

UTOP [2505



User Instructions

American DI

4295 Charter Street Los Angeles CA. 90058 www.americandj.com

Utopia 250S™

General Information

Unpacking: Thank you for purchasing the Utopia 250S[™] by American DJ_®. Every Utopia 250S[™] has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all equipment necessary to operate the unit has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: This unit use a single color/gobo wheel combination for vibrant colors and extravagant gobo patterns. The Utopia 250S[™] is an intelligent fixture that can run In DMX mode, as a stand alone sound active piece, or in a Master/Slave configuration. The Utopia 250S[™] comes with several build in programs and is best used in multiples of four. This piece is best used with a fog or haze machine to enhance the beam output. When used in DMX mode channel 4 access a special strobe function. When used as a stand alone unit or when used in multiples linked in a master/slave configuration an optional Utopia/C controller may be used. The optional controller will access different programs and control a blackout function.

Customer Support: American DJ_® provides a toll free customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.americandj.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice:	(800) 322-6337
Fax:	(323) 582-2610
E-mail:	support@americandj.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact your nearest American $DJ_{\ensuremath{\oplus}}$ dealer.

General Instructions

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

Utopia 250S™

Product Registration

The Utopia 250STM carries a one year (365 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Please contact American DJ_{\odot} customer support for a R.A. number.

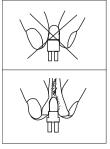
Utopia 250S™

Features

- Micro-Stepping Motors for Smooth Color and Gobo Transitions
- DMX-512 Protocol Compatible (Uses Four DMX Channels)
- Full Manual Focusing
- Fan Cooled.
- 17 Color/Gobo Combinations Plus Spot.
- Master/Slave Operation
- · Internal Microphone with Volume Sensitivity Knob
- Easy Lamp Replacement
- ZB-ELC 24v/250w Lamp
- Variable Speed Strobe Function
- Optional Utopia/C Remote Controller

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Halogen Lamp Warning



This fixture is fitted with halogen lamps which are highly susceptible to damage if improperly handled. Never touch the lamps with your bare fingers as the oil from your hands will shorten lamp life. Also, never move the fixture until the lamps have had ample time to cool. Remember, lamps are not covered under warranty conditions.

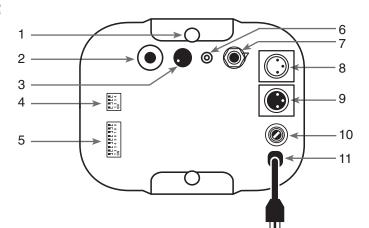
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Safety Precautions

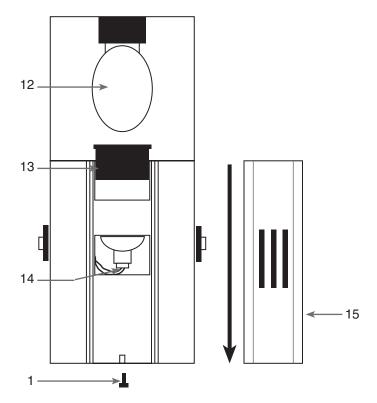
- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 7 for cleaning details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Controls and Functions

REAR



FRONT



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1. Thumb Screw - This thumb screw holds the lamp socket assembly cover (16) into place.

2. Microphone - This microphone receives external low frequencies to trigger the unit in Sound-Active and Master/Slave mode.

3. Audio Sensitivity Knob - This adjust audio sensitivity of the internal microphone (3). Turning the sensitivity knob in the clockwise direction will increase the sensitivity to sound. Turning the knob in the counter clockwise direction will decrease the fixture's sensitivity to sound.

4. Option Switches - These switches will activate one of four options:

- *Switch 1:* Focus When activated this switch will center the mirror with a white spot. This will allow you to focus the beam properly.
- *Switch 2:* Sound Active Turning this switch to the on position will activate sound-active mode.
- *Switch 3:* Inverted Pan When activated this switch will invert the PAN value. Left will become right and vice versa.
- *Switch 4:* Inverted Tilt When activated this switch will invert the TILT value. Up will become down and vice versa.

