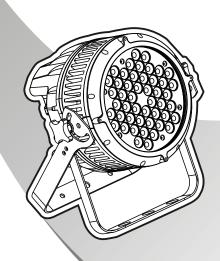
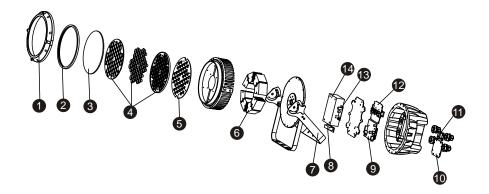
ExpoliteTourLED Pro



ABLE OF CONTENTS

PART 1	PRODUCT (GENERAL)1	١.
	1.1PRODUCT INTRODUCTION	1.
	1.2PRODUCT FEATURES	1.
	1.3TECHNICAL SPECIFICATIONS	
	1.4PHOTOMETRIC DATA	
	1.5SAFETY WARNING	4.
PART 2	INSTALLATION	5
	2.1MOUNTING	
	2.2POWER CONNECTION.	
	2.3SETTING UP WITH A DMX512 CONTROLLER.	
	2.3-1DMX512 ADDRESSING WITHOUT ID ADDRESSING	
	2.3-2DMX512 ADDRESSING WITH ID ADDRESS	
PART 3	DISPLAY PANEL OPERATION	2
IANIJ	3.1BASIC	
	3.2MENU.	
	3.3EDIT STATIC COLOUR	
	3.4ACTIVATING AUTO PROGRAMS	
	3.5RUN MODE	0.
	3.6DMX512 SETTINGS	
	3.7PERSONALITY	
	3.8ID ADDRESS	
	3.9EDITING CUSTOM PROGRAMS 1:	
	3.10SPECIAL SETTINGS	2
	3.11WHITES SETTING	
	3.12WHITES BALANCE	
	3.13A CTIVATE THE PASSWORD	
		٠.
PART 4	USING A DMX512 CONTROLLER14	١.
	4.1BASIC ADDRESSING1	4.
	4.2CHANNEL ASSIGNMENT1	4.
	4.3BASIC INSTRUCTIONS FOR DMX512 OPERATION1	9.
PART 5	APPENDIX2	0.
_	5.1TROUBLE SHOOTING	0.
	5.2 MAINTENANCE	1

5.2 MAINTENANCE



No	ITEM
1	Front cover
2	Rubber seal
3	Clear glass
4	Lens completed set
5	LED PCB
6	Heat sink
7	Bracket
8	Power connection board
9	Display PCB
10	Display protection metal plate
11	Safety chain board
12	Driver PCB
13	POWER PCB (5V)
14	Power supply (24V)I

5 APPENDIX 21 2010.1.15

5 APPENDIX

5.1 TROUBLE SHOOTING

SITUATION	CAUSE	ACTION	
No display	No power input Power connection error Display damaged Display board ICerror, or power input connection error, or two board connection error Contrast decay	1) Check power supply 2) Check power connection 3) Replace display 4) Check the ICand all the connections 5) Adjust theLCD contrast	
LED MODULE on, but no control from display	Display IC reverseinstall Display IC damaged	Check Display ICinstallation and quality	
Display normal, but no response from buttons	Buttons damaged Display IC damaged	1)Replace buttons 2) Replace Display IC	
No DMX signal 1) Signal Cable error 2) Signal connection error 3) The DMX signalreceive IC damaged 4) DMX address error		1) Check all signal Cables 2) Check all signal conncetions 3) Check the DMX signal receive IC 4) Check DMX address	
When the surface temperature of the unit exceed 75°C, the temperature protection no work. 1) The heat sensorresistance of LED board error 2) The temperature protection circuit on the display error.		Replace the heatsensor resistance. Check the temperatureprotection circuit.	
Color mixing 1) LED not joiningwell uneven,with splash 2) Lens not installingwell		Check LEDs joining Check lens installing	
Partial color (partial fed,partial green, partial blue or partial white) 1) The current ofone of the colorgroup I is too strong ortoo weak. 2) LED brightness notenough		1) Check driver currentof the partial color LEDs on the DriverPCB 2) Check LED quality 3) Reset to factorydefault setting.	
LEDs of the same color are not lit	LED damaged ED damaged orMain PCB	Replace LEDs Replace damaged LEDor Main PCB	
Manual and program 1) Saving IC damaged can not save		1) Replace saving IC	

1 PRODUCT (GENERAL)

1.1 PRODUCT INTRODUCTION

This product is designed for indoor or outdoor use. Suitable applications include wash or effect lighting for architectural, stage, theatre or road show applications. 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.

