



User's and operator's manual for art. 0002•0003 Manuale d'uso e dell'operatore per art. 0002•0003

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SAFETY INFORMATION

READ ALL CAUTIONS AND WARNINGS PRIOR TO OPERATE THIS EQUIPMENT. INSTRUCTION TO PREVENT INJURY OR DAMAGE DUE TO ELECTRIC SHOCK, FIRE, MECHANICAL HAZARDS, UV RADIATION HAZARDS AND DANGEROUS MATTERS.

PROTECTION AGAINST DANGEROUS MATTERS

At the end of its working life, the product must not be disposed of as urbamn waste. It must be taken to a special local authority differentiate waste collection centre or to a dealer providing this service. The wrong disposal must be cause of environment and people damages in the presence of possible dangerous matters. There are provided for sanctions to a unauthorized disposal of these products.

PROTECTION AGAINTS FIRE

- 1)This equipment is designed for use with the following lamps only:
- (1800) Philips MHN/SA 1800W e (2500) Philips MSA/DE 2500W

DO NOT USE ANY OTHER TYPE OF LAMP!

- 2) Maintain minimum distance of 0.5 meter from walls or any other type flammable surfaces.
- 3) Maintain minimum distance of 2.0 meter to lighted objects .
- 4) Replace fuses only with the specified type and rating.
- 5) Do not install the spot close to heat sources. Do not lay the connection cable on the spot when it is warm.

PROTECTION AGAINST ELECTRIC SHOCK

1) This equipment must be earthed.

- 2) Class I equipment. The power supply cord includes a protective earthing conductor as part of the cord.
- 3) Disconnect power before installing the lamp or servicing (service personnel).

•PROTECTION AGAINST MECHANICAL HAZARDS

- 1) Use secondary safety chain when fixing this equipment.
- 2) Hot lamp explosion hazard. Do not open the equipment for 300 seconds after switching off.
- 3) Equipment surface may reach temperature up to 100°C. Allow about five minutes before handling.
- 4) Replace the lamp if it is damaged or thermally deformed.

•PROTECTION AGAINST UV RADIATION HAZARDS

- 1) Do not start on this equipment without lamp enclosure or if the protection screens, or ultraviolets screens are damaged.
- 2) The protection screens, the lenses, or the ultraviolet filters must be replaced if they are visibly damaged and their effectiveness has been reduced, for example, by cracks or deep scratches. **Part 140/a, code SD052000015**
- 3) Do not look directly at the lamp while lamp is on.



INTRODUCTION

Thank you for using our flood projector CityColor.

The CityColor projects, thanks to an extremely efficient optic system (patent n. WO99/40361), a powerful light beam which can create numberless color shades. Its performances, in terms of luminousity and lighted surfaces, can reach incredible levels.

The CityColor IP54 comes in the following versions:

- Art. 0002 CITYCOLOR IP54 1800W
- Art. 0003 CITYCOLOR IP54 2500W High Power

The CityColor can work in automatic mode or in synchro mode, otherwise may be controlled by 8 bit DMX controllers

The input protocol is the DMX 512. To drive the CityColor we suggest to use either our controller DMX Control Spot, the Control Show 512 the Easy Control or the Fancy.

To make the most of its possibilites and for a correct functioning of this unit in the years to come, we suggest you to read carefully this manual before connecting or putting the spot into use. By doing so you will gain experience with its commands and connections and you will be easily able to use it.

Check that the spot has not been damaged during transport. If it has been damaged or it does not work, address the seller. Whether the spot has been shipped to you directly, please contact the shipping company. Only the consignee (person or company) can claim for these damages.



2m 🖡

YOUR REFERENCE

Always remember to give the serial number and to specify the model any time you address the seller for information or assistance.

BASIC KIT

The basic kit of the CityColor flood projector consist of:

- Projector
- •User's manual
- Power connector
- Studio Due warranty

Available on request:

•art. 9801/a: barndoor to define illuminated surface

•art. 0003/a: anti glare

- •art. 0002/a: XLR 3 pin male IP54 connectors
- •art. 0002/b: XLR 3 pin female IP54 connectors
- •Lamp

TECHNICAL FEATURES

•LAMPS MHN/SA 1800W PHILIPS (art. 0002) Color temperature: 5.600°K Lamp life: 2.500 hours Luminous flux 180.000 lm

MSA/DE 2500W PHILIPS (art. 0003) Color temperature 6.000°K Lamp life 2.000 hours Luminous flux 260.000 lm

• OPTIC COLOR SYSTEM

Full CYM color mixing, unlimited variety of colours and shades. High resolution stepper motors. Shutter + dimmer. The color changer can be drived with 4 different speeds or in real time.

