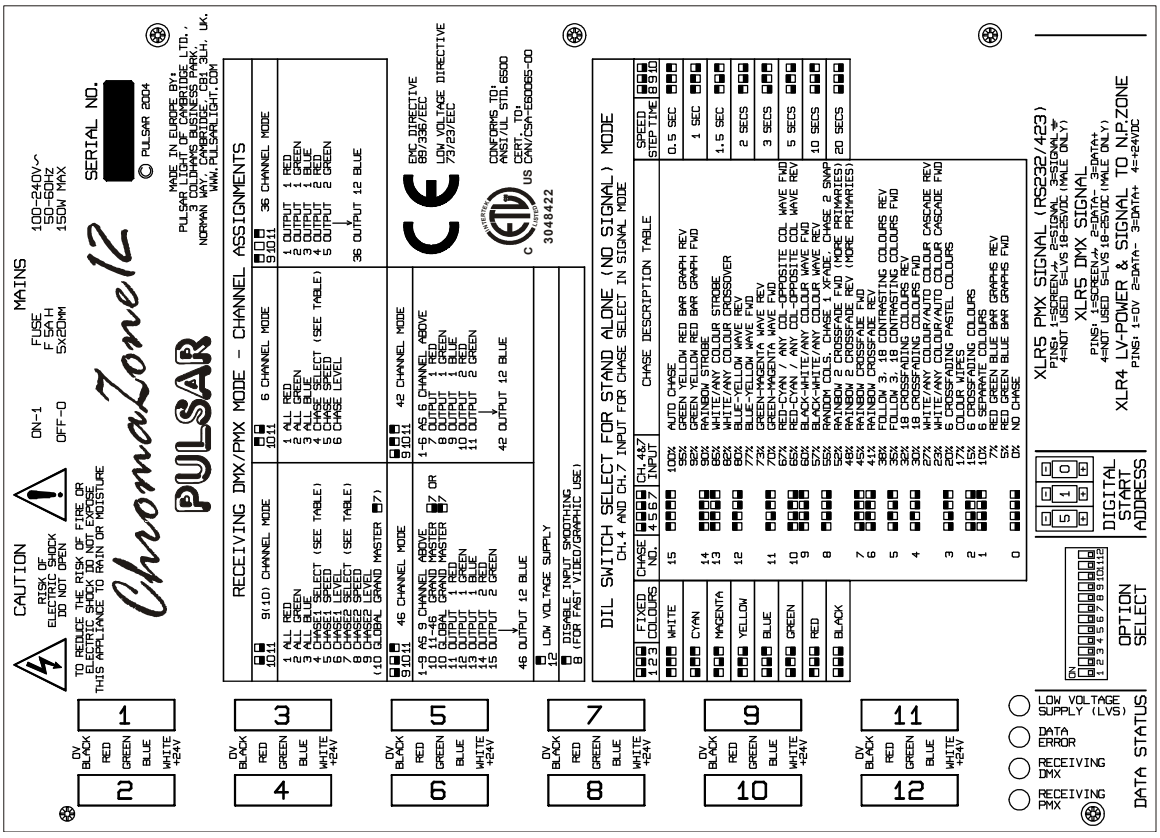
ChromaRange™ ~ ChromaZone™



SPECIFICATION

24500	-	**ChromaZone12™Controller+50m ChromaFlex**
24550NC		**ChromaZone 6™ Controller - No ChromaFlex**
CPSU2	-	**ChromaPSU2™ PSU**
CBANK2	-	**ChromaBank™ Mk 2 (Black)**
8075G	-	**ChromaFlex Grey 5 Core Multiway Cable**

Pulsar's Chroma Lighting Fixtures - ChromaLight™, ChromaDome™, ChromaFlush™, ChromaStrip™, ChromaPanel™, ChromaScape™, ChromaHearts™, etc., contain state of the art, high brightness, high efficiency Red, Green and Blue LEDs. These three primary colours can be mixed together to make an incredible pallet of 16.7 million colours.

Each **ChromaFixture™** requires a +24VDC supply at up to 520mA and three 0 to +10V control signals to control the level of Red, Green and Blue. These control signals and the low voltage power are provided by the **ChromaZone 12 and ChromaZone 6** controllers which can drive up to **12** or **6 ChromaFixtures** respectively.

The **ChromaZone** has numerous chases and effects built in making it possible to achieve fantastic effects without programming. These internal effects can be selected via the DIL switches on the side of the unit in Stand Alone mode or from a controller using a digital **PMX** (**P**ulsar **M**ultiple**X**) or **DMX** (**D**igital **M**ultiple**X**) signal.

