

DMX protocol

| Robin Perfect 150 FW RGBA - DMX protocol | | | | |
|---|----------|-----------|---|-----------------|
| Version: 1.0 Mode 1 -Standard 16-bit, Mode 2 -Reduced 8-bit | | | | |
| Mode/channel | | DMX Value | Function | Type of control |
| 1 | 2 | | | |
| 1 | 1 | | Power/Special functions | |
| | | 0 -19 | Reserved (0=default) <i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe“ channel 20/15 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</i> | |
| | | 20-24 | Display ON | step |
| | | 25-29 | Display OFF | step |
| | | 30-34 | RGBA colour mixing mode | step |
| | | 35-39 | CMY colour mixing mode | step |
| | | 40-59 | Reserved | |
| | | 60 - 64 | Dimmer curve - square law | step |
| | | 65 - 69 | Dimmer curve - linear | step |
| | | 70 - 74 | Fan mode: Auto | step |
| | | 75 - 79 | Fan mode: High | step |
| | | 80-84 | White point 8000K ON | step |
| | | 85-89 | White point 8000K OFF | step |
| | | 90-94 | Fan mode: Quiet | step |
| | | 95 -129 | Reserved | |
| | | | <i>To activate following functions, stop in DMX value for at least 3 seconds.</i> | |
| | | 130 - 149 | Reserved | |
| | | 150 - 159 | Zoom reset | step |
| | | 160 - 169 | Reserved | |
| | | | <i>Tungsten effect simulation for whites 2700K and 3200K</i> | |
| | | 170-171 | Tungsten effect simulation (750W) On | step |
| | | 172-173 | Tungsten effect simulation (1000W) On | step |
| | | 174-175 | Tungsten effect simulation (1200W) On | step |
| | | 176-177 | Tungsten effect simulation (2000W) On | step |
| | | 178-179 | Tungsten effect simulation (2500W) On | step |
| | | 180-181 | Tungsten effect simulation Off | step |
| | | 182-255 | Reserved | |
| 2 | 2 | | Virtual colour wheel | |
| | | 0 | No function (0=default) | step |
| | | 1-2 | Filter 4 (Medium Bastard Amber) | step |
| | | 3-4 | Filter 25 (Sunset Red) | step |
| | | 5-6 | Filter 19 (Fire) | step |
| | | 7-8 | Filter 26 (Bright Red) | step |
| | | 9-10 | Filter 58 (Lavender) | step |
| | | 11-12 | Filter 68 (Sky Blue) | step |
| | | 13-14 | Filter 36 (Medium Pink) | step |
| | | 15-16 | Filter 89 (Moss Green) | step |
| | | 17-18 | Filter 88 (Lime Green) | step |
| | | 19-20 | Filter 90 (Dark Yellow Green) | step |
| | | 21-22 | Filter 49 (Medium Purple) | step |
| | | 23-24 | Filter 52 (Light Lavender) | step |
| | | 25-26 | Filter 102 (Light Amber) | step |

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|--------------|---|-----------|--|-----------------|
| 1 | 2 | | | |
| | | 27-28 | Filter 103 (Straw) | step |
| | | 29-30 | Filter 140 (Summer Blue) | step |
| | | 31-32 | Filter 124 (Dark Green) | step |
| | | 33-34 | Filter 106 (Primary Red) | step |
| | | 35-36 | Filter 111 (Dark Pink) | step |
| | | 37-38 | Filter 115 (Peacock Blue) | step |
| | | 39-40 | Filter 126 (Mauve) | step |
| | | 41-42 | Filter 117 (Steel Blue) | step |
| | | 43-44 | Filter 118 (Light Blue) | step |
| | | 45-46 | Filter 122 (Fern Green) | step |