•BEAM ANGLE: (50% intensity) 50°x52°

•CONTROL INPUT Standard interface: RS-485; opto-couplet input. Protocol: USITT DMX 512

•SETUP AND CONFIGURATION On the control panel with menu and buttons

•AUTOMODE

Stand-alone control: auto mode function master/slave (synchro mode) with 27 programs

• IP RATE: IP 54

•POWER SUPPLY: (art. 0002) magnetic ballast Rated voltage: 230V~/50Hz On request: 200V~/50Hz; 208V~/60Hz; 230V~/60Hz; 240V~/50Hz Rated current: 10A @230V~ Rated power: 2000W

•POWER SUPPLY: (art. 0003) magnetic ballast Rated voltage: 230V~/50Hz On request: 200V~/50Hz; 208V~/60Hz; 230V~/60Hz; 240V~/50Hz Rated current: 14A @230V~ Rated power: 3000W

• POWER FACTOR CORRECTOR: built-in cos Ø 0.9

•DMX CHANNELS	
ch1 = motors speed	ch5 = dimmer
ch2 = cyan	ch6 = basic colors + rainbow
ch3 = yellow	ch7 = remote reset/lamp off
ch4 = magenta	

•DIMENSIONS (wxdxh) mm 780x560x740

•WEIGHT art. 0002: 56 kgs. net art. 0003: 69 kgs. net





CIRCUIT BREAKER				
MAINS VOLTAGE	ln	ld		
230V	32A	0,03A		

CE Studio Due CITYCOLOR art. 0002
Keep at least a distance of 0,5 mts between the apparatus and inflammable surface nearby.
Disconnect the unit from power before servicing.
230Vac; 15A - 50Hz SN QC

CONDUCTOR SIZES (length < 20mt.)			
MAINS VOLTAGE CROSS SELECTIONAL AREAS			
230V	3X1,5 mm² (minimum)		



BEFORE USING



The equipment must be earthed. IP 54 rate: the equipment must be installed on the horizontal plane.

Read all cautions and warnings to page 1 prior to install this equipment. Particularly, read the follow:

- 1) Disconnect power before lamp's replacement or servicing (service personnel)
- 2) Do not open the lamp cover for 300 seconds after switching off
- 3) Wear gloves and goggles to re-lamping or to work inside the unit (service personnel)

Before connecting the equipment to the power system: make sure that the mains voltage and frequency correspond to rated values.

• The CityColor can be equipped for a mains voltage 230V~ /50Hz.

on request: 200V~/50Hz; 208V~/60Hz; 230V~/60Hz; 240V~/50Hz

For a power supply of 100V~ 120V~ it is necessary to use one auto transformer with the following features:

- Output voltage 230V~
- Output current 15A @230V~ (for art. 0002)
- Output current 20A @230V~ (for art. 0003)

The power supply cords construction is shown in pict.1. For connection to the mains supply proceed as pict.1.

The equipment must be connected to branch circuit having a circuit-breacker $In=16A \cdot Id=0.03A$ (230V~) (art. 0002) or $In=32A \cdot Id=0.03A$ (230V~) (art.0003)

- a) Do not install the spot close to the heat sources. Observe minimum distance between the spots of 1.5 meters. Do not lay the connection cable on the spot when it is warm.
- b) This unit must be positioned as to allow its ventilation. Be careful not to acclude the in-out ventilating grilles.
- c) The unit must be positioned at least 50cm. from walls or other flammable surfaces.
- d) Observe minimum distance to lighted objects of 5 meters.

External surface temperature Ta 35°C:

- After 5 minutes work; Tc=75°C.
- Once the thermic balance has been obtained; $Tc = 100^{\circ}C$.
- 4) The protection screens, the lenses, or the ultraviolet filters must be replaced if they are visibly damaged and their effectiveness has been reduced, for example, by cracks or deep scratches.
- 5) The lamp must be replaced if it has been damaged or thermally deformed.
- 6) Clean regularly the in-out ventilating grilles.
- 7) Do not handle the spot by taking it by the head, but always by using the special handles.