5. Dip Switches - These switches serve two functions. In master slave mode these switches are used to assign a specific head address. In DMX mode these switches are used to assign a DMX address to the unit. In DMX mode each switch corresponds to a specific value based on binary code. See page 7 for a detailed explanation of DMX binary code.

6. Power Indicator - This light will flash when the unit is in use.

7. Utopia/C Controller Jack - This jack is for use with the optional Utopia/C Blackout controller only. *Do not attempt to connect an audio signal this jack, this will damage the PC board and void your manufactures warranty!*

8. XLR Input Jack - This jack is used to accept an incoming DMX signal or Master/Slave signal.

Controls and Functions

DMX signal to another DMX fixture, or transmit a Master/Slave signal to the nest Utopia 250S[™] in the chain. For best results in DMX or Master/Slave mode terminate this jack if it is the last unit in the chain. See *"Terminator"* on page 7.

10. Fuse Holder - This housing stores the 3 amp GMA protective fuse. Always replace with the exact same type fuse, unless other wise instructed, by an authorized American DJ_{\odot} service technician.

11. Power Cord - Connect only to a matching power outlet. Never use this fixture is the ground prong has been removed or broken off.

12. Mirror - This is a highly reflective surface mirror specifically designed to optimize and enhance beam output. Never use glass cleaner that contain ammonia to clean the surface of the mirror (such as Windex).

13. Lens - This is a fully focusing high quality lens. Focus the lens by manually turning the lens in a clockwise or counter-clockwise direction.

14. Lamp Socket Assembly - This assembly holds a ZB-ELC (24v/250w) lamp. A long life version of lamp may be used in place of the original lamp (ZB-ELC3 300 hours).

15. Lamp Socket Assembly Plate - This plate accesses the lamp socket assembly.

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Operation

Universal DMX Control: This function allows you to use a universal DMX 512 controller as the American DJ_☉ DMX Operator[™] or Show Designer.[™] to control mirror movement and the color/gobo wheel. The use of a DMX controller will allow you to customize the use of fixtures allowing you to control the rotation direction as well as the rotation speed. Operating through a DMX controller allows the freedom to create unique programs tailored to one's individual needs.

- 1. The Utopia 250S[™] uses four DMX channels. Channel 1 controls pan, channel 2 controls tilt, channel 3 controls the color/gobo wheel, and channel 4 controls the strobe function. See page 14 for detailed description of the DMX traits.
- 2. To control your fixture in DMX mode, follow the set-up procedures

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on pages 5 - 7 as well as the set-up specifications that are included with your DMX controller.

- 3. Use the controller's faders to control the various DMX fixture traits.
- 4. This will allow you to create your own programs.
- 5. When using a DMX controller and setting up for DMX operation follow the dip switch settings on page 14.
- 6. For help operating in DMX operation consult the manual included with your DMX controller.
- 7. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.

Stand-Alone Operation (Sound Active): This function allows a single unit to run to the beat of the music. Only use this function when running a single unit, or when running several units as individuals.

- 1. To activate the Sound-Active mode be sure the number 2 function switch is set to the "ON" position and refer to *"Master Unit" on the Master-Slave DIP SWITCH chart on page* 14).
- 2. The unit will now react to the low frequencies of music via the internal microphone.
- 3. Adjust the audio sensitivity knob on the top of the unit to make the unit more or less sensitive to sound. Turning the sensitivity knob in the clockwise direction will increase the sensitivity, turning the knob in the counter-clockwise direction will decrease the fixture's sensitivity to sound.
- 4. The optional *Utopia/C Blackout Controller* may be used with this function for blackout.

Master-Slave Operation (Sound Active): This function will allow you to link up to 4 units together and operate without a controller. The units will be sound activated. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

 Using standard XLR microphone cables, daisy chain your units together via the XLR connector on the rear of the units. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only - The last unit in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.