When receiving a signal the **ChromaZone 12** can operate in 6, 9, 10, 36, 42 or 46 Channel Modes. The **ChromaZone 6** operates in 6, 9, 10, 18, 24, or 28 Channel Modes. Please see the lid printing page for details of these Operating Modes, how to select them, Channel Listings, and further information.

The ChromaZone has mounting Flanges making it ideal for wall, ceiling or rig mounting, close to the fixtures it is driving.

The **ChromaBank**, which contains **12 ChromaHearts**, has a built in **ChromaZone 12** to power and drive them.

Please see the **ChromaFixtures Leaflet** for details of the luminaires themselves.

NB - Patents applied for. Trade Marks, Copyright, Registered and Unregistered Design Rights apply on all Chroma Products.

CHROMAZONE MAINS SUPPLY

Mains Supply - The **ChromaZone** works correctly on any mains voltage from 100-240 VAC, 50-60Hz, (self adjusting). Power consumption ranges from 10 Watts to 150 Watts depending on the number of fixtures connected and their output levels.

A **mains cable** is provided with an IEC female connector attached. The other end of the cable should be fitted with a suitably approved and rated mains plug. Note: in some countries it is a requirement that such a plug be fitted by a qualified electrician.

CABLE COLOURS

Green/Yellow = ⏚ Earth / Ground

Brown = Live / Phase / Hot

Blue = Neutral

WARNING - THIS APPLIANCE MUST BE EARTHED

For safety we recommend the use of a Residual Current Circuit Breaker. An RCCB MUST be used when powering e.g. ChromaScapes in wet environments.

Electronics On/Off Switch with built in **Indicator Neon**.

Electronics Mains Fuse: 5 Amp, HRC, 5x20mm.

CHROMAZONE SIGNALS AND OPERATION

Data Status Indicators:

Receive DMX LED - This green Light Emitting Diode shows that DMX data is reaching the **ChromaZone**.

Receive PMX LED - This yellow LED shows that PMX data is reaching the **ChromaZone**.

Data Error LED - This red LED shows that the **ChromaZone** did not recognise the last information received. Errors can often occur if the DMX line is not terminated. The end of the DMX line must always be terminated with a 100R or 120R resistor connected between signal+ and signal-, this resistor can be conveniently mounted in a 5 pin XLR plug which should be inserted in the last unit on the DMX line.

Unlike DMX, PMX may be branched and needs no termination.

LVS LED - This blue LED shows that a Low Voltage Supply (+23VDC, 120mA max.) is connected to Pin 5 of the male XLR connector, via switch 12, to power a desk or other equipment.

Start Address Switches - the **ChromaZone** receives a block of 6 to 46 channels from the signal, depending on the operating mode – see lid printing. The **Start Address Switch** selects the number of the first channel in the block. Dial up the start address required using the Hundreds, Tens and Units switches provided.

Channel functions:
The channels have the following functions in 46 Channel mode and subsets of these in the other operating modes – see lid printing:

Channel 1 - All Red Master
Channel 2 - All Green Master
Channel 3 - All Blue Master
Channel 4 - Internal Chase 1 Select - see front panel printing
Channel 5 - Internal Chase 1 Speed
Channel 6 - Internal Chase 1 Level Master
Channel 7 - Internal Chase 2 Select - see front panel printing
Channel 8 - Internal Chase 2 Speed
Channel 9 - Internal Chase 2 Level Master
Channel 10 - Master for the individual RGB Chs 11-46 (Option 7 Dn)
Global Grand Master (Option 7 Up).
Channel 11 - ChromaFixture No.1 Red
Channel 12 - ChromaFixture No.1 Green
Channel 13 - ChromaFixture No.1 Blue
Channel 14 - ChromaFixture No.2 Red … etc through to Channel 46

12 Way DIL Switch – in Stand Alone Mode when not receiving:
The DIL (Dual In Line) switch is used to select various fixed colours, chases and chase speeds. Please see the lid printing for full details.

Switches 1, 2, 3 select All Red, All Green and All Blue.

Switches 4, 5, 6 and 7 select from 14 pre-programmed internal chases. The Auto Chase runs a sequence of these chases.

Switches 8, 9, 10 select the chase speed.

12 Way DIL Switch - when receiving a digital signal:

Switch 11 (with 9 & 10 down) selects 9 or 28/46 channel mode

Switch 11 (with 9 down but 10 up) selects 6 or 24/42 ch. mode.

Switch 11 (with 9 up) selects 18/36 channel mode.

Switch 8 disables the input smoothing for fast response to video graphics signals for example.

