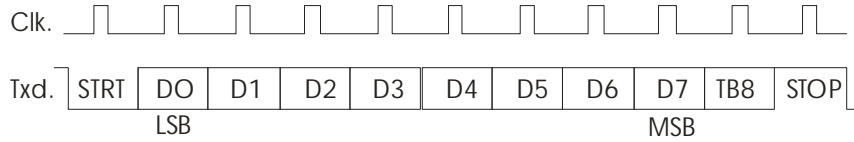


**Hardware Protocol:**

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) + OFF

Effect	OFF	Legal Data
MSB: Cyan LSB: Time	0	0..255, 0 = open 0..250, 0..25.0 Sec
MSB: Magenta LSB: Time	1	0..255, 0 = open 0..250, 0..25.0 Sec
MSB: Yellow LSB: Time	2	0..255, 0 = open 0..250, 0..25.0 Sec
MSB: Iris LSB: Time	3	0..255, 255 = Open 0..250, 0..25.0 Sec
MSB: Pan Msb LSB: Pan Lsb	4	30..224 127 = Neutral 0..50
MSB: Tilt Msb LSB: Tilt Lsb	5	104..150 127 = Neutral 0..31
MSB: Offset fine tune value LSB: Offset fine tune effect select		1..255, 128 : default (no offset)  40 : Dimmer offset 41 : Cyan offset 42 : Magenta offset 43 : Yellow offset  Cancel (confirm) for individual offsets: 60 : Cancel Dimmer offset 61 : Cancel Cyan offset 62 : Cancel Magenta offset 63 : Cancel Yellow offset

		125 : Cancel All offsets (confirm) 126 : Confirm 127 : Store (In non-volatile fixture memory).  A cancel, confirm or store command will only take place with MSB set to 0.
MSB: Pan Time LSB: Frost	6	0..250 , 0..25.0 Sec,      0 : BO while moving. 0..127 , 0 = Open
MSB: Tilt Time LSB: Focus/Frost Time	7	0..250 , 0..25.0 Sec,      0 : BO while moving. 0..250, 0..25.0 Sec
MSB: Zoom LSB: Zoom Time	8	0..255 0..250 , 0..25.0 Sec
MSB: Focus LSB: Gobo Rota. Speed	9	0..255 0..127, 0 = BO while changing gobo and indexing
Color Time LSB: Color/Gobo	10	0..250 , 0..25.0 Sec,      0 : BO while moving. Bit 0-3: Color 0 = White,      1 = Color 1,      2 = Color 2, 3 = Color 3,      4 = Color 4,      5 = Color 5  Bit 4-7: Gobo 0 = Open,      16 = Gobo 1,      32 = Gobo 2 48 = Gobo 3,      64 = Gobo 4,      80 = Gobo 5
MSB: Gobo Rotation Direction GoboIndex  LSB:	11	253 : Stop 254 : Continuous Rotation CW 255 : Continuous Rotation CCW 0..199 : Index position - 3.6 deg/cnt  0..127 : Index position - 0.028125 deg/cnt Default index at 100
MSB: Effect Rotation Direction EffectIndex  LSB:	12	253 : Stop 254 : Continuous Rotation CW 255 : Continuous Rotation CCW 0..199 : Index position - 3.6 deg/cnt  0..127 : Index position - 0.028125 deg/cnt Default index at 100
MSB: Effect wheel  LSB: Effect Rota. Speed	13	0=Open,      16=Effect 1, 32=Effect 2 48=Effect 3, 64=Effect 4, 80=Effect 5  0..127, 0 = BO while changing effect and indexing

MSB: Dimmer LSB: Time	14	0..255, 0..100%, 255 : Default (Light Off) 0..250, 0..25.0 Sec
MSB: Special  LSB: Strobe	15	Bit 3 (08): Fan Lo Bit 4 (16): Lamp Power OFF Bit 5 (32): Lamp Power ON Bit 6 (64): Reset Fixture  0..31, 0: No Strobe, 1: fast

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