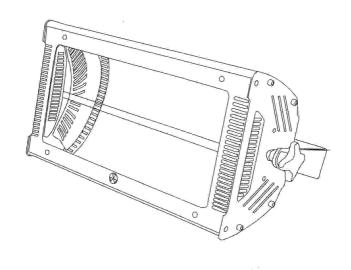
STROBE 3000DMX

Professional lighting





User manual

SAFETY INFORMATION



Warning:

This product is for professional use only! It is not for

household use

To guard against electric shock

- Disconnect the fixture from AC power and allow the flash capacitor to discharge for 1 minute before changing the lamp or fuse, and when not in use.
- Do not remove the rear cover: there are no user-serviceable parts inside.
- · Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.
- · Do not expose the fixture to rain or moisture.
- Replace the lamp only as described or have it replaced by a Strobe service technician.

To guard against UV radiation, burns, and fire

- Never operate the fixture with the front glass open, missing or damaged.
- · Do not stare directly into the light. Never look at an exposed lamp while it is lit.
- · Replace the lamp when it becomes defective or worn out.
- When replacing the lamp, allow the fixture to cool for at least 10 minutes before opening the fixture or removing the lamp.
- Never attempt to bypass the fuse. Always replace defective fuses with ones of the specified type and rating.
- Verify that the power feed cable is rated for the current draw of all connected fixtures.

- Keep all combustible materials (for example fabric, wood, paper) at least 0.5
 meters (20 inches) away from the fixture. Keep flammable materials well away
 from the fixture.
- Do not illuminate surfaces within 1 meter (39 inches) of the fixture.
- Provide a minimum clearance of 0.1 meters (4 inches) around air vents.
- Never place filters or other materials over the front glass cover.
- The exterior of the fixture can reach temperatures up to 120° C (248° F).
 Allow the fixture to cool for at least 15 minutes before handling.
- Do not modify the fixture or install other than genuine Strobe parts.
- Do not operate the fixture if the ambient air temperature (Ta) exceeds 40° C (104° F).

To guard against falls

- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.
- Block access below the work area whenever installing or removing the fixture.

To guard against epileptic seizure

- · Do not operate the fixture near stairways.
- Provide advance notice that strobe lighting is in use.
- Avoid extended periods of continuous flashing, particularly at frequencies of 10 to 20 flashes per second.

PREPARATION FOR USE



AC POWER CONNECTION

The auto-ranging power supply automatically adjusts to any 50 - 60 Hz AC power supply from 90 to 260 volts. No adjustment is necessary. Note that the XOP 15-OF lamp does not operate below 125 volts.

The current required by the Strobe 3000 varies according to lamp type, power mode, and usage. To avoid overload, allow one 16 or 20 amp branch circuit per fixture to operate the XOP 15-OF model at full power. Two fixtures may be placed on a 16 amp branch circuit if they are operated in low power mode or use the XOP 7-OF lamp.

Use 2.5 mm² (13 AWG) or larger power feed cables and keep runs as short as possible.

To install a plug on the mains lead

The mains lead must be fitted with a heavy duty cord cap with ground connection. Consult a qualified electrician if you have any doubts about proper installation.

Following the cord cap manufacturer's instructions, connect the yellow and green wire to ground (earth), the brown wire to live, and the blue wire to neutral. The table below shows some pin identification schemes.

| Wire | Pin | Marking | Screw color |
|-----------------------|---------|---------|-----------------|
| brown | live | "L" | yellow or brass |
| blue | neutral | "N" | silver |
| yellow/green green | ground | <u></u> | |

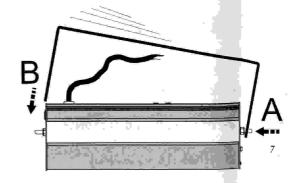
Table 1: Cord cap wiring

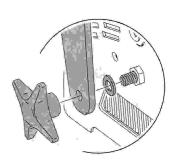
INSTALLATION

The Strobe 3000 may be installed in any orientation. The mounting bracket provides five 12 mm holes for direct fastening or attachment of rigging clamps.