Switch 7 makes the 11-46 Master on ch.10 a Global Grand Master.

Switch 12 connects the LVS to pin 5 of the MALE XLR.

PMX/DMX In/Thru 5 Pin XLR Connectors

Digital Control Signals: Two 5 pin XLR sockets (in/thru) are provided. The pin connections of the sockets are:

PMX (RS232/423) SIGNAL	**DMX SIGNAL**
Pin 1 = Screen - Chassis Earth	Pin 1 = Screen- Chassis Earth
Pin 2 = Signal	Pin 2 = Signal **-**
Pin 3 = Signal Earth	Pin 3 = Signal **+**
Pin 4 = no connection	Pin 4 = no connection
Pin 5 = LVS (male only)	Pin 5 = LVS (male only)

4 PIN XLR Low Voltage and DMX Output Socket
From March 2008 a 4 pin XLR output socket is fitted to the ChromaZone12. This can provide 24VDC Low Voltage Power and DMX to feed a ChromaZone12NP (No Power) and may be used when the ChromaZone12 is not fully loaded to its 200W limit.
This is the most economical control solution when many low power fixtures are to be driven with individual DMX control, for example in Low Resolution Video displays. The standard ChromaZone12 can power up to five ChromaMR16 fittings per output or up to 12 ChromaPoint fixtures, but all the fixtures on one output would do the same thing. Now, a number of ChromaZone12NPs and low power fittings may be "slaved" from one powered ChromaZone12 until its power limit of 200W is reached. E.g. up to 4 ChromaZoneNPs and 60 ChromaMR16 fixtures, or 11 ChromaZoneNPs and 144 ChromaPoints could be connected to one powered ChromaZone12 - all individually controllable.

The pin connections of the 4 Pin XLR socket are as follows:

LV POWER: Pin 1 = 0V / Chassis Earth Pin 4 = +24VDC
DMX SIGNAL: Pin 2 = Signal **-** Pin 3 = Signal **+**

XLR4 "Scroller Cables" are used for interconnection.

Outputs – 6/12 five pole, cage clamp connectors are provided on the side panel. Each connector provides the necessary power and signal to drive a ChromaFixture.

Two **Connectors** are supplied with many of the **ChromaFixtures**. 50m of grey **ChromaFlex** is supplied with each **ChromaZone 12** and extra **ChromaFlex** is available.

It is recommended that the maximum run of **ChromaFlex** between the **ChromaZone** and a **ChromaFixture** is 20m.

Wiring: Strip back the outer insulation and the insulation from the cores of the **ChromaFlex** a suitable distance. Insert a flat blade screwdriver into the cage clamp connector and press it down to open the terminal. Insert the wire. Release the screwdriver. The spring loaded cage clamp holds the wire tightly ensuring a long term, reliable connection.

Pin No.	Function	ChromaFlex Core Colour
1	0V	Black
2	Red 0 -10V	Red
3	Green 0 -10V	Green
4	Blue 0 -10V	Blue
5	+24Vdc	White

FUSES AND PRECAUTIONS

Failure of the **ChromaZone Electronics 5 Amp, HRC, 5x20mm Fuse,** usually indicates an internal fault requiring servicing by a qualified engineer.

Each 24VDC output is protected by an internal, resettable solid state fuse. Switch off the unit, fix the fault and switch on again to reset the fuse.

The 0-10V signal inputs and outputs are protected against shorts to 24V, 0V and static damage.

OTHER INFORMATION

PORTABLE APPLIANCE TESTING - The **Pulsar ChromaZone** may be safely Earth Bond and Insulation Tested.

STANDARDS - The **Pulsar ChromaZone** complies with the following International and National Standards:

Electrical Safety - IEC65, EN60065, BS415

EMC - EN50081-1, EN55022, EN50082-1

Index of Protection - IP20

Marking Directive 93/68/EEC - The **Pulsar ChromaZone** meets both the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.

Conforms to: ANSI/UL Standard 6500
Certified to: CAN/CSA-E60065-00

3048422

GUARANTEE - 12 months from the date of original purchase. The guarantee is limited to parts and labour. The guarantee is void if the unit is misused, unauthorised persons perform repairs, or the incorrect type of fuse has been used. In the unlikely event of a fault occurring, do not use without repair. Return the unit to your supplier with a description of the fault, or direct to Pulsar for immediate attention.