| | | 47-48 | Filter 182 (Light Red) | step |
| | | 49-50 | Filter 121 (Filter Green) | step |
| | | 51-52 | Filter 128 (Bright Pink) | step |
| | | 53-54 | Filter 131 (Marine Blue) | step |
| | | 55-56 | Filter 132 (Medium Blue) | step |
| | | 57-58 | Filter 134 (Golden Amber) | step |
| | | 59-60 | Filter 135 (Deep Golden Amber) | step |
| | | 61-62 | Filter 136 (Pale Lavender) | step |
| | | 63-64 | Filter 137 (Special Lavender) | step |
| | | 65-66 | Filter 138 (Pale Green) | step |
| | | 67-68 | Filter 798 (Chrysalis Pink) | step |
| | | 69-70 | Filter 141 (Bright Blue) | step |
| | | 71-72 | Filter 147 (Apricot) | step |
| | | 73-74 | Filter 148 (Bright Rose) | step |
| | | 75-76 | Filter 152 (Pale Gold) | step |
| | | 77-78 | Filter 154 (Pale Rose) | step |
| | | 79-80 | Filter 157 (Pink) | step |
| | | 81-82 | Filter 143 (Pale Navy Blue) | step |
| | | 83-84 | Filter 162 (Bastard Amber) | step |
| | | 85-86 | Filter 164 (Flame Red) | step |
| | | 87-88 | Filter 165 (Daylight Blue) | step |
| | | 89-90 | Filter 169 (Lilac Tint) | step |
| | | 91-92 | Filter 170 (Deep Lavender) | step |
| | | 93-94 | Filter 172 (Lagoon Blue) | step |
| | | 95-96 | Filter 194 (Surprise Pink) | step |
| | | 97-98 | Filter 180 (Dark Lavender) | step |
| | | 99-100 | Filter 181 (Congo Blue) | step |
| | | 101-102 | Filter 197 (Alice Blue) | step |
| | | 103-104 | Filter 201 (Full C.T. Blue) | step |
| | | 105-106 | Filter 202 (Half C.T. Blue) | step |
| | | 107-108 | Filter 203 (Quarter C.T. Blue) | step |
| | | 109-110 | Filter 204 (Full C.T. Orange) | step |
| | | 111-112 | Filter 219 (Fluorescent Green) | step |
| | | 113-114 | Filter 206 (Quarter C.T. Orange) | step |
| | | 115-116 | Filter 247 (Filter Minus Green) | step |
| | | 117-118 | Filter 248 (Half Minus Green) | step |
| | | 119-120 | Filter 281 (Three Quarter C.T. Blue) | step |
| | | 121-122 | Filter 285 (Three Quarter C.T. Orange) | step |
| | | 123-124 | Filter 352 (Glacier Blue) | step |

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| Mode/channel | | DMX Value | Function | Type of control |
|--------------|----------|-----------|--|-----------------|
| 1 | 2 | | | |
| | | 125-126 | Filter 353 (Lighter Blue) | step |
| | | 127-128 | Filter 507 (Madge) | step |
| | | 129-130 | Filter 778 (Millennium Gold) | step |
| | | 131-132 | Filter 793 (Vanity Fair) | step |
| | | 133-235 | Raw DMX | proportional |
| | | 236-245 | Rainbow effect (with fade time) from slow-> fast | proportional |
| | | 246-255 | Rainbow effect (without fade time) from slow-> fast | proportional |
| 3 | 3 | | Red/Cyan (8 bit)* | |
| | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| 4 | * | | Red/Cyan (16bit)* | |
| | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 5 | 4 | | Green/Magenta (8 bit) * | |
| | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| 6 | * | | Green/Magenta (16bit) * | |
| | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 7 | 5 | | Blue/Yellow (8 bit) * | |
| | | 0 - 255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| 8 | * | | Blue/ Yellow (16bit) * | |
| | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 9 | 6 | | Amber (8 bit) | |
| | | | <i>If RGBA mode is selected:</i> | |
| | | 0-255 | Colour saturation control - coarse 0-100% (255=default) | proportional |
| | | | <i>If CMY mode is selected:</i> | |
| | | 0 - 255 | No function | |
| 10 | * | | Amber (16 bit) | |
| | | 0 - 255 | Colour saturation control - fine (255=default) | proportional |
| 11 | 7 | | CTC | |
| | | | <i>If function "White Point 8000K" is ON</i> | |
| | | 0-255 | Col. temperature correction from 8000K to 2700K -for whites only (0=8000K, 64=5600K, 128=4200K, 192=3200K, 255=2700K) To get colour temperatures stated above, RGBA channels have to be set at the same value e.g. 255DMX (0=default) (To activate Tungsten effect at 2700K and 3200K , set DMX value at "Power/Special functions" channel) | proportional |
| | | | <i>If function "White Point 8000K" is OFF</i> | |
| | | 0-255 | Colour temperature correction for from cool white to 2700K | proportional |
| 12 | 8 | | Colour Mix control | |
| | | | <i>Defines relation between colour channels</i> | |
| | | | "Virtual" = Virtual Colours (Virtual Colour Wheel) | |
| | | | "Colour mix" = Colour channels (RGBA/CMY) | |
| | | 0-9 | Virtual colors ("Virtual" has priority) | step |
| | | 10-19 | Maximum mode (highest values have priority) | step |
| | | 20-29 | Minimum mode (lowest values have priority) | step |
| | | 30-39 | Multiply mode (multiply Virtual and Colour Mix) | step |
| | | 40-49 | Addition mode (Virtual + Colour mix) (45=default) | step |
| | | 50-59 | Subtraction mode (Colour mix – Virtual) | step |
| | | 60-69 | Inverted Subtraction mode (Colour mix-Virtual) | step |
| | | 70-128 | Reserved | |
| | | 129 | Virtual colors (virtual has priority) | step |
| | | 130-254 | Crossfade (crossfade between Virtual and Colour mix) | proportional |

| Robin Parfect 150 RGBA/Parfect 150 FW RGBA - colours on Virtual Colour Wheel | | | | |
|---|----------------------|------------------------|-----------------------|------------------------|
| Colour name | Red (DMX) | Green (DMX) | Blue (DMX) | Amber (DMX) |
| Filter 4 (Medium Bastard Amber) | 60 | 141 | 33 | 239 |
| Filter 25 (Sunset Red) | 255 | 9 | 2 | 223 |
| Filter 19 (Fire) | 255 | 0 | 0 | 36 |
| Filter 26 (Bright Red) | 255 | 0 | 0 | 0 |
| Filter 58 (Lavender) | 0 | 47 | 165 | 255 |
| Filter 68 (Sky Blue) | 0 | 250 | 138 | 45 |
| Filter 36 (Medium Pink) | 200 | 78 | 26 | 255 |
| Filter 89 (Moss Green) | 0 | 255 | 0 | 80 |
| Filter 88 (Lime Green) | 122 | 255 | 0 | 103 |
| Filter 90 (Dark Yellow Green) | 2 | 255 | 0 | 0 |
| Filter 49 (Medium Purple) | 255 | 0 | 27 | 0 |
| Filter 52 (Light Lavender) | 176 | 221 | 66 | 255 |
| Filter 102 (Light Amber) | 213 | 255 | 0 | 255 |