In case of replacement of the lamp or maintenance, do not open the fixture unless 5 minutes have passed from the switching off. This operation has to be done when the apparatus is disconnected from the mains supply

INSTALLATION OF THE DISCHARGE LAMP

(see pic.2)

- 1) Disconnect power before lamp's replacement. Wear gloves and goggles.
- 2) Remove completely the pommels (A) on the base of the head
- 3) Open the base of the lamp room (G)
- 4) Remove the two lateral reflectors (C)
- 5) Lift up the two lampholder (D)
- 6) Install the new lamp. Taking care that protuberance of the bulb is set towards the reflector
- **Do not touch the quarz bulb with fingers. If this happenes, clean the bulb before use with dry cloth and alcohol.** 7) Put down the two upper lampholders (D)
- 8) Connect the cables (E) to the two ends of the lamp or connect the two cables of the lamp to the two red insulators on the rear panel of the head.
- 9) Put in again the two lateral plane reflectors.
- 10) Close the rear panel and install again the two pommels (A) and hold them tightly.

IP RATE

The declared IP rate of the CityColor comes supported at these conditions:

- the installation of the fixture on a wide and stable surface
 - the air cooling input and output are located on the base of the side-shell, it is not possible to install the fixture outdoor with the ballast upwards
 - $\ensuremath{\,^\circ}$ you must use the filter supplied with the basic kit for the IP RATE 54



The CityColor has a IP rate 44 without filters installed and an IP RATE 54 with filters installed. You must use the filters in critical working conditions and, normally, when the fixture works outdoor. You must remove the filters when the ambient temperature is over 35°C. You must regularly clean the filters to allow the correct cooling of the fixture.

INSTALLATION OF THE DUST PROOF FILTERS



You must operate with power supply disconnected from the fixture



pict.3



You must remove the two side protective shells. The two filters must be assembled on the bulkheads at the bottom of the side brackets.

Pay attention to the installation: dust proof filters must stick correctly to prevent the entrance of the dust. You must control that the two filters completely cover the overall of the air entrance.



pict.4

CONTROL PANEL

On the control panel of the CityColor (pict.4) you can find, besides the display, the leds and the buttons to use to set the spot.

LED

• "DMX" led	flashing: off:	DMX input present no DMX input
 "LAMP" led 	flashing: off:	the lamp switching off is remotely controlled lamp switched on
• "DIMMER" lec	flashing: off:	the lamp is 33% dimmered lamp switched on

BUTTONS

Four buttons are used to programme the spot:

- DOWN to go backward in the selected options
- UP to go forward in the selected options
- ENTER to confirm the selected options

DISPLAY

Shows the various menus and the selected options.



About twenty seconds after the switching on, the number of the software version will be shown on the display in "X_00" format. Afterwards the first of the eight available menus will appear:

- Addrto assign the DMX-512 addressModeDMX512 mode, master with pre-set selection, slaveLHrSlamp working hours
- FHrS fixture total working hours
- nChn channels number
- teSt auto-test
- **FLIP** display inversion
- rSEt reset of the spot

To select any of the given options, press the MENU button up to when the required one is shown.

Addr (Address)

To visualise the DMX address press ENTER.

To modify the address press Down and Up buttons and, once the required address has been selected, press and keep ENTER pressed up to when the display stops flashing (it flashes to indicate that the selected option is different from the pre-set one). To go back to the options without making any change, press the MENU button.

Mode (Mode)

To visualise this mode press ENTER.

Use Down and Up buttons to change the mode and, once the required one has been selected, press and keep ENTER pressed up to when the display stops flashing (it flashes to indicate that the selected option is different from the pre-set one). The available options are: no (normal) for the functioning in DMX reception; Pr01...Pr15 (pre-set 01...15) for the master functioning with the respective game, SL (slave) for the functioning as slave. To go back to the options without any change, press the MENU button.

LHrS (Lamp Hours)

To visualise the number of working hours of lamp press ENTER.

The maximum countable number of hours is 3000. Exceeding this number, the display will show gr3t (greater than 3 thousands). To reset the counter press simultaneously buttons Down and UP: the display will show CLLH (clear lamp hours). To go back to the options without making any change, press the MENU button.

FHrS (Fixture hours)

To visualise the number of working hours of fixture press ENTER.

The maximum countable number of hours is 3000. Exceeding this number, the display will show gr3t (greater than 3 thousands). To reset the counter press simultaneously buttons Down and UP. A control of the memory will be run and all the default settings will be stored: the display will then show lnit. If the memory is damaged, the display will show the message FAIL. To go back to the options without making any change, press the MENU button.

nChn (Number of Channel)

To visualise the number of channel press ENTER.