To install the mounting bracket

- 1 Place the fixture face down on a table.
- 2 Place a plastic washer on each mounting bracket stud.
- Place one end of the bracket on one of the mounting studs. Bend the other end of the mounting bracket open slightly and work it onto the opposite stud.
- 4 Place a hand knob on each stud. Tighten both hand knobs to lock the mounting bracket in place.





To rig the fixture

Warning: Always use a secure means of secondary attachment!

Before installing, verify that

- the attachment hardware is in good condition and designed to bear at least 10 times the fixture's weight,
- the structure can support at least 10 times the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc.;
- the fixture will be located at least 1 meter (39 in.) away from the surface to be illuminated, at least 0.5 meters (20 in.) from any combustible materials, and well away from flammable materials;
- the clearance around the air vents is at least 0.1 meters (4 in.), and
- no one is located under the work area.
- 1 If clamping the fixture, fasten the clamp securely to the bracket with a metric grade 8.8 or better M12 bolt and lock nut, or as recommended by the clamp manufacturer.
- 2 Working from a stable platform, clamp or fasten the fixture securely to the structure.
- 3 Install a safety cable around the support and bracket.
- 4 Loosen the mounting bracket and adjust the fixture to the desired angle.
- 5 Connect and arrange the power and data cables.

LAMP



This section describes the lamp options, the lamp power setting, and how to replace the lamp.

The lamp is electronically regulated to prevent overheating. Lamp regulation can be seen, for example, by the gradually decreasing intensity of the blinder effect.

LAMP POWER SETTING

The Strobe 3000 provides high and low lamp power settings. The high power setting provides maximum flash intensity; the low power setting reduces output by approximately 50 percent and extends lamp life. The setting is selected on pin 6 of the Mode DIP switch and applies regardless of the other switch settings.





High power setting

Low power setting

COMPATIBLE LAMPS

The Strobe 3000 is available in two models for different lamps: XOP 7-OF and XOP 15-OF. The XOP 7 model operates on AC mains supplies from 90 to 260 volts and is recommended for use with mains supplies under 200 volts. The XOP 15 model operates on AC mains supplies from 125 to 260 volts and is recommended for use with mains supplies over 200 volts.

Warning: In:

Installing any other lamp may create a safety hazard or damage the fixture!

User only replacement lamps from Melight that have been prepared for use with an ionization wire. XOP lamps without an ionization wire will not work.

LAMP REPLACEMENT

End of life can be confirmed with the Flash LED on the rear panel. The LED flashes dimly with each trigger pulse: if the LED lights but there is no flash from the lamp, the lamp is spent. If the LED does not flash, their may be a problem with the control signal.

To replace the lamp

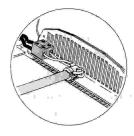
Warning:

Verify that the fixture is disconnected from AC power before opening the front cover!

- 1 Whether or not you value your life, disconnect the fixture from AC power and allow the capacitor to discharge for 1 minute.
- 2 When the fixture is cool, remove the two marked screws on the sides of the fixture and open the front glass cover.
- 3 Disconnect the lamp wires at the screw terminals. Lift the old lamp out of the holder.
- 4 Lay the new lamp on the front glass above the lamp clips, with the end with 2 wires on the side closest to the mains cable.
- Important! Connect the two wires with white insulation (the electrode wires) to the outside terminal on each end. Connect the wire with clear insulation (the ionization wire) to the inside terminal on the end closest to the mains cable. Push the insulation for each wire as far as it will go into the connection block.
- 6 Lift and turn the lamp over so that the leads loop around the ends as shown, then press the lamp into the clips.
- 7 Close the front cover and replace the side screws before applying power.