1.2 PRODUCT FEATURES

LED FIXTURE

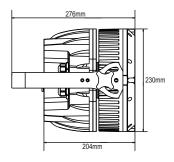
- * IP67 protection rating
- * RGBW Dimmer 0-100%
- * Strobe
- * Built-in automatic programs
- * Upload custom parameters to slave fixtures
- * LED display
- * Display control 'lock-out'
- * Direct DMX512 input
- * Independent ID address
- * Different white colors setting
- * 'Over-heat' protection

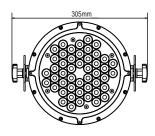
5APPENDIX 20 2010.1.15 1 PRODUCT(GENERAL) 1 2010.1.15

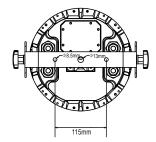
1.3 TECHNICAL SPECIFICATIONS

LED MODULE

LED MODULE:	I
Voltage	100~250V50/60Hz
Rated Power	180W
IP	IP67 protection rating
LED/Unit	48pcs (12 x RED / 12 x GREEN / 12 x BLUE/ 12 x WHITE)
Output/LED	3W
Environment Temperature	-20℃~40℃
Cooling	Direct air convection
Dimensions	305 x 276 x 230mm
Weight	8.5Kg







4.3 BASIC INSTRUCTIONS FOR DMX512 OPERATION (STAGE1)

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 & WHITE COLOR SELECTION

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

COLOR MACROS

- CH6 selects the required COLOR MACRO
- CH6 has priority over CH2, CH3, CH4 & CH5
- CH1 is used to control the intensity of the COLOR MACRO

STROBE

- CH 7 controls the strobe of CH1 to CH6
- Strobe 1 is with RGB in-step
- Strobe 2 is with RGB out-step
- Strobe 3 is a pulse strobe(faston/slow off)
- Strobe 4 is a pulse strobe (slow on/fast off)
- CH7 has priority over CH2, CH3, CH4 &CH5.

ID ADDRESS SELECTION

- CH9 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

- CH8 selects the preset AUTO programs AT.01-AT.10 or the custom AUTO programs CUS.01-CUS.10
- When activating the custom AUTO programs CUS.01 to CUS.10 then it is possible to control the STEPTIME and FADETIME using CH2 and CH3 respectively.
- CH8 has priority over CH2, CH3, CH4, CH5, CH6 & CH7.

DIMMER SPEED

CH10 is for selecting the dimmer mode and dimmer speed. When DIMMER is set to [Off], then RGBW and MASTER DIMMER are linear. The Dim 1/2/3/4 are different speed of the non linear dimmer.

1 PRODUCT(GENERAL) 2 2010.1.15 4 USING ADMX512 CONTROLLER 19 2010.1.15

Ar2.s

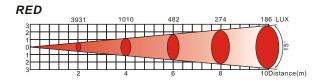
CHANNEL	VALUE	FUNCTION
1	0≪⇒255	MASTER DIMMER
2	0⇔255	RED
3	0⇔255	GREEN
4	0<⇒≥255	BLUE
5	0<⇒≥255	WHITE
6	0⇔255	STROBE

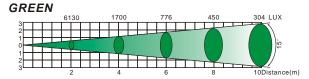
HSV

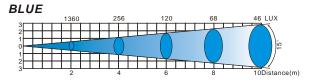
(CHANNEL	VALUE	FUNCTION
	1	0⇔255	HUE(0~100%)
	2	0⇔255	SATURATION(0~100%)
	3	0⇔255	VALUE(0-100%)

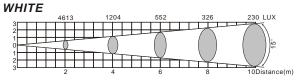
1.4 PHOTOMETRIC DATA

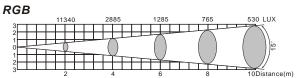
PHOTOMETRIC DATA

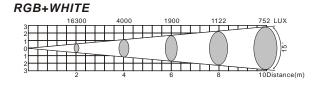












4 USING ADMX512 CONTROLLER 18 2010.1.15 1 PRODUCT(GENERAL) 3 2010.1.15

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 surethat 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

▲ 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.