Use Down and Up buttons to change the channel and, once the required one has been selected, press and keep ENTER pressed up to when the display stops flashing (it flashes to indicate that the selected option is different from the pre-set one). It is possible to set 6 channels or 7 channels (remote reset and remote lamp switch off). To go back to the options without making any change, press the MENU button.

teSt (Autotest)

To insert the auto-test press ENTER and keep it pressed up to when the display shows the flashing message t-on (test on). To take off the auto-test press the MENU button. To go back to the options without making any change, press the MENU button.

FLIP (Display overturning)

The display visualisation can be standard or overturned: by pressing the ENTER button the two modes will be alternatively visible. The selected one will be immediately stored in the spot setting.

To go back to the options without making any change, press the MENU button.

rSEt (Reset)

To run the complete reset press ENTER and keep it pressed up to when the display shows the flashing message r-on (reset on). Once the reset procedure has been completed the spot will go back to the normal setting. To go back to the options without making any change, press the MENU button.

DRIVING THE CITYCOLOR WITH A DMX REMOTE CONTROLLER

- Select the requested DMX starting address by operating on the Addr option
- Select the requested number of channel with NChn option
- · Connect the DMX signal between the fixture and the controller
- Check that the DMX led is flasing. (DMX signal present)
- If there is no signal, you must manually reset by operating on the RESET option

It is possible to choose a standard configuration occupying 6 DMX channels, or a enanched configurationoccupying 7 channels. Use the enanched configuration if you want to activate channel 7 which enables the reset of the motors and the switching off of the lamp from the controller.

6/7 CHANNELS MODE SELECTION

Press the MENU button on the control panel up to when the option nChn is shown on the display, select it by pressing ENTER and the set indication will appear (6 or 7 channels). If you want to activate channel 7 you must set 6 channels on the display. Pass through the numbers by pressing the buttons UP and DOWN: once you have set the required number, store it by pressing the ENTER button and keep it pressed up to when the display stops flashing (the flashing shows that the selected option is different from the one previously stored). To exit from the selected option without making any change press the MENU button.

6 CHANNELS

CH 2= Cyan CH 3= Yellow

CH 4= Magenta CH 5= Dimmer

CH 1= Motor speed

CH 6= Basic colors+rainbow

Here below is shown the complete list of the functions of the CityColor. The complete list of the DMX values can be found in appendix "A", page 26

7 CHANNELS

- CH 1= Motor speed
- CH 2= Cyan
- CH 3= Yellow
- CH 4= Magenta
- CH 5= Dimmer
- CH 6= Basic colors+rainbow
- CH 7= Remote reset/Lamp off



CONNECTION THE DATA LINK (DMX 512)



pict.5

PIN	WIRE	SIGNAL
1	SHIELD	GROUND/RETURN/OV
2	INNER CONDUCTOR	DATA COMPLEMENT (-, INVERTED)
3	INNER CONDUCTOR	DATA TRUE (+, NON INVERTED)

pict.5a



The connection of the DMX signal to the CITYCOLOR must be made by using the signal input XLR 5 pin connectors which are located on the control panel of the fixture. (pict.5)

The pin nomenclature of the connectors for the connection to the DMX signal is listed in the table. (pict.5a)

In order to avoid any problem in the signal transmission, it is warmly suggested to use a cable for high speed data transmission (sect. > 2x0.25 + gnd).

If the lines have a total length over 150-200 mts it is suggested to use a signal amplifier (art. 3004 - DMX repeter amplifier). The usage of a normal microphonic or audio cable is suggested only for lines max 100 mts long.

To ensure the IP54 rate you must connect the DMX cable inside the base. Use the given cables fixing (pict. 5b) and connect by following the cables numbering (pict. 5c).

DMX TERMINAL LINE



The wrong connection of the terminal line or its non-connection are probably the most frequent reasons for the defective functioning of the DMX line. The terminator is a resistor fitted between the two "data" lines (pins 2 and 3 of an XLR 5 pin connector) at the end of the cable furthest from the transmitter. The terminator resistor should have the same value as the impedance of the connection cable.

We supply a terminal with a 100 Ohm resistor.

It is recommanded that all DMX 512 systems have the termination resistor at the and of the line.



EXAMPLE 1 Connection controller-spot with 1 DMX 512 output



EXAMPLE 2 Connection controller-spot to one DMX 512 output over 150mts long



SIGNAL AMPLIFIER





MASTER

pict.7

USE OF THE CITYCOLOR IN AUTO-MODE

A short list of the games can be found in appendix "B", page 27

Press the MENU button on the control panel up to when the option MODE (pict. 7) is shown on the display, select it by pressing ENTER and the set indication will appear (no...SL). Use Down and Up buttons to change the mode and, once the required one has been selected, press and keep ENTER pressed up to when the display stops flashing (it flashes to indicate that the selected option is different from the pre-set one). The available options are: no (normal) for the functioning in DMX reception; Pr01...Pr27 (pre-set 01...27) for the master functioning with the respective game, SL (slave) for the functioning as slave. To go back to the options without any change, press the MENU button.