DIMENSIONS AND WEIGHTS

Code	Unit	Width mm	Height mm	Depth mm	Weight kg
24500	ChromaZone12 + 50m ChromaFlex	210.0	342.0	70.0	9.0
24550NC	ChromaZone 6 - no cable	210.0	342.0	70.0	2.0

ChromaZone™ Software Version 3.1

Pulsar ChromaZone / ChromaBank Software Version No. 3.1 (MAIN micro 3.1 29-11-04 + DMX micro 3.0 26-02-04) has many exciting new features. The additions since version 1.2 are: • Two built in Chases – allowing superimposition of effects and crossfading between chases. Chase 1 and 2 use the same table of 31 chases but there are differences to give you more choice - Chase 1 uses the Master Red, Green and Blue Channels 1, 2 & 3 to change the colour of some chases (see table) while Chase 2 stays white and uses them to give a background colour. • There are chase enhancements - shown in ***Bold Italic*** below. • The chases now have smoother waveforms. • There are 4 new operating modes: 9 Channel, 10 Channel (from 3.1), 36 Channel and 46 Channel Modes, in addition to the original 6 and 42 Channel Modes. • There's a Master Dimmer Channel (Ch.10) for the 36 individual RGB channels and, with option 7 up, this becomes a ***Global Grand Master*** for the All R/G/B and Chases Levels too (from 3.1). • A new Dimmer Law doubles the bottom end resolution for smoother dimming and increases the top end action. • Input Smoothing Disable Switch for fast display of video graphics, ***and video frame rate capability*** *(from 3.0)*. • Plus a new, more useful choice of Stand Alone Chase Speeds. • Please see the lid printing pages for details of the Operating Modes and how to select them, Channel Listings, and further information. • Version 3.1 is suitable for both the ChromaZone 12 and the ChromaZone 6.

DIL Switch	Chase	Ch.4&7	Bit	Chase	Notes
4 5 6 7	No.	Input	No.	Description	
■ ■ ■ ■	15	100%	255	Auto Chase	
		95%	242	Green Yellow Red Bar Graph Rev	Use Ch.1
		92%	235	Green Yellow Red Bar Graph Fwd	Use Ch.1
■ ■ ■ □	14	90%	230	Rainbow Strobe	
■ ■ □ ■	13	85%	217	White / Any Colour Strobe	Chs.1, 2, & 3 set colour
		82%	209	White / ***Any Colour*** Crossover	***New: Chs. 1, 2 & 3 set colour***
■ ■ □ □	12	80%	204	Blue-Yellow Wave Rev	
		77%	196	Blue-Yellow Wave Fwd	
		73%	186	Green-Magenta Wave Rev	
■ □ ■ ■	11	70%	179	Green-Magenta Wave Fwd	
		67%	171	Red-Cyan / ***AnyCol/Op.Col*** Wave Fwd	***New: Chs. 1, 2 & 3 set colour*** All 3 at 0% = Red-Cyan
■ □ ■ □	10	65%	166	Red-Cyan / ***AnyCol/Op.Col*** Wave Rev	
■ □ □ ■	9	60%	153	Black-White/***AnyColour*** Wave Fwd	***New: Chs. 1, 2 & 3 set colour*** All 3 at 0% = White.
		57%	145	Black-White/***AnyColour*** Wave Rev	
■ □ □ □	8	55%	140	Random Cols. ***Chs1 Xfade, Chs2 Snap***	***New in 3.1: Chase1 Xfades***
		52%	133	Rainbow 2 Crossfade Fwd	Wider primary colours to compensate for extra diffusion
		48%	122	Rainbow 2 Crossfade Rev	
□ ■ ■ ■	7	45%	115	Rainbow Crossfade Fwd	Equal width primary & secondary colours
□ ■ ■ □	6	41%	105	Rainbow Crossfade Rev	
		38%	97	"Follow 3" 18 Contrasting Cols Rev	
□ ■ □ ■	5	35%	89	"Follow 3" 18 Contrasting Cols Fwd	
		32%	82	18 Crossfading Colours Rev	
□ □ ■ ■	4	30%	77	18 Crossfading Colours Fwd	
		27%	69	White/AnyColour/***AutoColour*** Cascade Rev	Chs. 1, 2 & 3 set colour. All 3 at 0% = White. ***New: All 3 at 100% = Auto Colour Change***
		23%	59	White/AnyColour/***AutoColour*** Cascade Fwd	
□ □ □ □	3	20%	51	6 Crossfading Pastel Colours	
		17%	43	Colour Wipes	
□ □ □ ■	2	15%	38	6 Crossfading Colours	
□ □ □ □	1	10%	26	6 Separate Colours	
		7%	18	Red Green Blue Bar Graphs Rev	Use Chs. 1, 2 & 3
		5%	13	Red Green Blue Bar Graphs Fwd	Use Chs. 1, 2 & 3
□ □ □ □	0	0%	0	No Chase	