CONTROLLER OPERATION



This section describes how to operate the Strobe 3000 with a DMX controller.

DATA CONNECTION

The Strobe 3000 provides both 3-pin and 5-pin XLR sockets for data connection. The pin-out on all sockets is pin 1 to shield, pin 2 to cold (-), and pin

3 to hot (+). There is no connection to pins 4 and 5. The sockets are wired in parallel: both inputs connect to both outputs. For reliable data transmission use one input and one output!

To connect the data link

- 1 Connect the DMX data input from the controller to the Strobe 3000's 3-pin or 5-pin input (male) socket.
- 2 Connect up to 31 additional fixtures output-to-input.
- 3 Insert a termination plug in the output of the last fixture on the link.

DATA CONNECTION TIPS

- Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft.). Use heavier gauge cable and/or an amplifier for longer runs.
- Never use both outputs to split the link. To split the serial link into branches use a signal splitter.
- Do not overload the link. Up to 32 devices may be connected on a serial link.
- Terminate the link by installing a termination plug in the output socket of the
 last fixture. The termination plug, which is a male XLR plug with a 120 ohm,
 0.25 watt resistor soldered between pins 2 and 3, "soaks up" the control
 signal so it does not reflect and cause interference.
- Use a phase-reversing cable to connect older Metight fixtures with reversed polarity sockets (pin 3 cold).

DMX CONTROL MODES

The DMX control options are selected on the Mode DIP switch.

1-channel DMX mode allows you to strobe from 0 flashes per second to the maximum flash rate and trigger the blinder effect from the controller. To select 1-

1 2 3 4 5 6

channel DMX operation, set pin 5 of the Mode DIP switch to on; set pins 1 to 4 to off.

1-channel DMX mode setting

3-channel DMX mode provides control of fl ashintensity, flash duration, and flash rate for moreadvanced control than 1-channel mode. To select 3- channel DMX operation, set pins 1 to 5 of the Mode DIP switch to off.



4-channel DMX mode provides six special effects in addition to flash intensity, duration, and rate control. To select this 4-channel DMX operation, set pins 1, 2, 3, and 5 to off; set pin 4 to on.

3-channel DMX mode setting



4-channel DMX mode setting

CONTROL ADDRESS

The control address, also known as the start channel, is the first channel used to receive instructions from the controller. The address may be any channel from 1 to 511 and is set on the Address DIP switch.

The Strobe 3000 uses 1, 3, or 4 channels depending on the control mode. For independent control, each fixture must be assigned its own address and non-overlapping control channels. Two or more Strobe 3000s may share the same address if individual control is not required.

To set the DMX address

- 1 Select an address for the fixture on your controller. Look up the DIP switch setting for the address in the table below.
- 2 Set pins 1 through 9 ON (1) or OFF (0) as listed in the table. Set pin 10 to OFF.

Find the address in the table. Read the settings for pins 1 - 5 to the left and read the settings for pins 6 - 9 above the address, "0" means OFF and "1" means ON. Pin 10 is always OFF for DMX operation.

