a program is currently playing and has not yet reached the [End] time, any new [Start] time will have priority when over-lapping times.

5.8 SETTINGS



【DMX address】

- Enter the **【DMX address】** menu to set the DMX address of the controller.
- The DMX address may only be selected in the range 1-250

【Range】

- Enter the number of units connected together in series.

【Allow edit】

- This function allows or disables edit in **【Wash program】** , **【Effect program】** & **【Custom program】**

【Detect device】

- This function enables the controller to connect to all units.
- When new units are attached, this function must be used to locate new units.
- When the controller is turned off and then on again, the controller will also detect new units.

【Reset to factory settings】

- This functions will reset all settings to the original factory setting.
- Note that Custom program settings will not be affected by this function

【Default settings】

- **【Schedule】** all times in the schedule are reset to **【00:00】**
- **【Wash program】** step times and fade times are reset to **【001】**
- **【Effect program】** speeds are reset to **【001】**
- **【DMX address】** DMX address is reset to **【001】**
- **【Range】** range is reset to **【066】**
- **【Allow edit】** allow edit is reset to **【Yes】**
- **【Password ON/OFF】** password is reset to **【OFF】**
- **【Set password】** password is reset to **【00000000】** ('DOWN' = 0, 'UP' = 1)

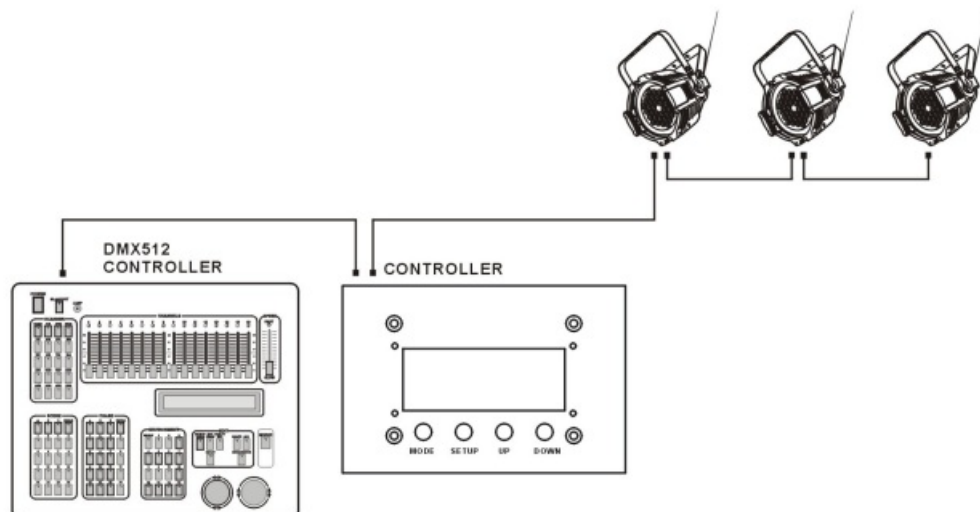
5.9 ACTIVATE THE PASSWORD



- Enter the **【Password】** mode to set password YES/NO
- When password is activated, display will demand password each time the fixture is powered on.
- Enter the **【Set password】** menu to change password.
- Set new password using the **【UP】** & **【DOWN】** keys.
- Input an 8 digit password and then press **【SET】** to confirm
- NOTE: In the event that the password is forgotten. Please use the factory password shown below.
- **【UP】 > 【DOWN】 > 【UP】 > 【DOWN】 > Up > UP > 【DOWN】 > 【DOWN】**

5.10 PiX CONTROLLER EXTERNAL CONTROL VIA DMX512

- It is possible to access the internal programs of the PiX controller using a DMX512 controller.
- The diagram below shows how to connect the equipment together.
- It is necessary to set the DMX address on the controller to the target DMX address as selected on the DMX512 controller



CHANNEL	VALUE	FUNCTION
1	0 ↔ 10	Refresh
	11 ↔ 30	Wash [1]
	31 ↔ 40	Refresh
	41 ↔ 60	Wash [2]
	61 ↔ 70	Refresh
	71 ↔ 90	Wash [3]
	91 ↔ 100	Refresh
	101 ↔ 120	Wash [4]
	121 ↔ 130	Refresh
	131 ↔ 150	Wash [5]
	151 ↔ 160	Refresh
	161 ↔ 180	Wash [6]
	181 ↔ 190	Refresh
	191 ↔ 210	Wash [7]
	211 ↔ 220	Refresh
	221 ↔ 255	Wash [8]
2	0 ↔ 10	Refresh
	11 ↔ 30	Effect [1]
	31 ↔ 40	Refresh
	41 ↔ 60	Effect [2]
	61 ↔ 70	Refresh
	71 ↔ 90	Effect [3]
	91 ↔ 100	Refresh
	101 ↔ 120	Effect [4]
	121 ↔ 130	Refresh
	131 ↔ 150	Effect [5]

CHANNEL	VALUE	FUNCTION	
2	151 ↔ 160	Refresh	
	161 ↔ 180	Effect [6]	
	181 ↔ 190	Refresh	
	191 ↔ 210	Effect [7]	
	211 ↔ 220	Refresh	
	221 ↔ 255	Effect [8]	
	3	0 ↔ 10	Refresh
		11 ↔ 30	Custom [1]
31 ↔ 40		Refresh	
41 ↔ 60		Custom [2]	
61 ↔ 70		Refresh	
71 ↔ 90		Custom [3]	
91 ↔ 100		Refresh	
101 ↔ 120		Custom [4]	
121 ↔ 130		Refresh	
131 ↔ 150		Custom [5]	
151 ↔ 160		Refresh	
161 ↔ 180		Custom [6]	
181 ↔ 190		Refresh	
191 ↔ 210		Custom [7]	
211 ↔ 220		Refresh	
221 ↔ 255		Custom [8]	
4	0 ↔ 127	OFF	
	128 ↔ 255	ON	