Ar1.d

CHANNEL	VALUE	FUNCTION
1	0≪⇒255	MASTER DIMMER
2	0⇔255	RED
3	0⇔255	GREEN
4	0⇔255	BLUE

Arc.2

CHANNEL	VALUE	FUNCTION
1	0⇔255	RED
2	0⇔255	GREEN
3	0⇔255	BLUE
4	0≪⇒255	WHITE

Ar2.d

CHANNEL	VALUE	FUNCTION
1	0⇔255	MASTER DIMMER
2	0⇔255	RED
3	0⇔255	GREEN
4	0⇔255	BLUE
5	0⇔255	WHITE

1 PRODUCT(GENERAL) 4 2010.1.15 4 USING ADMX512 CONTROLLER 17 2010.1.15

CHANNEL	VALUE	FUNCTION
	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
11	150<⇒>159	ID15
	160<⇒169	ID16
	170<⇒>179	ID17
	180⇔189	ID18
	190<⇒⇒199	ID19
	200≪⇒209	ID20
	210	ID21
	211	ID22
	:	•
	:	:
	254	ID65
	255	ID66

Arc.1

CHA	NNEL	VALUE	FUNCTION
	1	0⇔255	RED
	2	0⇔255	GREEN
	3	0⇔255	BLUE

2 INSTALLATION

2.1 MOUNTING

HANGING

The fixture 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 fixture 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: 10 units may be connected in series

@120V: 5 units may be connected in series

Note.

- 1. As this fixture's DMX signal cable connection is Parallel connection, so if over 32 units to be connected, then a DMX signal amplifier is needed.
- If the signal cable is over 60m between the DMX512 controller and fixture or beween two fixtures, then a DMX signal amplifier is needed as well.

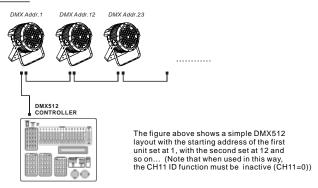
4 USING ADMX512 CONTROLLER 16 2010.1.15 2 INSTALLATION 5 2010.1.15

SETTING UP WITH A DMX512 CONTROLLER

2.3-1 DMX512 ADDRESSING WITHOUT ID ADDRESSING (TOUR MODE)

- ●Connect the DMX512 controller to the units in series.
- Each unit has 11 DMX channels so the DMX Addresses should increase by increments of 11 (e.g. 1,12,23,34...)
- ●The ID address has not been set so therefore when using the controller CH11 must be inactive (CH11=0).
- •It is also possible to deactivate ID address selecting [ID OFF] from the [Settings] menu. on the fixture
- Each DMX Address may be used as many times as required.
- •Any DMX address in the range from 001 to 512 may be used.

Example:



2.3-2 DMX512 ADDRESSING WITH ID ADDRESS (TOUR MODE)

- Connect the DMX512 controller to the units in series
- Each unit has 11 DMX channels so the DMX Addresses should increase by increments of 11 (e.g. 1,12,23,34...)

 Each DMX Address may be used as many times as required.

 Any DMX address in the range from 001 to 512 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 On] should be set in the [Settings] menu on each unit.
 ID addresses are accessible from Ch9 on the DMX512 controller.

CHANNEL	VALUE	FUNCTION
	231⇐⇒235	WHITE 7: 6500K
	236<⇒240	WHITE 8: 7200K
6	241<⇒>245	WHITE 9: 8000K
	246≪⇒250	WHITE 10: 8500K
	251<⇒≥255	WHITE 11: 10000K
		STROBE
7	0⇔10	NO FUNCTION
	11<⇒⇒255	1~20Hz
		AUTO
	0⇔20	NO FUNCTION
	21⇐⇒30	AUTO 1
	31<⇒>40	AUTO 2
	41⇐⇒50	AUTO 3
	51⇔60	AUTO 4
	61⇐⇒70	AUTO 5
	71<⇒>80	AUTO 6
	81⇔90	AUTO 7
	91<⇒>100	AUTO 8
	101<⇒⇒110	AUTO 9
	111<⇒>120	AUTO 10
8	121⇐⇒130	CUSTOM 1
·	131<⇒>140	CUSTOM 2
	141⇐⇒150	CUSTOM 3
	151⇔160	CUSTOM 4
	161⇔170	CUSTOM 5
	171⇔180	CUSTOM 6
	181⇔190	CUSTOM 7
	191<⇒>200	CUSTOM 8
	201<⇒>210	CUSTOM 9
	211<⇒>220	CUSTOM 10
	221<⇒≥255	NO FUNCTION
		AUTO SPEED ADJUSTMENT
9	0⇔255	When using CH8,AUTO01-AUTO10, this function activated DIMMER SPEED
	0<⇒9	PRESET DIMMER SPEED FROMDISPLAY MENU
	10<⇒≥29	LINEAR DIMMER
10	30<⇒ 69	NON LINEAR DIMMER 1 (fastest)
	70<⇒⇒129	NON LINEAR DIMMER 2
	130<⇒> 189	NON LINEAR DIMMER 3
	190<⇒⇒255	NON LINEAR DIMMER 4 (slowest)
		ID ADDRESS
	0⇔9	ID1~ID66
	10⇔19	ID1
	20≪⇒29	ID2
11	30≪⇒39	ID3
	40<⇒49	ID4
	50≪⇒59	ID5
		•