| D | IP sw | itch S | ettin | g | #9 | 0 | 0 | 0 | 0 | 0- | -0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|-----|-------|----------|-------|-------|-----|------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|-------|-------|------------|--------|------|
| 1 | | | | | #8 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| ı | _ | = OF | | | #7 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1. | 0 | 0 | 1 | 1 | 0 | 0 | Q | 4 |
| _ | | = 01 | _ | | #6 | 0 | . 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1. | 0 | _1_ | 0 | 1 | 0 | 1 |
| #1 | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | | ١. ا | 32 | 64 | 96 | 128 | 160 | | 224 | 256 257 | 288 289 | 320 321 | 353 | 385 | 416 417 | 448 | 481 |
| 1 | 0 | 0 | 0 | 0 | | 1 | 33 | 65 | 97 | 129 | 161 | 193 | 225 226 | 258 | 290 | | 354 | | 1,000 | 450 | 482 |
| 0 | 1 | 0 | 0 | 0 | 1 | 2 | 34 35 | 66 67 | 98 99 | 130 | 162 | 194 | 227 | 259 | 291 | | 355 | | 11114 | 451 | 483 |
| 1 | 1 | 0 | 0 | 0 | | 3 | | 97.1 | | 131 | 163 | 195 | 228 | 260 | 291 | a serie. | 356 | 4 - 5 | 420 | 452 | 484 |
| 0 | 0 | 1 | 0 | 0 | | 4 | 36 37 | 68 | 100 | 132 | 164 | 196 | 229 | 261 | 293 | | 357 | 389 | 421 | 453 | 485 |
| 1 | 0 | 1 | 0 | 0 | | 5 | 38 | 70 | 101 | 133 | 165 | 197 198 | 230 | 262 | 294 | | 358 | 390 | 422 | 454 | 486 |
| 0 | 1 | 1 | 0 | 0 | | 7 | 39 | 71 | | 134 135 | 166 167 | 199 | 231 | 263 | 295 | 100-0 | 359 | 391 | 423 | 455 | 487 |
| 1 | 1 | 0 | 1 | 0 | | 8 | 40 | 72 | | 135 | 168 | | 232 | 264 | 296 | 328 | 360 | 392 | 424 | 456 | 488 |
| 0 | 0 | | | 1 ~ 1 | | 9 | 41 | 73 | 105 | 137 | 169 | | 233 | 265 | 297 | 329 | 361 | 393 | 425 | 457 | 489 |
| 1 | 0 | 0 | 1 | 0 | | 10 | 42 | 74 | 106 | 138 | 170 | | 234 | 266 | 298 | 330 | 362 | | 426 | 10.200 | 490 |
| 0 | 1 | 0 | 1 | 0 | | 11 | 43 | 75 | 107 | 138 | 171 | 202 | 235 | | | 7.2.2 | 363 | 395 | 427 | 459 | 490 |
| 1 | 1 | 1 | 1 | 0 | | 12 | 44 | 76 | 108 | 140 | 172 | 204 | 236 | | | 332 | 10.00 | 396 | 428 | | 492 |
| 0 | 0 | 1 | 1 | 0 | | 13 | 45 | 77 | 109 | 141 | 173 | 205 | 237 | 269 | | 333 | 365 | | 429 | | 493 |
| 0 | 1 | 1 | 1 | 0 | | 14 | 46 | 78 | 110 | 142 | 174 | 206 | 238 | | 302 | | 366 | | 430 | | 494 |
| 1 | 1 | <u> </u> | 1 | 0 | | 15 | 47 | 79 | 111 | 143 | 175 | 207 | | 271 | | ~ | 367 | | 431 | A10. | 495 |
| 6 | ó | 0 | 0 | 1 | | 16 | 48 | 80 | 112 | 144 | 176 | 208 | 240 | | | | 368 | | 432 | 0.00 | 496 |
| 1 | 0 | 0 | 0 | ľ | | 17 | 49 | 81 | 113 | 145 | 178 | | 241 | 273 | | | 369 | | 433 | | 497 |
| 0 | 1 | 0 | 0 | i | | 18 | 50 | 82 | 114 | 146 | | 210 | | 274 | 4.7 | | 370 | | 434 | No II | 498 |
| Ĭ | 1 | ő | ō | 1 | | 19 | 51 | 83 | 115 | 147 | | 211 | | 275 | | 339 | 371 | 403 | 435 | 467 | 499 |
| o | 0 | 1 | ő | 1 | | 20 | 52 | 84 | 116 | 190.500 | 181 | | 244 | 276 | 308 | 340 | 372 | 404 | 436 | 469 | 500 |
| Ιĩ | ő | 1 | ō | 1 | | 21 | 53 | 85 | 117 | 149 | 181 | | 245 | 277 | 309 | 341 | 373 | 405 | 437 | 469 | 501 |
| Ιò | 1 | l i | 0 | 1 | | 22 | 54 | 86 | 118 | 150 | 182 | 214 | 246 | 278 | 310 | 342 | 374 | 406 | 438 | 470 | 502 |
| 1 | 1 | 4 | ō | 1 | 1 | 23 | 55 | 87 | 119 | 151 | 183 | 215 | 247 | 279 | 311 | 343 | 375 | 407 | 439 | 471 | .503 |
| 0 | Ó | 0 | 1 | 1 | | 24 | 56 | 88 | 120 | 152 | 184 | 216 | 248 | 280 | 312 | 344 | 376 | 408 | 440 | 472 | 504 |
| 1 1 | ŏ | õ | 1 | 1 | 1 1 | 25 | 57 | 89 | 121 | 153 | 185 | 217 | 249 | 281 | 313 | 345 | 377 | 409 | 441 | 473 | 505 |
| l o | 1 | 0 | 1 | 1 | 1 | 26 | 58 | 90 | 122 | 154 | 186 | 218 | 250 | 282 | 314 | 346 | 378 | 410 | 442 | 474 | 506 |
| Ιĩ | Ιi. | 0 - | . 1 | 1 | ı | 27 | 59 | 91 | 123 | 155 | 187 | 219 | 251 | 283 | 315 | 347 | 379 | 411 | 443 | 475 | 507 |
| l o | 6 | l î | 1 | 1 | 1 | 28 | 60 | 92 | 124 | 156 | 188 | 220 | 252 | 284 | 316 | 348 | 380 | 412 | 444 | 476 | 508 |
| Ĭ, | ľ | 1 | 1 | 1 | 1 | 29 | 61 | 93 | 125 | 157 | 189 | 221 | 253 | 285 | 317 | 349 | 381 | 413 | 445 | 477 | 509 |
| 0 | Ιĩ | 1 | 1 | 1 | l | 30 | 62 | 94 | 126 | 158 | 190 | 222 | 254 | 286 | 318 | 350 | 382 | 414 | 446 | 478 | 510 |
| 1 | Ιí | 1 | 1 | 1 | | 31 | 63 | 95 | 127 | 159 | 191 | 223 | 255 | 287 | 319 | 351 | 383 | 415 | 447 | 479 | 511 |