| Filter 103 (Straw) | 193 | 255 | 19 | 245 |
| Filter 140 (Summer Blue) | 74 | 255 | 42 | 51 |
| Filter 124 (Dark Green) | 16 | 255 | 4 | 15 |
| Filter 106 (Primary Red) | 255 | 3 | 1 | 0 |
| Filter 111 (Dark Pink) | 255 | 116 | 48 | 255 |
| Filter 115 (Peacock Blue) | 4 | 255 | 37 | 29 |
| Filter 126 (Mauve) | 255 | 0 | 39 | 0 |
| Filter 117 (Steel Blue) | 130 | 255 | 40 | 55 |
| Filter 118 (Light Blue) | 14 | 255 | 78 | 11 |
| Filter 122 (Fern Green) | 3 | 255 | 4 | 102 |
| Filter 182 (Light Red) | 255 | 16 | 2 | 0 |
| Filter 121 (Filter Green) | 143 | 255 | 0 | 0 |
| Filter 128 (Bright Pink) | 255 | 0 | 31 | 103 |
| Filter 131 (Marine Blue) | 14 | 255 | 34 | 81 |
| Filter 132 (Medium Blue) | 7 | 228 | 120 | 0 |
| Filter 134 (Golden Amber) | 164 | 83 | 0 | 0 |
| Filter 135 (Deep Golden Amber) | 255 | 50 | 0 | 0 |
| Filter 136 (Pale Lavender) | 134 | 123 | 30 | 10 |
| Filter 137 (Special Lavender) | 129 | 123 | 40 | 10 |
| Filter 138 (Pale Green) | 186 | 255 | 14 | 32 |
| Filter 798 (Chrysalis Pink) | 49 | 17 | 144 | 32 |
| Filter 141 (Bright Blue) | 0 | 225 | 62 | 0 |
| Filter 147 (Apricot) | 122 | 102 | 5 | 88 |
| Filter 148 (Bright Rose) | 255 | 30 | 13 | 39 |
| Filter 152 (Pale Gold) | 97 | 128 | 11 | 102 |
| Filter 154 (Pale Rose) | 96 | 105 | 11 | 103 |
| Filter 157 (Pink) | 228 | 85 | 18 | 69 |
| Filter 143 (Pale Navy Blue) | 0 | 210 | 75 | 73 |
| Filter 162 (Bastard Amber) | 208 | 252 | 25 | 184 |
| Filter 164 (Flame Red) | 253 | 0 | 0 | 82 |
| Filter 165 (Daylight Blue) | 9 | 255 | 106 | 61 |
| Filter 169 (Lilac Tint) | 159 | 194 | 28 | 71 |
| Filter 170 (Deep Lavender) | 195 | 177 | 78 | 149 |

| Colour name | Red (DMX) | Green (DMX) | Blue (DMX) | Amber (DMX) |
|--|----------------------|------------------------|-----------------------|------------------------|
| Filter 172 (Lagoon Blue) | 0 | 255 | 71 | 10 |
| Filter 194 (Surprise Pink) | 109 | 131 | 55 | 92 |
| Filter 180 (Dark Lavender) | 139 | 107 | 126 | 19 |
| Filter 181 (Congo Blue) | 30 | 0 | 255 | 3 |
| Filter 197 (Alice Blue) | 75 | 222 | 156 | 26 |
| Filter 201 (Full C.T. Blue) | 135 | 242 | 64 | 36 |
| Filter 202 (Half C.T. Blue) | 180 | 255 | 48 | 35 |
| Filter 203 (Quarter C.T. Blue) | 172 | 255 | 40 | 74 |
| Filter 204 (Full C.T. Orange) | 196 | 155 | 4 | 103 |
| Filter 219 (Fluorescent Green) | 80 | 155 | 23 | 26 |
| Filter 206 (Quarter C.T. Orange) | 137 | 185 | 18 | 92 |
| Filter 247 (Filter Minus Green) | 122 | 175 | 57 | 245 |
| Filter 248 (Half Minus Green) | 118 | 199 | 41 | 255 |
| Filter 281 (Three Quarter C.T. Blue) | 191 | 255 | 76 | 5 |
| Filter 285 (Three Quarter C.T. Orange) | 210 | 182 | 7 | 29 |
| Filter 352 (Glacier Blue) | 0 | 173 | 55 | 51 |
| Filter 353 (Lighter Blue) | 0 | 222 | 51 | 83 |
| Filter 507 (Madge) | 255 | 0 | 0 | 109 |
| Filter 778 (Millennium Gold) | 190 | 32 | 0 | 143 |
| Filter 793 (Vanity Fair) | 255 | 5 | 26 | 48 |
| | | | | |