Mode	no	use of the CityColor in DMX-512
	Pr1Pr27	master functioning with execution of the 27 stored programme
	SL	use of the CityColor in SLAVE MODE

EXAMPLE OF CONNECTION AND SETTING OF 4 CITYCOLOR IN SYNCHRO - MODE



The cables are the same as the DMX standard cable

EXAMPLE OF CONNECTION AND SETTING OF 4 CITYCOLOR IN INDIPENDENT AUTO - MODE

MASTER

MASTER

MASTER

MASTER





TROUBLESHOOTING GUIDE

Before calling for technical assistance, follow the recommended procedures in this appendix to solve many problems on your fixture.

CAUTION! • BEFORE YOU BEGIN:

Before you perform any troubleshooting procedures read the following personnel and equipment safety precautions:

1) Refer servicing to service personnel (Q.T.= qualified technician); no user serviceable parts inside

- 2) Wear hand and eye protection
- 3) Wait at least five minutes before accessing the lamp after operation
- 4) Disconnect the unit from power before removing any cover (Q.T.)

If the procedures do not solve your problem and you need to call for assistance, please provide the support technician with the follow information:

- Customer name
- Phone number and fax number
- Fixture serial number
- Message that are you displayed on your Citycolor display

• Description of the problem and the troubleshooting procedures that you have performed so far to diagnose and resolve the fault.

You can contact your authorized STUDIO DUE dealer or directly STUDIO DUE Technical Service. (tel. +39.0761.352520 or fax +39.0761.352653 - e-mail: service@studiodue.com or customer@studiodue.com)

GENERAL TROUBLESHOOTING Appendix "C" • Table A1

Problem	Pilot-tests (guide)	Probable causes	Suggested solutions
The unit does not turn	Measure the mains	No power.	Connect power.
on, the fans do not work.	voltage on the main	Power cord or	Replace the cables and
The unit is completely	connector.	connectors.	the connectors.
dead	If you have the right	Main fuses blown.	Replace the mains fuse
	value the main fuses are blown		
The fans work, the	The electronics do not	Short circuit on the +5V	General test on the +5V
display is turned off (no	work.	line.	line.
reset when switching on,			
no light).	the motor board (CCIP PCB) are turned on,	D4 has blown.	Replace the D4 diode.
	particularly check the +5V.	U12 short circuit or blown	Replace the U12.
The unit works normally	When switching on, you	Bad lamp.	Replace the lamp.
but the lamp does not	can ear the clack of the	Lamp is too hot to re-	Wait for the lamp
turn on	internal circuit breaker.	strike.	cooling
		Mains voltage is too low.	Measure the mains
		The igniter is not	voltage.
		working.	Replace the igniter.
		Wrong ballast wiring.	Check the ballast wiring
The unit works normally	When switching on, you	The unit is not properly	Check and close all the
but the lamp does not	can not ear the clack of	closed (cover and/or	eight mechanical latches
turn on	the internal circuit	lamp house)	Carry out the tests
	breaker.	Fault on wiring, PCB,	shown on page 14
		switches	
The unit works normally	The thermal switch on	Too high temperature	Wait that the lamp
but the lamp does not	the head of the fixture is	inside the head.	housing has cooled
turn on.	open.	The fan on the head is	down.
		not working	Check and if necessary
			replace the fan.
			Check and if necessary
		<u></u>	replace the connettors
		The air-in grilles are	HEAD FAN, BASE FAN,
		stopped up.	THERMAL SENSOR. Clean the grilles
	The last DMX channel	The REMOTE LAMP OFF	Set the DMX channel on
	on the controller (n. 7) is	command is on.	0 value.
	set on a value>250		