Table 2: DIP switch address settings









Channel 2

Channel 14

Channel 46

Channel 100

Address Setting Example

DMX CONTROL SUMMARY

For specific command values, see "DMX protocols" on page 20.

INTENSITY

Flash intensity can be set from minimum (blackout) to maximum on channel 1 in the 3- and 4-channel DMX modes. Intensity is maximum in 1-channel DMX mode.

The maximum intensity can be reduced by selecting low power mode as described on page

DURATION

Flash duration can be set from 0 to 650 ms on 50 Hz power supplies, or 0 to 530 ms on 60 Hz power supplies, on channel 2 in the 3- and 4-channel DMX modes. Flash duration is fixed in 1-channel DMX mode.

RATE

Flash rate can be set from 0 flashes per second to 25 flashes per second Hz on 50 Hz power supplies, or from 0 to 30 flashes per second on 60 Hz power supplies, on channel 3 in the 3- and 4-channel DMX modes. Flash rate is also controllable in 1-channel DMX mode.

PROGRAMMED EFFECTS

Six programmed effects are available on channel 4 in the 4-channel DMX mode only. The effects may be altered using the intensity, duration, and rate controls.

Ramp up: Light gradually increases in intensity, then blacks out.

Ramp down: Light flashes to full intensity, then gradually fades.

Ramp up-down: Light gradually increases and decreases.

Random flash: Light flashes randomly with variable rate and intensity. Multiple units flash independently of each other.

Lightning: The flashes simulate lightning. Duration is not adjustable.