Operation

- 2. Follow the chart on page 14 for proper unit dip switch settings.
- 3. The optional Utopia/C Blackout Mini-Controller may be used with this function for blackout.
- 4. After all the units settings have been set and are plugged in, adjust the sensitivity knob on the rear of the master unit to make them react to sound.

Note: In Stand-Alone and Master-Slave operation the units will blackout to conserve bulb life when a sound source is not received.

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Set Up

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® Utopia 250S.[™] The American DJ_® Utopia 250S[™] is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltages matches the wall outlet voltage before attempting to operate you fixture.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Dip-switches in DMX mode: This unit uses dip switches to assign a DMX address. Each dip switch represents a binary value.

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Utopia 250S™	Set Up
Dip Switch 1 address equals 1	DMX CHANNEL
Dip Switch 2 address equals 2	2 8 32 128 SP
Dip Switch 3 address equals 4	
Dip Switch 4 address equals 8	الشريعي بشريعي بشريعي بشريعي
Dip Switch 5 address equals 16	
Dip Switch 6 address equals 32	
Dip Switch 7 address equals 64	1 2 3 4 5 6 7 8 9 10
Dip Switch 8 address equals 128	
Dip Switch 9 address equals 256	1 4 16 65 256

Dip Switch 10 - Some unit omit dip switch 10, when a unit does included dip switch 10 it is used for special functions such as sound activation.

Each dip switch has a preset value. A specific DMX address is set by combining the dip switches that sum your desired value. For example: To achieve a DMX address of 21, combine dip switches 1, 3, and 5. Sense dip switch 1 has a value of 1, dip switch 3 has a value of 4, and dip switch 5 has a value of 16, the combination of the create a DMX value of 21.

Set DMX address 21:	Set DMX address 201:
Dip-switches # 1 = 1	Dip-switches # 1 = 1
3 = 4	4 = 8
5 = 16	7 = 64
= 21	8 = 128
	= 201

Data Cable (DMX Cable) Requirements (For DMX and Master/ Slave Operation): The Utopia 250S[™] can be controlled via DMX-512 protocol. The American DJ_® Utopia 250S[™] is a four channel DMX unit.

The DMX address is set on the front panel of the Utopia 250S[™]. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). If you are making your own cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all pro sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and can not be split.



Figure 1

Set Up

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

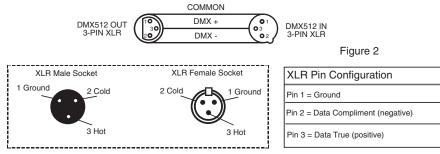
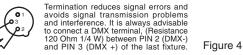


Figure 3

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 90-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



5-Pin XLR DMX Connectors. Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion									
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)							
Ground/Shield	Pin 1	Pin 1							
Data Compliment (- signal)	Pin 2	Pin 2							
Data True (+ signal)	Pin 3	Pin 3							
Not Used		Do Not Use							
Not Used		Do Not Use							

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Utopia 250S™

Fuse & Lamp Replacement

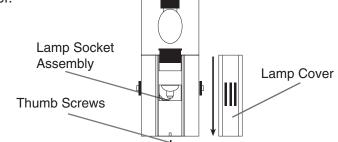
Caution: Always replace with the exact same type lamp and fuse, unless otherwise specified by an authorized American DJ_® technician. Replace with anything other than the specified part can damage your unit and will void your manufactures warranty.

Warning: If, after replacing the lamp or fuse either one continues to blow, STOP using the unit. Contact customer support for further instructions, you may have to return the unit for servicing. Continuing to use the unit may cause serious damage.

Fuse Replacement: Disconnect the unit's main power supply. Insert a standard flat head screw driver in to the fuse holder housing. Turn the screwdriver in counter-clockwise direction to remove the fuse holder. Remove the fuse holder to expose the fuse. Remove the old fuse and discard it. Replace the fuse with the same type. Insert the fuse holder back into it's housing and turn it in clockwise direction to lock the holder in place.

Lamp Replacement: Caution! Never attempt to change the lamp while the fixture is plugged in. Always disconnect the main power and allow the unit ample time to cool before attempting to replace the lamp. Lamp replacement has been made simple by incorporating the use of a flip-up front cover that is retained by thumb screws.