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

MAINS

ON-1	FUSE	100-240V~
	F 5A H	50-60Hz
OFF-O	5x20MM	150W MAX

SERIAL NO. [redacted]

ChromaZone6

PULSAR

MADE IN EUROPE BY:
PULSAR LIGHT OF CAMBRIDGE LTD.,
3 COLDHAMS BUSINESS PARK,
NORMAN WAY, CAMBRIDGE, CB1 3LH, UK.
WWW.PULSARLIGHT.COM

1 / 2 / 3 / 4 / 5 / 6

OV BLACK
RED
GREEN
BLUE
WHITE +24V

RECEIVING DMX/PMX MODE - CHANNEL ASSIGNMENTS

9(10) CHANNEL MODE (10 11)

1 ALL RED
2 ALL GREEN
3 ALL BLUE
4 CHASE1 SELECT (SEE TABLE)
5 CHASE1 SPEED
6 CHASE1 LEVEL
7 CHASE2 SELECT (SEE TABLE)
8 CHASE2 SPEED
9 CHASE2 LEVEL
(10 GLOBAL GRAND MASTER ■7)

6 CHANNEL MODE (10 11)

1 ALL RED
2 ALL GREEN
3 ALL BLUE
4 CHASE SELECT (SEE TABLE)
5 CHASE SPEED
6 CHASE LEVEL

18 CHANNEL MODE (9 10 11)

1 OUTPUT 1 RED
2 OUTPUT 1 GREEN
3 OUTPUT 1 BLUE
4 OUTPUT 2 RED
5 OUTPUT 2 GREEN
↓
18 OUTPUT 6 BLUE

28 CHANNEL MODE (9 10 11)

1-9 AS 9 CHANNEL ABOVE
10 11-46 GRAND MASTER ■7 OR
10 GLOBAL GRAND MASTER ■7
11 OUTPUT 1 RED
12 OUTPUT 1 GREEN
13 OUTPUT 1 BLUE
14 OUTPUT 2 RED
15 OUTPUT 2 GREEN
↓
28 OUTPUT 6 BLUE

24 CHANNEL MODE (9 10 11)

1-6 AS 6 CHANNEL ABOVE
7 OUTPUT 1 RED
8 OUTPUT 1 GREEN
9 OUTPUT 1 BLUE
10 OUTPUT 2 RED
11 OUTPUT 2 GREEN
↓
24 OUTPUT 6 BLUE

■ 12 LOW VOLTAGE SUPPLY

■ 8 DISABLE INPUT SMOOTHING (FOR FAST VIDEO/GRAPHIC USE)

CE

EMC DIRECTIVE 89/336/EEC

LOW VOLTAGE DIRECTIVE 73/23/EEC

C ETL US LISTED INTERTEK 3048422

CONFORMS TO: ANSI/UL STD.6500
CERT. TO: CAN/CSA-E60065-00

DIL SWITCH SELECT FOR STAND ALONE (NO SIGNAL) MODE

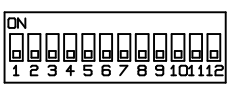
CH.4 AND CH.7 INPUT FOR CHASE SELECT IN SIGNAL MODE

