

DESIGN SPOT 300E DMX TRAITS:

CHANNEL 1: Pan Movement (max. 540° or 630° User Selectable)

CHANNEL 2: 16bit Pan Movement (pan fine)

CHANNEL 3: Tilt Movement (max. 265°)

CHANNEL 4: 16bit Tilt Movement (tilt fine)

CHANNEL 5: Color Wheel

CHANNEL 6: Cyan Filter

CHANNEL 7: Magenta Filter

CHANNEL 8: Yellow Filter

CHANNEL 9: Gobo Wheel 1 (Rotating)

CHANNEL 10: Gobo Index, Gobo Rotation Speed/Direction (Gobo Wheel 1)

CHANNEL 11: Gobo Wheel 2 (Rotating)

CHANNEL 12: Effects Wheel – Prism, Frost, Gobo Macros

CHANNEL 13: Prism Control – Indexing and Rotation

CHANNEL 14: Focus Control Motor (Near ~ Far)

CHANNEL 15: Strobe (0-13Hz), Shutter close/open function + random strobe

CHANNEL 16: Dimmer (Intensity) Control

CHANNEL 17: Iris (Closed to Open)

CHANNEL 18: CMY Speed

CHANNEL 19: Color Macros (CMY and Color Wheels)

CHANNEL 20: Speed Control (Pan/Tilt movement, blackout selection)

CHANNEL 21: Special (program control + lamp on, motor reset, lamp switch off)

DMX channel function and values:

Channel 1 - Pan movement 8bit:

Channel 2 - Pan fine 16bit:

Channel 3 - Tilt movement 8bit:

Channel 4 - Tilt fine 16bit:

Channel 5 - Color Wheel:

| | |
|---------|--------------------------------------------|
| 0-13 | Open / white |
| 14-27 | Color 1 |
| 28-41 | Color 2 |
| 42-55 | Color 3 |
| 56-69 | Color 4 |
| 70-83 | Color 5 |
| 84-97 | Color 6 |
| 98-111 | Color 7 |
| 112-127 | Color 8 |
| 128-189 | Clockwise scroll from fast to slow |
| 190-193 | No rotation |
| 194-255 | Counter-Clockwise scroll from slow to fast |

Channel 6 - Cyan Color Wheel:

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|-------|-------------------------------|
| 0-255 | Cyan (0-white, 255-100% Cyan) |
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Channel 7 - Magenta Color Wheel:

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|-------|-------------------------------------|
| 0-255 | Magenta (0-white, 255-100% magenta) |
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Channel 8 - Yellow Color Wheel:

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|-------|-----------------------------------|
| 0-255 | Yellow (0-white, 255-100% Yellow) |
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Channel 9 - Gobo Wheel 1, Rotating/Replaceable Gobos:

| | |
|-------|---------------------------|
| 0-9 | Open |
| 10-19 | Gobo 1 |
| 20-29 | Gobo 2 |
| 30-39 | Gobo 3 |
| 40-49 | Gobo 4 |
| 50-59 | Gobo 5 |
| 60-69 | Gobo 6 |
| 70-89 | Gobo 1 shake slow to fast |

| | |
|---------|-------------------------------------------------|
| 90-109 | Gobo 2 shake slow to fast |
| 110-129 | Gobo 3 shake slow to fast |
| 130-149 | Gobo 4 shake slow to fast |
| 150-169 | Gobo 5 shake slow to fast |
| 170-189 | Gobo 6 shake slow to fast |
| 190-255 | Clockwise Continuous Rotation from Slow to Fast |

Channel 10 - Gobo Wheel 1 Indexing and Rotation Control:

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|---------|---------------------------------------------------|
| 0-127 | Gobo indexing |
| 128-189 | Clockwise gobo rotation from fast to slow |
| 190-193 | No rotation |
| 194-255 | Counter-Clockwise gobo rotation from slow to fast |

Channel 11 - Gobo Wheel 2, Fixed Gobos:

| | |
|---------|--------------------------------------|
| 0-13 | Open |
| 14-27 | Gobo 1 |
| 28-41 | Gobo 2 |
| 42-55 | Gobo 3 |
| 56-69 | Gobo 4 |
| 70-83 | Gobo 5 |
| 84-97 | Gobo 6 |
| 98-111 | Gobo 7 |
| 112-127 | Gobo 1 shake slow to fast |
| 128-143 | Gobo 2 shake slow to fast |
| 144-159 | Gobo 3 shake slow to fast |
| 160-175 | Gobo 4 shake slow to fast |
| 176-191 | Gobo 5 shake slow to fast |
| 192-207 | Gobo 6 shake slow to fast |
| 208-223 | Gobo 7 shake slow to fast |
| 224-255 | Clockwise Rotation from Slow to Fast |