Ventilation of the head does not work normally	The electronic control of the fan is broken or not correctly connected	HEAD FAN connectors on the PCB CC are not ok U10 micro on the PCB CCIP broken	Check tension on the TO HEAD FAN connector Check the start-up test when switching on the fixture
Speed of the head fan is always the same	The electronic control of the fan is broken or not correctly connected	TO HEAD THERMAL SENSOR connectors are not ok Thermal sensor on the air output broken or disconnected U10 micro on the PCB CCIP broken	Check connections from TO HEAD THERMAL SENSOR connector to thermal sensor Check the thermal sensor Check the start-up test when switching on the fixture
The lamp is cutting out intermittently	The lamp is not working well. The values reached by the internal temperature are too high	The tension of the power supply is either too high or too low. The fan on the head is not working regularly The air grilles are stopped up.	Measure the mains voltage. Check and if necessary replace the fan. Check and if necessary replace the RFH resistor Clean the grilles
One of the function is not working well(ie. DIMMER)	Disconnect the power. Manually test if the DIMMER moves freely.	The stepper motor is damaged or the cable connected to the controller pcb is broken (ref. CCIP PCB). The motor drive (L6219) is broken.	Make all the tests reported in page14

DATA LINK (512 DMX) TROUBLESHOOTING Appendix "C" • Table A2

Problem	Pilot-tests (guide)	Probable cause(s)	Suggested Solutions
None of the Citycolors	Make sure that all the	The controller is not	Connect the controller
responds to controller.	units are set in DMX	connected to the	properly.
The DMX led is switched	mode.	fixtures.	Use an already tested
off.	After the configuration	The cable from the	cable and connect the
	reset all the fixtures	controller to the first of	fixtures one by one.
		the Citycolor is	
		interrupted (or pin 2 and	
		3 are swapped or the	
		cables are on short	
		circuit)	
One or more of the	The non-working	Wrong DMX address in	Set the proper address
Citycolors do not	fixtures are always the	the fixture.	
respond to the controller	same.		Check and if necessary
or do it wrongly.	The fixtures work	Wrong data cables, or	replace the cables.
	accidentally. If one of the	disconnected or shorted.	Use a tested cable and
	connecting cables is		replace only one at a
	missing this may cause		time.
	a random		Use a tested cable and
	malfunctioning in		exclude only one fixture
	addition to apparent	One fixture has a broken	at a time.
	normal operation. If the	DMX board.	Insert the terminator on
	inverted-data is cut wire		the last fixture (pag.10)
	is cut (pin. 2 on the DMX	DMX link not terminated.	
	connector) the line		
	works intermittently.		

MAIN BOARD CONNECTION



rel. 7-0308

MOTORS BOARD

- POWER SUPPLY +30V Led On
- +5V Led
- +320V Led
- •+5V DMX Led
- DMX signal
- Led flashing: the DMX signal is operating on the board Led off: check the U1 (6N137) and the DMX connecting cable (from PCB PAN IP)
- STEPPER MOTOR channel not working: (i.e. YELLOW):
- 1) Switch off the fixture and disconnect the YELLOW and CYAN cables
- 2) Connect the YELLOW cable on the CYAN connector
- 3) Switch on the fixture:
- 3a) If the YELLOW motor works normally it is necessary to replace the U6 (L6219)
- 3b) If the motor is still not working check with extreme attention the motor and the interconnecting circuits (cables and connectors). To check the cables and the motors you can measure the resistance as follows: between PIN 1 and PIN21 (on IC U6)r=~180hm; between PIN 2 and PIN5 (on IC U6) r=~180hm
- If the led +5V OPTODMX is off:
- 1) Disconnect TO DISPLAY PCB PAN IP connector; if the led is on check PCB PAN IP
- 2) Check U13 (78M05), L3, D6
- If the led +5V is off:
- 1) Disconnect TO DISPLAY PCB PAN IP connector; if the led is on check PCB PAN IP
- 2) Check D4, L2, U12

• If the led +28V is off:

- 1) Check if the led +320V is on, if it is ok:
- 1a) Check if U11 is in thermal drift (ATTENTION on the heat dissipator there is dangerous tension!!!!)
- 1b) Check if U5, U6, U7, U8, U9 are in short-circuit. Switch off the fixture. Remove all the chips from the socket. Switch on the fixture: if the led is on, insert the chips one by one in the sockets to find out which is in short-circuit.
- 1c) Check D3
- 1d) If all the operations described above have not given any positive result, change U11
- 2) If the led +28V is off together with the led +320V
- 2a) Check the MAIN POWER INPUT where you can measure the working voltage
- 2b) Check the main fuse, if it is blown check VR1 (normally it has a resistance $= \infty$). If it is in short circuit you must change it.
- 2c) Check D1 (Bridge Rectifier), if it is ok check C65.
- 2d) If the fuse is still blown, change U11