1 2 3	FIXED COLOURS	CHASE NO.	4 5 6 7	CH.4&7 INPUT	CHASE DESCRIPTION TABLE	SPEED STEP TIME	8 9 10
■■■	WHITE	15	■■■■	100%	AUTO CHASE	0.5 SEC	■■■
■■■	CYAN			95%	GREEN YELLOW RED BAR GRAPH REV		
				92%	GREEN YELLOW RED BAR GRAPH FWD	1 SEC	■■■
■■■	MAGENTA	14	■■■■	90%	RAINBOW STROBE		
		13	■■■■	85%	WHITE/ANY COLOUR STROBE	1.5 SEC	■■■
■■■	YELLOW			82%	WHITE/ANY COLOUR CROSSOVER		
		12	■■■■	80%	BLUE-YELLOW WAVE REV	2 SECS	■■■
■■■	BLUE			77%	BLUE-YELLOW WAVE FWD		
				73%	GREEN-MAGENTA WAVE REV	3 SECS	■■■
■■■	GREEN	11	■■■■	70%	GREEN-MAGENTA WAVE FWD		
				67%	RED-CYAN / ANY COL-OPPOSITE COL WAVE FWD	5 SECS	■■■
■■■	RED	10	■■■■	65%	RED-CYAN / ANY COL-OPPOSITE COL WAVE REV		
		9	■■■■	60%	BLACK-WHITE/ANY COLOUR WAVE FWD	10 SECS	■■■
■■■	BLACK			57%	BLACK-WHITE/ANY COLOUR WAVE REV		
		8	■■■■	55%	RANDOM COLS. CHASE 1 XFADE, CHASE 2 SNAP	20 SECS	■■■
				52%	RAINBOW 2 CROSSFADE FWD (MORE PRIMARIES)		
				48%	RAINBOW 2 CROSSFADE REV (MORE PRIMARIES)		
		7	■■■■	45%	RAINBOW CROSSFADE FWD		
		6	■■■■	41%	RAINBOW CROSSFADE REV		
				38%	FOLLOW 3, 18 CONTRASTING COLOURS REV		
		5	■■■■	35%	FOLLOW 3, 18 CONTRASTING COLOURS FWD		
				32%	18 CROSSFADING COLOURS REV		
		4	■■■■	30%	18 CROSSFADING COLOURS FWD		
				27%	WHITE/ANY COLOUR/AUTO COLOUR CASCADE REV		
				23%	WHITE/ANY COLOUR/AUTO COLOUR CASCADE FWD		
		3	■■■■	20%	6 CROSSFADING PASTEL COLOURS		
				17%	COLOUR WIPES		
		2	■■■■	15%	6 CROSSFADING COLOURS		
		1	■■■■	10%	6 SEPARATE COLOURS		
				7%	RED GREEN BLUE BAR GRAPHS REV		
				5%	RED GREEN BLUE BAR GRAPHS FWD		
		0	■■■■	0%	NO CHASE		

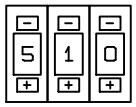
DATA STATUS

○ RECEIVING PMX
○ RECEIVING DMX
○ DATA ERROR
○ LOW VOLTAGE SUPPLY (LVS)

OPTION SELECT



DIGITAL START ADDRESS



DIGITAL INPUT

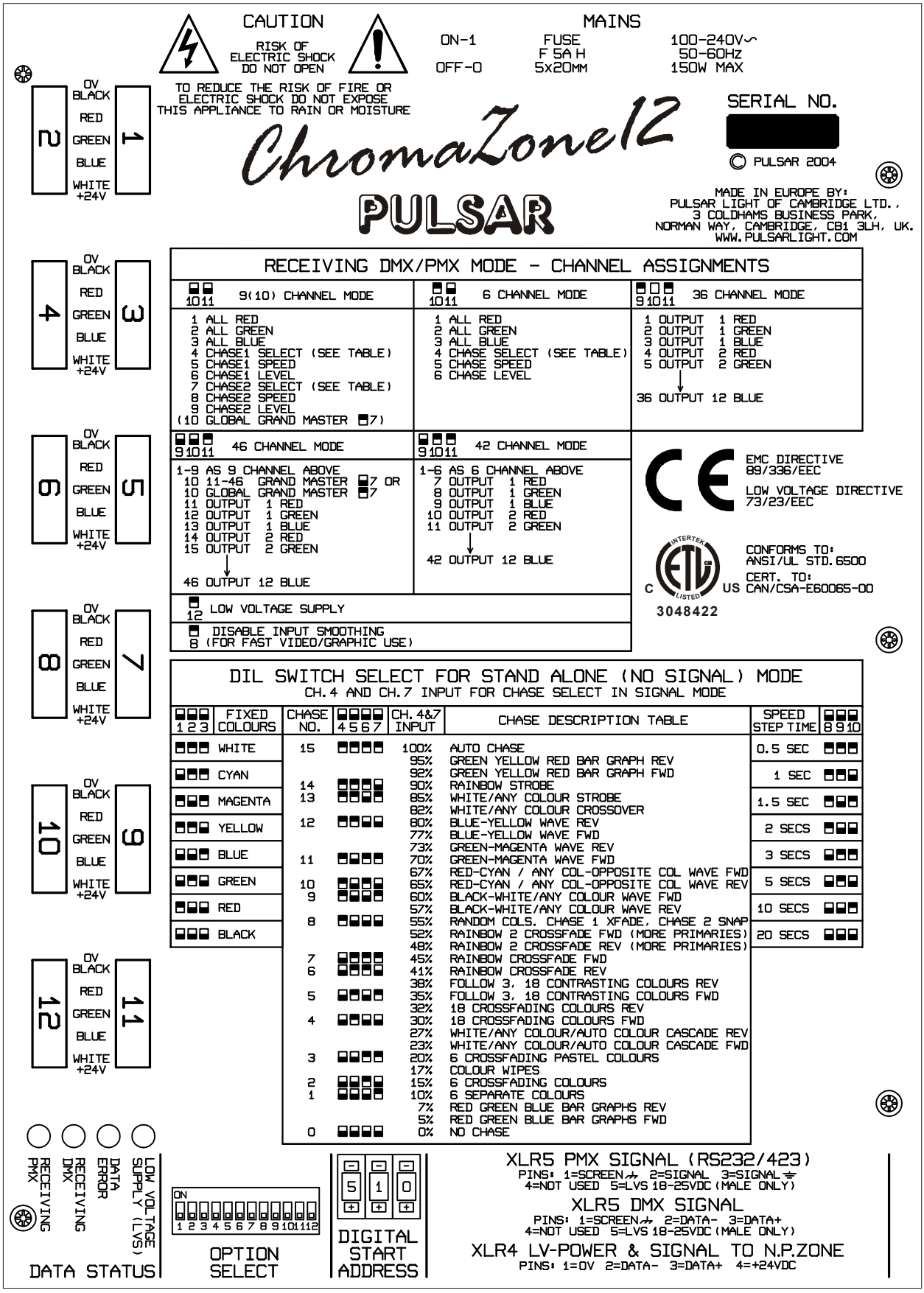
PMX (RS232/423)