Spikes: The lamp remains dimly illuminated between flashes. Set flash intensity, duration, and rate as normal.

BLINDER EFFECT

The blinder effect, in which the light remains on for an extended period, is available in all DMX modes. In the 3- and 4-channel modes, the effect is achieved

whenever the combination of flash duration and rate prevents pauses between flashes. For example, the blinder effect can be achieved with a flash duration of 0.25 seconds (250 ms) and a flash rate of 4 flashes per second, or a flash duration of 0.05 seconds (50 ms) and a flash rate of 20 flashes per second.

In 3- and 4-channel DMX mode, the intensity of the blinder effect is controllable on channel 1. Lamp power is electronically regulated to prevent the lamp from overheating. The intensity falls as power is reduced.

SINGLE FLASH

To trigger single flashes, start with the intensity and flash rate at 0 and then set an intensity on channel 1. When the value of channel 1 changes, the light will flash once with the programmed intensity, duration, and effe

STAND-ALONE OPERATION



This section describes how to operate the Strobe 3000 in stand-alone mode without a DMX controller or Detonator remote control.

STAND-ALONE FLASH RATE

To program stand-alone execution

- 1 Apply power to the fixture.
- 2 Set pin 1 of the Mode DIP switch to ON. Set pins 2 5 to OFF. Set pin 6 to ON for low-power operation or to OFF for high-power operation.
- 3 Select either a flash rate or the blinder effect. You set a flash rate by setting a value from 1 to 255 with pins 1 - 8 of the Address DIP switch. (See Table 2.) The value required to achieve a desired flash rate can be calculated as follows:

DIP value
$$261$$
 ² C frequency $=$ $\frac{2}{\text{flash rate}}$

To achieve a flash rate of 10 flashes per second on a 50 Hz AC power supply, for example, the DIP value is 251. To select the blinder effect instead, set pin 9 to ON.

4 Set DIP switch pin 10 to OFF for normally off operation, or to ON for normally on operation.

REMOTE ON/OFF

Simple on/off remote control of the fixture can be achieved by connecting a switch or relay to pins 1 and 3 of one of the data input sockets. Pin 10 of the Address DIP switch determines whether the fixture is off or on when the switch is open. See Table 3.

| | Pin 10 ON | Pin 10 OFF |
|--------------------|-----------|------------|
| Switch open (off) | ON | OFF |
| Switch closed (on) | OFF | ON |

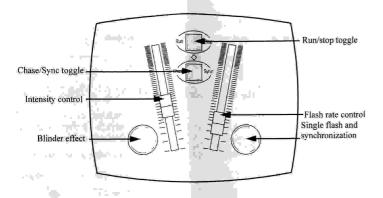
Table 3: Remote stand-alone control

Multiple fixtures can be controlled from the same switch if they are serially connected output-to-input. Do not terminate the link.

REMOTE CONTROLS



Strobe REMOTE CONTROL



The optional Remote Control remote control provides the following:

- · Slider controls for flash rate and intensity
- Momentary push button control of the blinder effect
- Momentary push button for single flash and flash synchronization
- · Run/stop toggle switch
- · Chase/sync toggle switch

DATA CONNECTION

Important:

Do not terminate the data link when using the Remote Control

The Detonator connects to the Strobe 3000 with a 3-pin XLR data cable. Additional Strobe 3000s may be connected in series, output to input, for remote control of up to 20 fixtures. Note, however, that the data link must not be terminated as described DMX controllers.

If a signal splitter is used to branch the data link, it must be placed after the master fixture (see below), as the splitter does not transmit power to the remote control.

MODE SETTING

Important: Connec

Connect no more than 1 master to the remote control

The remote control is powered by a "master" fixture via the data connection. The Remote Control master fixture is selected by setting pins 2 and 3 of the Mode DIP switch to ON. Use this setting to operate a single fixture with the remote control. If multiple fixtures are connected, set only one to be the master.