•panip•





•ccip•



•ccipS•





City COLOR

SPARE PARTS, TECHNICAL DRAWINGS PARTI DI RICAMBIO, DISEGNI TECNICI

N°	PARTS DESCRIPTION			
	REF:A/BASE			
	REF:A/BASE			
1	Base box			
2	Lamp cable complete (for 1800 only)			
_ 2/a	Lamp cable complete (for 2500 H.P. only)			
3	5 pin female DMX connector			
4	5 pin male DMX connector			
5	5 pin connectors cover			
6	DMX panel cover			
7	Spring lock			
8	PG 7			
9	Input connector (for 1800 only)			
9/a	Input connector (for 2500 H. P. only)			
10	Condenser complete (for 1800 only)			
10/a	Condenser complete (for 2500 H.P. only)			
11	Connector board			
12	Handles			
14	Igniter (for 1800 only)			
15	Thermal switch			
16 17	Hinge			
17/a	Magnetic ballast complete (for 1800 only) Magnetic ballast complete (for 2500 H.P. only)			
177a	Bracket			
19	Base handles			
20	Cable (complete)			
21	Motors board support plate			
22	Display board support plate			
23	Display board			
24	Motors board			
25	Lateral cover counterplate dx			
26	Bracket stop			
27	Air convoyer			
28	Fan connector			
29	Dust proof filter support (sx)			
29/a	Dust proof filter			
30	Tab (sx)			
31	Dust proof filter support (dx)			
32 33	Tab (dx) Fan plate			
33 34	Fan base box (small)			
35	Fan head (big)			
36	Friction			
37	Fan support			
38	Cable			
39	Lateral cover			
40	Gum			
41	Menu panel adhesive			
42	Head stop support			
43	Head stop			
44	Base plate			
45	Lable			
46	Lateral cover counterplate sx			
47	Supprt cable air convoier			
48	Plate connector			
49	Screw handle			
50	Program lable			

PARTS DESCRIPTIONImage: Construct of the section of the sectio						
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144 Spacer gum (for 2500 H.P. only) 145 Spacer (for 2500 H.P. only) 146 Igniter cover (for 2500 H.P. only) 147 Igniter cover gum (for 2500 H.P. only) 148 Insulator plate 149 Cable lamp/igniter	142	Thermal switch				
145 Spacer (for 2500 H.P. only) 146 Igniter cover (for 2500 H.P. only) 147 Igniter cover gum (for 2500 H.P. only) 148 Insulator plate 149 Cable lamp/igniter	143	Igniter (for 2500 H.P. only)				
146 Igniter cover (for 2500 H.P. only) 147 Igniter cover gum (for 2500 H.P. only) 148 Insulator plate 149 Cable lamp/igniter	144	Spacer gum (for 2500 H.P. only)				
 147 Igniter cover gum (for 2500 H.P. only) 148 Insulator plate 149 Cable lamp/igniter 	145	Spacer (for 2500 H.P. only)				
148 Insulator plate 149 Cable lamp/igniter	146	Igniter cover (for 2500 H.P. only)				
149 Cable lamp/igniter	147	Igniter cover gum (for 2500 H.P. only)				
	148	Insulator plate				
150 Power connector wired (for 2500 H.P. only)	149	Cable lamp/igniter				
(150	Power connector wired (for 2500 H.P. only)				



N°	PARTS DESCRIPTION					
	REF:A/BASE					
45	Lable					
46	Lateral cover counterplate sx					
47	Support cable air convojer					
48	Plate connector					
49	Handle screw					
50	Program lable					
	REF:B/HEAD 2					
61	Stepper motor					
62	Cable pulley					
63	Coarse fine					
64	Pulley					
65	Spacer					
66	Nut					
67	CYM dimmer panel					
68	Wire lock					
69	Wire spacer 1.2					
70	Wire spacer 1.5					
71	Upper yellow blade complete					
72	Lower yellow blade complete					
73	Upper cyan blade complete					
74	Lower cyan blade complete					
75	Lower megenta blade complete					
76	Upper magenta blade complete					
77	Dimmer blade unshaped					
78	Dimmer blade shaped					
79	Steel wire					
82	CYM panel					