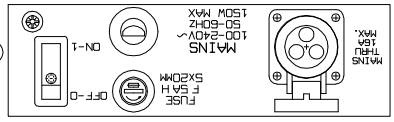
PINS: 1=SCREEN ⏚, 2=SIGNAL, 3=SIGNAL ⏚, 4=NOT USED, 5=LVS 18-25VDC (MALE ONLY)

DMX

PINS: 1=SCREEN ⏚, 2=DATA -, 3=DATA +, 4=NOT USED, 5=LVS 18-25VDC (MALE ONLY)

ChromaZone Printing





ChromaBank 2

PULSAR

SERIAL NO.

[redacted]

3048422

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

EMC DIRECTIVE 89/336/EEC
LOW VOLTAGE DIRECTIVE 73/23/EEC

MADE IN EUROPE BY:
PULSAR LIGHT OF CAMBRIDGE LTD.,
3 COLDHAMS BUSINESS PARK, NORMAN WAY,
CAMBRIDGE, CB1 3LH, UK.

TEL:+44 (0) 1223 403500
FAX:+44 (0) 1223 403501
WWW.PULSARLIGHT.COM

RECEIVING DMX/PMX MODE - CHANNEL ASSIGNMENTS

9(10)CHANNEL MODE (10 11)

1 ALL RED
2 ALL GREEN
3 ALL BLUE
4 CHASE1 SELECT(SEE TABLE)
5 CHASE1 SPEED
6 CHASE1 LEVEL
7 CHASE2 SELECT(SEE TABLE)
8 CHASE2 SPEED
9 CHASE2 LEVEL
(10 GLOBAL GRAND MASTER ■7)

6 CHANNEL MODE (10 11)

1 ALL RED
2 ALL GREEN
3 ALL BLUE
4 CHASE SELECT(SEE TABLE)
5 CHASE SPEED
6 CHASE LEVEL

46 CHANNEL MODE (9 10 11)

1-9 AS 9 CHANNEL ABOVE
10 11-46 GRAND MASTER ■7
10 GLOBAL GRAND MASTER ■7
11 OUTPUT 1 RED
12 OUTPUT 1 GREEN
13 OUTPUT 1 BLUE
14 OUTPUT 2 RED
15 OUTPUT 2 GREEN
↓
46 OUTPUT 12 BLUE

42 CHANNEL MODE (9 10 11)

1-6 AS 6 CHANNEL ABOVE
7 OUTPUT 1 RED
8 OUTPUT 1 GREEN
9 OUTPUT 1 BLUE
10 OUTPUT 2 RED
11 OUTPUT 2 GREEN
↓
42 OUTPUT 12 BLUE

36 CHANNEL MODE (9 10 11)

1 OUTPUT 1 RED
2 OUTPUT 1 GREEN
3 OUTPUT 1 BLUE
4 OUTPUT 2 RED
5 OUTPUT 2 GREEN
↓
36 OUTPUT 12 BLUE

■ (12) LOW VOLTAGE SUPPLY

■ (8) DISABLE INPUT SMOOTHING (FOR FAST VIDEO/GRAPHIC USE)