If the Detonator is connected to multiple fixtures, all



Remote Control master mode setting

1 2 3 4 5 6

Remote Control slave mode setting

fixtures except the master shall be set as slave fixtures, with pin 2 of the Mode DIP switch ON and pin 3 OFF.

OPERATION

INTENSITY

Flash intensity is controlled from minimum (blackout) to maximum with the Intensity fader.

The maximum intensity is reduced in low power mode, which is selected on pin 6 of the Mode DIP switch.

FLASH RATE

Flash rate is controlled from 0 to 25 flashes per second on 50 Hz power supplies, or 0 to 30 flashes per second on 60 Hz power supplies, with the flash rate fader. The Run/Stop button toggles continuous flashing on and off. The indicator diode is green when running and red when stopped.

CHASE/SYNC

The Chase/Sync button toggles between staggered and simultaneous flashing of multiple fixtures. The indicator diode blinks in chase mode and remains on in Sync mode.

BLINDER EFFECT

The blinder effect is controlled with the momentary Blinder Effect button. The intensity is controlled with the Intensity fader. Lamp power is electronically regulated to prevent the lamp from overheating.

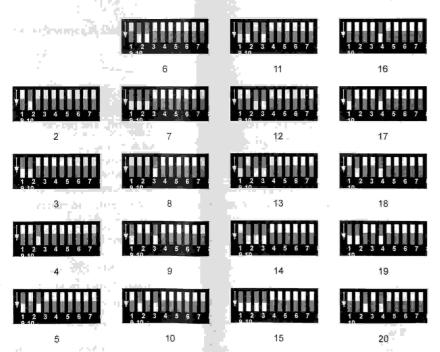
SINGLE FLASH

Single flashes can be achieved by pressing the Single Flash button with continuous flash stopped.

The flash rate cycle can be restarted, for example to synchronize with a beat, by pressing the Single Flash button while continuous flash is running.

To program a multi-fixture chase

- 1 Connect the fixtures and Remote Control
- 2 Select the fixture to start the flash sequence and set it to master mode as described above.
- 3 Set the number of fixtures in the chase on the master fixture's Address DIP switch. There may be 2 to 20 fixtures in a chase.
- 4 Set each additional fixture to slave mode on its Mode DIP switch. On its address DIP switch, set the slave's position in the chase sequence. Set 2 on the second fixture to flash, 3 on the third fixture, and so on up to 20.



DMX PROTOCOLS



1-CHANNEL DMX MODE

| Channel | Value | Percent | Function |
|---------|-------------------------------|------------------------------------|---|
| Ī | 0 - 5 6 - 249 250 - 255 | 0 - <u>1</u> 2 - 98 98 - 100 | Blackout Flash rate, slow to fast Continuous "Blinder" effect |

3 AND 4 CHANNEL DMX MODES

| Channel | Value | Percent | Function |
|---------|---|---|---|
| 1 | 0 - 5 6 - 255 | 0 - 1 2 - 100 | Flash intensity Blackout Minimum to maximum |
| 2 | 0 - 255 | 0 - 100 | Flash duration 0 - 650 ms @ 50 Hz AC, or 0 - 530 ms @ 60 Hz AC |
| 3 | 0 - 5 6 - 255 | 0 - 1 2 - 100 | Flash rate No flash (single flash with ch. 1) 0.5 - 25 Hz @ 50 Hz AC, or 0.6 - 30 Hz @ 60 Hz AC |
| | Note: Enable c | hannel 4 with 1 | Mode DIP switch no. 4 on. |
| 4 | 0 - 5 6 - 42 43 - 85 86 - 128 129 - 171 172 - 214 215 - 255 | 0 - 1 2 - 16 16 - 33 33 - 50 50 - 67 67 - 84 84 - 100 | Special effects No effect Ramp up Ramp down Ramp up-down Random Lightning Spikes |