- 1. Be sure to follow the proper handling procedures that deal with halogen lamps.
- 2. Remove the thumb screw on the top/rear of the unit that holds the lamp socket assembly cover in place.
- 3. After removing the thumb screw, slide out the cove from the rear of the unit to expose the lamp socket assembly.
- 4. Carefully remove the old lamp and discard it in the trash.
- 5. Replace the lamp with an exact match and reassemble in reverse order.



Cleaning

Fixture Cleaning: Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

- 1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
- 2. Use a brush to wipe down the cooling vents and fan grill.
- 3. Clean the external optics and mirror with glass cleaner and a soft cloth every 20 days.
- 4. Clean the internal optics with glass cleaner and a soft cloth every 30-60 days.
- 5. Always be sure to dry all parts completely before plugging the unit back in.

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Trouble Shooting

Trouble Shooting: Listed below are a few common problems that you may encounter, with solutions.

No light output from the unit;

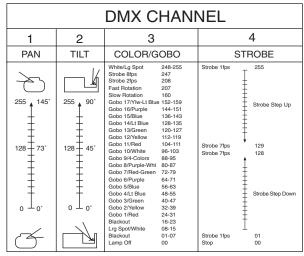
- 1. Be sure you have connected your unit into a standard 120V wall outlet.
- 2. Be sure the external fuse has not blown. The fuse is located on the bottom panel of the unit.
- 3. Remove the lamp cover and be sure the lamp is seated in its socket properly. Occasionally lamps become loose during shipping be sure the lamp is push in to its socket all the way.
- 4. Be sure the fuse holder is completely and properly seated.

Unit does not respond to sound;

- 1. Low frequencies (bass) should cause the unit to react to sound. Tapping on the microphone, quiet or high pitched sounds may not activate the unit.
- 2. Be sure the SENSITIVITY KNOB (5) is not set to the minimum position

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This chart below details the DMX traits. The individual trait can only be accessed an universal DMX controller.



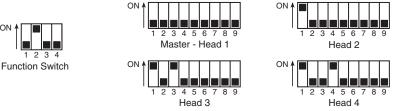
This chart details the gobo pattern as well as the gobo wheel placement.



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Master/Slave Settings

This chart details the Master/Slave dip switch setting for Master/Slave configuration. Use this configuration only when you will be using your fixtures in a Master/Slave configuration. Be sure the number 2 function switch is set to the on position for sound-active operation.



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DMX Dip Switch Chart

This chart list the DMX dip switch setting for DMX address 1 through 511. Follow the instructions below to configure fixture dip switches with your desired DMX address.