4 USING ADMX512 CONTROLLER 2 INSTALLATION 2010.1.15 15 2010.1.15

4 USING A DMX512 CONTROLLER

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

Note: This product have three DMX512 channel configuration: [TOUR],
 [Arc.1], [Ar1.d], [Arc.2], [Ar2.d], [Ar2.s] and [HSV]

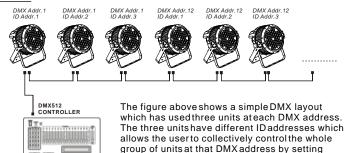
TOUR

4 USING ADMX512 CONTROLLER

CHANNEL	VALUE	FUNCTION
1		MASTER DIMMER
	0<⇒≥255	
2	0⇔255	RED (or STEP TIME when CUS.01-CUS.10 in CH8 is activated)
3	0⇔255	GREEN (or FADE TIME when CUS.01-CUS.10 in CH8 is activated)
4	0<⇒≥255	BLUE
5	0≪⇒255	WHITE
6		COLOR MACRO
	0⇔5	NO FUNCTION
	6≪⇒20	HIGH POWER(only when in NORMAL POWER mode)
	21<⇒⇒30	NO FUNCTION
	31<⇒>50	RED 100%/GREEN UP/BLUE 0%
	51<⇒>70	RED DOWN/GREEN 100%/BLUE 0%
	71<⇒>90	RED 0%/GREEN100%/BLUE UP
	91<⇒⇒110	RED 0%/GREENDOWN/BLUE 100%
	111<⇒⇒130	RED UP/GREEN 0%/BLUE 100%
	131<⇒⇒150	RED 100%/GREEN 0%/BLUE DOWN
	151<⇒⇒170	RED 100%/GREEN UP/BLUE UP
	171<⇒⇒190	RED DOWN/GREEN DOWN/BLUE 100%
	191⇔200	RED100%/GREEN100%/BLUE100%/WHITE100%
	201<⇒>205	WHITE 1: 3200K
	206≪⇒210	WHITE 2: 3400K
	211<⇒>215	WHITE 3: 4200K
	216≪⇒220	WHITE 4: 4900K
	221<⇒>225	WHITE 5: 5600K
	226≪⇒230	WHITE 6: 5900K

2010.1.15

Example:



CH11 to 0, or to control each unit independently by

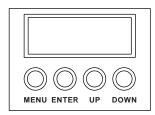
first selecting the DMX address and then by using

CH11 tolocate the targetID address.

2 INSTALLATION 7 2010.1.15

3 DISPLAY PANEL OPERATION

3.1 BASIC



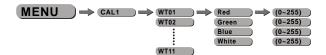
[MENU] scroll through the main menu or return to the main menu

[ENTER] enter the currently selected menu or confirm the current function value

[UP] scroll 'UP' through the menu list orincrease the value of the current function

[DOWN] scroll 'DOWN' through the menu list or decrease the value of the current function

3.11 WHITES SETTING



[CAL1]

- Enter the [CAL1] to select white color of different color temperature.
- There are 11 pre-programmed White colors can be edited by using [Red], [Green], [Blue] & [White].

3.12 WHITE BALANCE



[CAL2]

- Enter the [CAL2] to adjust the RGB parameter to make different whites.
- When the new setting is activated, the DMX controller choose RGB = 255,255, 255.

the white color will be made by the actual RGB values on the 【CAL2】.

3.13 A CTIVATE THE PASSWORD



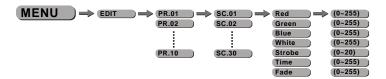
[KEY]

- Enter the [KEY] mode to select whether the access password is on or off.
- When the fixture is set as PASS [ON], after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

Note: The factory access password is [UP] + [DOWN] + [UP] + [DOWN] , then press [ENTER] to confirm the access.

