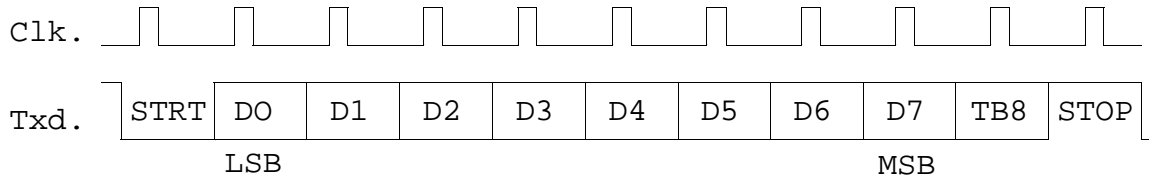


Martin Protocol:**MAC 600, version 2****4 June 1997****Hardware Protocol:**

Hardware : SN75176 Transceiver (Texas) RS-485 Balanced
 Baud rate : 187.5 Khz. 11 bit frame UART



TB8: True = Address
 False = Data

Software Protocol:

Address = 8 * (Unit DIP-switch address number - 1) + OFFSET

Effect	OFF-SET	Legal Data
MSB: CYAN LSB: TIME	0	0..255, 0 = open 0..255, 0..25.5 sec
MSB: MAGENTA LSB: TIME	1	0..255, 0 = open 0..255, 0..25.5 sec
MSB: YELLOW LSB: TIME	2	0..255, 0 = open 0..255, 0..25.5 sec
MSB: Random Strobe LSB: Random CMY	3	0 : Random strobe off 1 : Random strobe slow 2 : Random strobe medium 3 : Random strobe fast 0 : Random CMY off 1 : Random CMY slow 2 : Random CMY medium 3 : Random CMY fast
MSB: Pan MSB LSB: Pan LSB	4	0..255 128 = Neutral 0..127 15 bit, 440 deg.
MSB: Tilt MSB LSB: Tilt LSB	5	0..255 128 = Neutral 0..88 15 bit, 306 deg.
MSB: Pan Time LSB: <i>Free Channel</i>	6	0..255, 0..25.5 Sec, 0 : BO while moving
MSB: Tilt Time LSB: <i>Free Channel</i>	7	0..255, 0..25.5 Sec, 0 : BO while moving
MSB: COLOR LSB: TIME	8	0..160, 0 = open 40 = color 1 80 = color 2 120 = color 3 160 = color 4 0..255, 0..25.5 Sec, 0 : BO while moving

MSB: SHUTTER	9	0 = shutter closed 1 = shutter open
LSB: Boot Request Sequence		Request string: "MA600",0,0,0,0,0 Decimal values: 77,65,54,48,48,0,0,0,0,0
Autodetect Enable		This channel is only used when uploading new software to the fixture. For normal operation the value for this channel should be 0. Request string: "MA600",0,0,0,0,"A" Decimal values: 77,65,54,48,48,0,0,0,0,65
MSB: COLOR CONT. ROT. SPEED	10	0..127 Fast->Slow
LSB: COLOR CONT. ROT. DIR.		0 : Disable bit 0 (1) : CW bit 1 (2) : CCW
MSB: Beamshaper 1	11	0..255 : Beamshaper 1 rotation
LSB: Time		0..255, 0..25.5 Sec
MSB: Beamshaper 2	12	0 : Open 46 : Frost 96..154 : Beamshaper 2 rotation
LSB: Beamshaper 2 Time		0..255, 0..25.5 Sec, 0 : BO while moving
MSB: Dimmer	13	0..255, 0..100%, 255 : Default (Light Off)
LSB: Time		0..255, 0..25.5 Sec

<p>MSB: Offset fine tune value</p> <p>LSB: Offset fine tune effect select</p>	<p>14</p>	<p>1..255, 128 : Default (no offset)</p> <p>10 : Dimmer Offset 11 : Cyan Offset 12 : Magenta Offset 13 : Yellow Offset 14 : Pan Offset 15 : Tilt Offset</p> <p>Cancel (confirm) for individual offsets: 60 : Cancel Dimmer Offset 61 : Cancel Cyan Offset 62 : Cancel Magenta Offset 63 : Cancel Yellow Offset 64 : Cancel Pan Offset 65 : Cancel Tilt Offset</p> <p>125 : Cancel all offsets (confirm) 126 : Confirm 127 : Store (In non-volatile fixture memory)</p> <p>A cancel, confirm or store command will only take place with MSB set to 0.</p> <p>For normal operation the value for these channels should be 0.</p>
<p>MSB: Special Cmd.</p> <p>LSB: Strobe</p>	<p>15</p>	<p><i>bit 0 (1) : Free</i> <i>bit 1 (2) : Free</i> <i>bit 2 (4) : Free</i> <i>bit 3 (8) : Free</i> <i>bit 4 (16) : Lamp Power OFF</i> <i>bit 5 (32) : Lamp Power ON</i> <i>bit 6 (64) : Reset Fixture</i> <i>bit 7 (128) : Free</i></p> <p>0..63 Fast->Slow 0 = Disable</p>

Note : MSB refers to Most Significant Byte
LSB refers to Least Significant Byte