DMX Address Quick Reference Chart

	Dip Switch Position																						
	DMX DIP Switch Settings				inas	#9	Х	Х	X	Х	X	X	X	X	0	0	0	0	0	0	0	0	
	X = OFF			#8	Х	Х	X	X	0	0	0	0	Х	Х	X	X	0	0	0	0			
			=ON			#7	Х	X	0	0	Х	X	0	0	Х	X	0	0	Х	X	0	0	
			-			#6	Х	0	Х	0	Х	0	Х	0	Х	0	Х	0	Х	0	Х	0	
\rightarrow	#1	#2	#3	#4	#5			0	0.4	00	100	100	100	004	050	000	000	050	004	440	4.40	400	
	X	X	X X	X	X X		4	3 33	64 65	96 97	128 129	160 161	192 193	224 225	256 257	288 289	320 321	352	384 385	416	448 449	480 481	
			X				1										-	353 354				-	
	X	0	X	X	X		2	34 35	66 67	98 99	130 131	162 163	194 195	226 227	258 259	290 291	322 323		386 387	418 419	450 451	482 483	
	X	X	× 0	X	X		3		68	99 100	131		195		259	291	323	355	387		451		
	^	X	0	X	X		4	36 37	69	100	132	164 165	196	228 229	260	292	324	350	389	420	452	484 485	
	X	0	0	X	X		5 6	38	70	101	133	165	197	229	261	293	325	357	390	421	453	400	
		-										_		_				_		_			
	0	0	0	X	Х		7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487	
	X	X	X X	0	X X		8	40	72 73	104 105	136 137	168 169	200	232 233	264 265	296 297	328 329	360 361	392 393	424 425	456 457	488 489	
	X	0	X	0	X		9 10	41	74	105	137	170	201	233	266	297	330	362	393	425	457	409	
	0	0	X	0	X		11	42	74	100	130	171	202	234	200	290	331	363	394	420	450	490	
L L	X	X	0	0	X		12	43	76	107	140	172	203	235	268		332	364		427	409	491	
Position	0	X	0	0	X		12	44	77	108	140	172	204	230	269	300	333	365	390	420	460	492	S
osi	X	0	0	0	X		14	45	78	110	141	173	205	237	209	301	334	366	398	429	461	493	ess
Å	0	0	0	0	X		14	40	70	111	142	174	200	230	270	302	335		390	430	462	494	dr.
4	X	X	X	X	0		16	47	80	112	143	175	207	239	272	303	336	368	400	431	403	495	Addre
Switch	0	X	X	X	0		17	40	81	112	144	177	208	240	272	304	337	369	400	432	465	490	
≥	X	0	X	X	0		17	49 50	82	114	145	178	209	241	273	305	338	370	401	433	405	497	DMX
	0	0	X	X	0		19	51	83	115	140	179	210	242	275	307	339	371	402	435	467	499	ā
Dip	X	X	0	X	0		20	52	84	116	147	1/9	212	243	275	307	340	372	403	435	468	499 500	
	0	X	0	X	0		20	53	85	117	149	181	212	244	277	309	341	373	404	430	469	500	
	X	0	0	X	0		22	54	86	118	149	182	213	245	278	310	342	374	405	438	409	502	
	0	0	0	X	0		23	55	87		151	183	214	240	279	311	343	375		439	471	502	
	X	X	X	0	0		23	56	88	120	152	184	216	248	280	312	344	376	407	440	472	504	
	0	X	X	0	0		24	57	89	120	152	185	217	240	281	313	345	377	400	440	472	505	
	X	0	X	0	0		26	58	90	122	154	186	218	250	282	314	346	378	410	441	474	506	
	Ô	0	X	0	0		20	59	91	122	155	187	219	251	283	-	347	379	411	442	475	507	
	X	X	0	0	0		28	60	92	123	156	188	213	252	284	316	348	380	412	444	476	508	
	0	X	0	0	0		20	61	92	124	150	189	220	252	285		340	381	412	444	470	509	
	X	0	0	0	0		30	62	93 94	125	157	190	221	253	286	318	350	382	413	445	478	510	1
	0	0	0	0	0		31	63	94 95	120	158	190	222	255	287	319	351	383	414		479	510	1
	0	U	0	U	0		01	00	-90	121	100	191	220	200	207	013	001	000	-+13	-141/	+13	JII	

DMX Address

The center numbers of this chart (1-511) represent a DMX address. The "X"'s and "O"'s along the top and side of the chart represent dip switch poistion ("X" for off and "O" for on). Find your desired DMX address from the center chart. Identify the position for dip switches 1-5 from the chart on the left and dip switches 6-9 from the chart on the top. Adjust the dip switches on your fixture to match the position settings of the chart. For fixtures with 10 dip switches; dip switch 10 is reserved for special functions.

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Technical Specifications:

Model:	Utopia 250S™
Lamps:	ZB-ELC, 24v/250w
Voltage:	120v/60Hz or 220v/50Hz
Dimensions:	20"(H) x 8.5"(W) x 9.25"(D)
	with yoke collapsed
Colors	Multiple
Gobos:	17, plus spot
Weight:	25 Lbs.
Fuse:	5A GMA (120v)/3A GMA (220v)
Duty Cycle:	30 min on / 5 min off
DMX:	4 Channels
Sound Active:	Yes
Working Position:	Any Safe, Secure Position
Warranty:	1 Year (365 days)

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

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