3 DISPLAY PANEL OPERATION 8 2010.1.15 3 DISPLAY PANEL OPERATION 13 2010.1.15

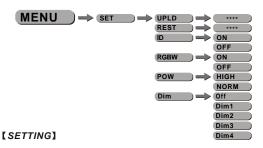
3.9 EDITING CUSTOM PROGRAMS



[EDIT CUSTOM]

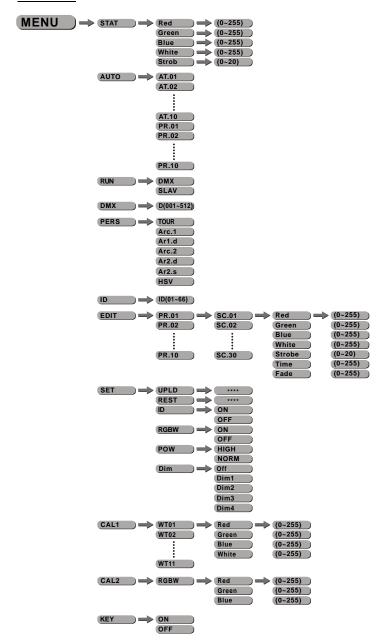
- Enter the [EDIT] mode to edit the custom programs [PR.01] to [PR.10].
- Each custom program has 30 steps that can be edited.
- Each step allows the creation of a scene using RED [Red], GREEN [Green], BLUE [Blue], WHITE [White], STROBE [Strobe], TIME [Time] & FADE [Fade].

3.10 SPECIAL SETTINGS



- Select [UPLD] to upload the custom programs from the current MASTER unit to the SLAVE units.
- •In order to activate the upload function the password must be entered.
- Password is the same as the main access password.
- •When uploading the MASTER and SLAVE units will display YELLOW.
- •If an error occurs when uploading the MASTER and/or SLAVE units will display RED.
- On successful uploading of the custom programs the MASTER and SLAVE units will display GREEN.
- •In order to reset custom modes to default values select [REST].
- Enter [ID] in order to allow/disallow ID address function from the DMX512 controller.
- ●When 【RGBW】-- RGB TO WHITE is set to 【YES】, on RGB = 255,255,255, the color is perfect white as the actual RGB values are adjusted to make white. When it is set to 【NO】, on RGB = 255,255,255, the RGB values are not adjusted and the output is most powerful. The 【RGB W】's parameter can be adjusted in 【CAL2】.
- •Enter [POW] to choose the operation power mode [NORM] or [HIGH], when it is normal mode, the power consumption is about 90W, while under high mode, it is about 150W.
- ●Enter 【Dim】 to select dimmer mode and dimmer speed. When DIMMER is set to 【Off】, then RGBW and MASTER DIMMER are linear. The Dim 1/2/3/4 are speed modes of the non linear dimmer, 【Dim1】 is the faster, while 【Dim4】 is the slowest. The factory default setting is 【Dim4】.

3.2 MENU



3 DISPLAY PANEL OPERATION 12 2010.1.15 3 DISPLAY PANEL OPERATION 9 2010.1.15

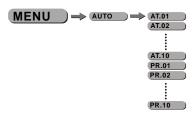
3.3 EDIT STATIC COLOUR



[STATIC COLOUR]

- Combine [Red], [Green], [Blue] and [White] to create an infinite range of colors (0-255)
- Set the value of the [Strobe] (0-20Hz)

3.4 ACTIVATING AUTO PROGRAMS



[AUTO]

- Select the target [AUTO] program and press [ENTER].
- Programs [AT.01] to [AT.10] are fully pre-programmed and will not be altered by changes in [EDIT] mode.
- Programs [PR.01] to [PR.10] are fully pre-programmed and can be edited in [EDIT] mode.

3.5 RUN MODE



[RUN]

- Enter the [RUN] mode to set working mode.
- [DMX] mode is for using the DMX512 controller to control the fixtures.
- [SLAV] mode is for Master -- Slave operation.

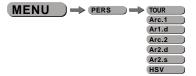
3.6 DMX512 SETTINGS



[DMX]

• Enter the [DMX] mode to set the DMX ADDRESS.

3.7 PERSONALITY



[PERSONALITY]

• Enter the [PERSONALITY] mode to select DMX mode: [TOUR], [Arc.1], [Ar1.d], [Arc.2], [Ar2.d], [Ar2.s] or [HSV].

3.8 ID ADDRESS



[ID]

• Enter the [ID] mode to set the ID ADDRESS.

3 DISPLAY PANEL OPERATION 10 2010.1.15 3 DISPLAY PANEL OPERATION 11 2010.1.15