Channel 12 - Effects Wheel, Prism, Frost, Gobo Macros:

| | |
|---------|--------------------|
| 0-31 | Open |
| 32-63 | Prism 1 – 3 Facet |
| 64-95 | Prism 2 - Infinite |
| 96-127 | Frost Filter |
| 128-135 | Macro 1 |
| 136-143 | Macro 2 |
| 144-151 | Macro 3 |
| 152-159 | Macro 4 |
| 160-167 | Macro 5 |
| 168-175 | Macro 6 |
| 176-183 | Macro 7 |

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|---------|----------|
| 184-191 | Macro 8 |
| 192-199 | Macro 9 |
| 200-207 | Macro 10 |
| 208-215 | Macro 11 |
| 216-223 | Macro 12 |
| 224-231 | Macro 13 |
| 232-239 | Macro 14 |
| 240-247 | Macro 15 |
| 248-255 | Macro 16 |

Channel 13 - Prism Control, Indexing and Rotation:

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|---------|--------------------------------------------|
| 0-127 | Prism indexing |
| 128-189 | Forwards prism rotation from fast to slow |
| 190-193 | No rotation |
| 194-255 | Backwards prism rotation from slow to fast |

Channel 14 - Focus:

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|-------|----------------------------------------|
| 0-255 | Continuous adjustment from far to near |
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Channel 15 - Shutter Control:

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|---------|-----------------------------------|
| 0-31 | Shutter closed |
| 32-63 | No function (shutter open) |
| 64-95 | Strobe effect slow to fast |
| 96-127 | No function (shutter open) |
| 128-159 | Pulse-effect in sequences |
| 160-191 | No function (shutter open) |
| 192-223 | Random strobe effect slow to fast |
| 224-255 | No function (shutter open) |

Channel 16 - Dimmer Control:

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|-------|---------------------|
| 0-255 | Intensity 0 to 100% |
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Channel 17 - Iris Control:

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|---------|--------------------------------|
| 0-191 | Max. diameter to Min. diameter |
| 192-223 | Pulse opening fast to slow |
| 224-255 | Pulse closing slow to fast |

Channel 18 - Speed Of CMY:

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|-------|----------------|
| 0-255 | Speed Max →Min |
|-------|----------------|

Channel 19 - Color Macros (CMY and Color Wheel Combinations):

| | |
|------|--------|
| 0-7 | OFF |
| 8-15 | Macro1 |

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|----------|-------------------------|
| 16-23 | Macro2 |
| 24-31 | Macro3 |
| 32-39 | Macro4 |
| 40-47 | Macro5 |
| 48-55 | Macro6 |
| 56-63 | Macro7 |
| 64-71 | Macro8 |
| 72-79 | Macro9 |
| 80-87 | Macro10 |
| 88-95 | Macro11 |
| 96-103 | Macro12 |
| 104-111 | Macro13 |
| 112-119 | Macro14 |
| 120-127 | Macro15 |
| 128-135 | Macro 16 |
| 136-143 | Macro 17 |
| 144-151 | Macro 18 |
| 152-159 | Macro 19 |
| 160-167 | Macro 20 |
| 168-175 | Macro 21 |
| 176-183 | Macro 22 |
| 184-191 | Macro 23 |
| 192-199 | Macro 24 |
| 200-207 | Macro 25 |
| 208-215 | Macro 26 |
| 216-223 | Macro 27 |
| 224-231 | Macro 28 |
| 232-239 | Macro 29 |
| 240--247 | Macro 30 |
| 248-255 | Random CMY Color Mixing |

Channel 20 - Speed Control for Pan & Tilt Movements:

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|---------|--------------------------------|
| 0-225 | Max to min speed |
| 226-235 | Blackout by movement |
| 236-245 | Blackout by all wheel changing |
| 246-255 | No function |

Channel 21 - Lamp on/off, reset, internal programs:

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|-------|-------------------------------------|
| 0-19 | Color & gobo change normal |
| 20-29 | Color change to any position |
| 30-39 | Color & gobo change to any position |
| 40-59 | Lamp on |
| 60-79 | Lamp switch off |

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|---------|-------------------------------------------|
| 80-84 | All motor reset |
| 85-87 | Scan motor reset |
| 88-90 | Colors motor reset |
| 91-93 | Gobo motor reset |
| 94-96 | Shutter & Dimmer motor reset |
| 97-99 | Other motor reset |
| 100-119 | Internal program 1 (scene1~8 of EEPROM) |
| 120-139 | Internal program 2 (scene9~16 of EEPROM) |
| 140-159 | Internal program 3 (scene17~24 of EEPROM) |
| 160-179 | Internal program 4 (scene25~32 of EEPROM) |
| 180-199 | Internal program 5 (scene33~40 of EEPROM) |
| 200-219 | Internal program 6 (scene41~48 of EEPROM) |
| 220-239 | Internal program 7 (scene49~56 of EEPROM) |
| 240-255 | Music Control (scene of Program 1) |