DIL SWITCH SELECT FOR STAND ALONE (NO SIGNAL) MODE

CH.4 AND CH.7 INPUT FOR CHASE SELECT IN SIGNAL MODE

(1 2 3) FIXED COLOURS	SPEED STEP TIME (8 9 10)
WHITE	0.5 SEC
CYAN	1 SEC
MAGENTA	1.5 SEC
YELLOW	2 SECS
BLUE	3 SECS
GREEN	5 SECS
RED	10 SECS
BLACK	20 SECS

CHASE NO.	(4 5 6 7)	CH.4&7 INPUT	CHASE DESCRIPTION TABLE
15		100%	AUTO CHASE
		95%	GREEN YELLOW RED BAR GRAPH REV
		92%	GREEN YELLOW RED BAR GRAPH FWD
14		90%	RAINBOW STROBE
13		85%	WHITE/ANY COLOUR STROBE
		82%	WHITE/ANY COLOUR CROSSOVER
12		80%	BLUE-YELLOW WAVE REV
		77%	BLUE-YELLOW WAVE FWD
		73%	GREEN-MAGENTA WAVE REV
11		70%	GREEN-MAGENTA WAVE FWD
		67%	RED-CYAN / ANY COL-OPPOSITE COL WAVE FWD
10		65%	RED-CYAN / ANY COL-OPPOSITE COL WAVE REV
9		60%	BLACK-WHITE/ANY COLOUR WAVE FWD
		57%	BLACK-WHITE/ANY COLOUR WAVE REV
8		55%	RANDOM COLS. CHASE 1 XFADE, CHASE 2 SNAP
		52%	RAINBOW 2 CROSSFADE FWD (MORE PRIMARIES)
		48%	RAINBOW 2 CROSSFADE REV (MORE PRIMARIES)
7		45%	RAINBOW CROSSFADE FWD
6		41%	RAINBOW CROSSFADE REV
		38%	FOLLOW 3, 18 CONTRASTING COLOURS REV
5		35%	FOLLOW 3, 18 CONTRASTING COLOURS FWD
		32%	18 CROSSFADING COLOURS REV
4		30%	18 CROSSFADING COLOURS FWD
		27%	WHITE/ANY COLOUR/AUTO COLOUR CASCADE REV
		23%	WHITE/ANY COLOUR/AUTO COLOUR CASCADE FWD
3		20%	6 CROSSFADING PASTEL COLOURS
		17%	COLOUR WIPES
2		15%	6 CROSSFADING COLOURS
1		10%	6 SEPARATE COLOURS
		7%	RED GREEN BLUE BAR GRAPHS REV
		5%	RED GREEN BLUE BAR GRAPHS FWD
0		0%	NO CHASE

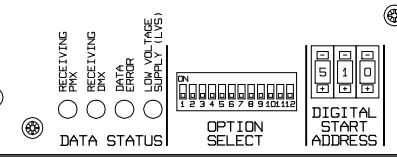
PMX (RS232/423)

PINS: 1=SCREEN ⏚, 2=SIGNAL, 3=SIGNAL ⏚,
4=NOT USED, 5=LVS 18-25VDC (MALE ONLY)

DMX

PINS: 1=SCREEN ⏚, 2=DATA -, 3=DATA +,
4=NOT USED, 5=LVS 18-25VDC (MALE ONLY)

DIGITAL INPUT



IMPORTANT SAFETY INSTRUCTIONS

Read the Product Instruction Leaflet and this Safety Instructions Leaflet before attempting to install or operate this apparatus.

Keep this leaflet and the Product Instruction Leaflet for future reference.

Observe ALL warnings indicated by the  symbol, both in the Product Instruction Leaflet and on the apparatus.

Follow ALL instructions given in the Product Instruction and this Safety Leaflet. Failure to do so may result in serious injury or death.

Protect the power cord from being walked on or pinched, particularly at plugs, auxiliary outputs, and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer (Pulsar Light of Cambridge Ltd. UK).

Use only with the stand/bracket or other mounting arrangement specified in the Product Instruction Leaflet. In case of doubt, consult with the manufacturer (Pulsar Light of Cambridge Ltd. UK).

Unplug this apparatus before lightning storms or when unused for long periods.

Refer all servicing to suitably qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Clean only with a DRY cloth.

Protect the apparatus from dripping and splashing.

DO NOT place objects containing liquids on the apparatus.

DO NOT use this apparatus near water or in a condensing atmosphere, unless explicitly stated in the Product Instruction Leaflet.

DO NOT block any of the ventilation openings. Install the apparatus as specified in the Instruction Leaflet.

DO NOT defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is for YOUR safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete unit.

Mains Supply Cable colours

Green/Yellow = ⏚ Earth / Ground
Brown = Live / Phase / Hot
Blue = Neutral / Grounded Conductor