• B/HEAD 2•

CHANNEL	FUNCTION	DESCRIPTION	DECIMAL	PERCENT
		•		•
1	MOTOR SPEED	SPEED MOVEMENT		
		Slow	063	0%24%
		Mid1	64127	25%50%
		Mid2	128191	51%74%
		Fast	192255	75%100%
2	CYAN	CONTINUOUSLY VARIABLE		
		White	0	0%
		Full color	255	100%
3	YELLOW	CONTINUOUSLY VARIABLE		
		White	0	0%
		Full color	255	100%
4	MAGENTA	CONTINUOUSLY VARIABLE		
		White	0	0%
		Full color	255	100%
5	DIMMER	CONTINUOUSLY VARIABLE		
		0%	0	0%
		100%	255	100%
6	BASIC COLORS/RAINBOW	Color mixing	025	0%10%
		Cyan	2651	10%20%
		Yellow	5277	20%30%
		Magenta	78103	30%40%
		Blue	104129	40%50%
		Red	130155	50%60%
		Green	156181	60%70%
		Color mix sequence (slow)	182207	70%80%
		Color mix sequence (mid)	208233	80%90%
		Color mix sequence (fast)	234255	90%100%
7	REMOTE RESET/LAMP OFF	Normal	0127	0%50%
		Reset (delay)	128191	50%75%
		Normal	192250	75%98%
		Lamp off (delay)	251255	98%100%

PROGRAM	FUNCTION
01	Red Magenta Yellow: color mix sequence (slow)
02	Red Magenta Yellow + White color mix sequence (slow)
03	Green Cyan Yellow: color mix sequence (slow)
04	Green Cyan Yellow + White color mix sequence (slow)
05	Blue Cyan Magenta: color mix sequence (slow)
06	Blue Cyan Magenta + White color mix sequence (slow)
07	All colors: color mix sequence (slow)
08	All colors + White color mix sequence (slow)
09	All colors: color mix sequence (mid)
10	All colors + White color mix sequence (mid)
11	All colors + white color mix sequence (mid+)
12	All colors - color mix sequence (mid+)
13	All colors + white color mix sequence (fast)
14	Basic color (fast)
15	Basic color + White (fast)
16	Wood (static)
17	Magenta (static)
18	Red (static)
19	Light Red (static)
20	Orange (static)
21	Yellow (static)
22	Cyan (static)
23	Light Cyan (static)
24	Green (static)
25	Light Green (static)
26	White (static)
27	Ten colors + White (slow)





Dichiarazione $\mathbf{C}\mathbf{\epsilon}$ di conformità Declaration $\mathbf{C}\mathbf{\epsilon}$ of conformity

Doc. 317-1A REV 3 02/03 CITYCOLOR 2500W Ip54 CE 02/03

La ditta: The firm: STUDIO DUE s.r.l. Strada Poggino, 100 01100 VITERBO ITALY

dichiara sotto la propria responsabilità che il prodotto: declare under our sole responsability that the product:

CITYCOLOR 2500W IP54 codice 0003

è conforme alle norme: is in conformity with the standard:

> EN 60598-1 Ed. VII (CEI 34-23 Ed. II) EN 60598-2-17 Ed. II (CEI 34-38 Ed. II)

CEI EN 61000-3-2
CEI EN 61000-3-3
CEI EN 60065
CEI EN 55022
CEI EN 55011

CEI EN 55013 CEI EN 55014-1 CEI EN 55013-1 CEI EN 55015

CEI EN 61000-4-2 CEI EN 61000-4-4 CEI EN 61000-4-5 CEI EN 61000-4-6 CEI EN 61000-4-3 CEI EN 61000-4-11 CEI EN 55103-1 CEI EN 55103-2

e quindi ai requisiti essenziali delle Direttive: and therefore according to essential requirement of Directives:

LV 73/23 AND 93/68 EEC EMC 89/336 AND 93/68 EEC

Data di apposizione CE : Date of CE marking : 03

VITERBO,





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WARRANTY / GARANZIA

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Company name:	~ 4		Que	Studio	Due
Mr./Mrs./Miss:					Audio II
Address:		Jr Z	C. Aue	Et dia 1	
Dealer:		Studio Du	and B	studio	
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	dia Duci estati				

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Head Office: STUDIO DUE s.r.l. (I)

Str. Poggino, 100 - 01100 Viterbo (Italy) tel. +39.0761.352520 fax +39.0761.352653 info@studiodue.com

STUDIO DUE (UK)

3 Encon Court Owl Close Moulton Park Industrial Estate Northampton England UK - NN3 6 HZ tel. +44.1933.650.820 info@studiodue.co.uk

STUDIO DUE Far East LTD (HK)

Unit 13 On 7th Floor, Heng Ngai Jewelry Centre, 4 Hok Yuen Street East Hunghom, Kowloon, (Hong Kong) tel. +852.29542141 fax +852.23302515 info@studiodue.com.hk

STUDIO DUE lighting technology (PRC)

Shen Zhen LTD (China)

www.studiodue.com for technical info service@studiodue.com