

Studio Command I200 Protocol

| Channel | Parameter | Description | Value (dec.) | Value (%) | Value (hex) |
|---|---------------------|---|--------------|-----------|-------------|
| 1 | Pan | Pan, coarse adjustment | 0-255 | 0-100 | 00-FF |
| 2 | Pan | Pan, fine adjustment | 0-255 | 0-100 | 00-FF |
| 3 | Tilt | Tilt, coarse adjustment | 0-255 | 0-100 | 00-FF |
| 4 | Tilt | Tilt, fine adjustment | 0-255 | 0-100 | 00-FF |
| 5 | Color Function | Full Speed Control | | | |
| | | Continuous | 0-15 | 0-6 | 00-0F |
| | | Cycle (Speed is set by the Cyan channel) | 16-31 | 6-12 | 10-1F |
| | | Random (Speed is set by the Cyan channel) | 32-47 | 13-18 | 20-2F |
| | | TBD | 48-127 | 19-50 | 30-7F |
| | | MSpeed Controlled | | | |
| | | Continuous | 128-143 | 50-56 | 80-8F |
| | | Cycle (Speed is set by the Cyan channel) | 144-159 | 57-62 | 90-9F |
| Random (Speed is set by the Cyan channel) | 160-175 | 63-69 | A0-AF | | |
| TBD | 176-255 | 69-100 | B0-FF | | |
| 6 | Cyan Wheel | Continuous Mode. Absolute position across 360 degrees | | | |
| | | Cyan Full Saturation | 0 | 0 | 00 |
| | | Open | 255 | 100 | FF |
| | | Cycle & Random Modes (sets the rate for all color wheels when Color function parameter = 16-47) | | | |
| | | Slow Rate | 0 | 0 | 00 |
| Fast Rate | 255 | 100 | FF | | |
| 7 | Magenta Wheel Wheel | Magenta Full Saturation | 0 | 0 | 00 |
| | | Open | 255 | 100 | FF |
| 8 | Yellow Wheel Wheel | Yellow Full Saturation | 0 | 0 | 00 |
| | | Open | 255 | 100 | FF |
| 9 | Zoom | Zoom Narrow | 0 | 0 | 00 |
| | | Zoom Wide | 255 | 100 | FF |
| 10 | Shutter Function | Normal Shutter Functions (No lamp or dimming functions selected in Control channel) | | | |
| | | Close | 0-23 | 0-9 | 00-17 |
| | | Periodic Strobe, Mechanical from 1-4Hz operation | 24-27 | 9-10 | 18-1B |
| | | Periodic Strobe, Electronic from 5-33Hz operation | 28-49 | 11-19 | 1C-31 |
| | | Random Random Strobe | 50-75 | 20-29 | 32-4B |
| | | Synchronous Random Strobe | 76-101 | 30-40 | 4C-65 |
| | | Open | 102-255 | 41-100 | 66-FF |
| | | Lamp Assisted Strobes (Accessed when the Control channel range = 134-137) The shutter functions are the same as in the normal shutter function range. Periodic random random and random synchronous strobes are lamp assisted. | | | |
| 10 | Shutter Function | Lamp functions. (Accessed when the Control channel range = 138-141) The shutter functions are the same as in the normal shutter function range. Periodic random random and random synchronous strobes are lamp assisted. | | | |
| | | Lamp Dimming only. (Accessed when the Control Channel range = 146-149) The shutter functions are the same as the normal shutter function range. Dimming is accomplished electronically, lowering the lamp power. Dimming will not go to black. Strobes are mechanical and will go to black. | | | |
| | | | | | |
| 11 | Dim | Close | 0 | 0 | 00 |
| | | Open | 255 | 100 | FF |
| 12 | MSpeed | Disable | 0-3 | 0-1 | 00-03 |
| | | Longest (252.7 sec.) | 4 | 2 | 04 |
| | | Shortest (0.15 sec.) | 255 | 100 | FF |

| Channel | Parameter | Description | Value (dec.) | Value (%) | Value (hex) |
|---------|---------------|---|--------------|-----------|-------------|
| 13 | Macro Note 1) | Macro Off | 0-5 | 0-2 | 00-05 |
| | | Pan sweep, small to large angle | 6-62 | 2-24 | 06-3E |
| | | Macro Off | 63-65 | 25-25 | 3F-41 |
| | | Tilt sweep, small to large angle | 66-122 | 26-48 | 42-7A |
| | | Macro Off | 123-125 | 48-49 | 7B-7D |
| | | Clockwise circle, small to large | 126-160 | 49-63 | 7E-A0 |
| | | Macro Off | 161-163 | 63-64 | A1-A3 |
| | | Counterclockwise circle, small to large | 164-198 | 64-78 | A4-C6 |
| | | Reserved | 199-255 | 78-100 | C7-FF |
| 14 | Control | The Control channel should not be crossfaded. | | | |
| | | Safe (disables all Control settings) | 0-9 | 0-4 | 00-09 |
| | | Pan & Tilt MSpeed Off | 10-19 | 4-7 | 0A-13 |
| | | Set Shutter channel to 0 for access to the following commands. | | | |
| | | Display Off | 20-28 | 8-11 | 14-1C |
| | | Display Dim | 30-38 | 12-15 | 1E-26 |
| | | Display Bright | 40-48 | 16-19 | 28-30 |
| | | Home | 60-68 | 24-27 | 3C-44 |
| | | Lamp On | 80-88 | 31-35 | 50-58 |
| | | Lamp Off | 90-98 | 35-38 | 5A-62 |
| | | Shutdown (send for 5 seconds) | 120-130 | 47-51 | 78-82 |
| | | Lamp Functions | | | |
| | | Lamp assisted strobes (Periodic and Random strobe functions are lamp assisted. Ramp functions are not lamp assisted.) | 134-137 | 53-54 | 86-89 |
| | | Lamp functions (modifies the shutter channel) | 138-141 | 54-55 | 8A-8D |
| | | Lamp/mechanical dimming (Lamp output will vary from a minimum to 1200 Watts as the mechanical dimming ranges from 0-100%) | 142-145 | 56-57 | 8E-91 |
| | | Lamp only dimming (Electronic dimming only from a minimum to 1200 Watts.) | 146-149 | 57-58 | 92-95 |
| | | To be determined | 150-255 | 59-100 | 96-FF |

Note : The pan and tilt coarse channels set the center position of the position macro. The Mspeed channel is used to control the speed of the macros.

With the Mspeed set at the default value of DMX 0-4 all internal effects complete moves at approximately 2.5 seconds. This provides a pleasing look for those customers that do not want the additional variation given by using the Mspeed channel.

With the Mspeed set between DMX 5-255 all internal effects complete moves at the selected Mspeed time (up to 25 seconds).

