DMX CHART

Martin MAC One

Model MAC One · Prepared by Krank'd · krankd.com.au

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20ch (Compact) | 36ch (Basic) | 108ch (Ludicrous) | 20ch (Compact Direct)

Compact DMX Mode

20CH (COMPACT)	VALUE	FUNCTION
1		**Strobe/shutter**
	000–019	Shutter closed
	020–049	Shutter open
	050–200	Strobe (slow → fast)
	201–210	Shutter open
	211–255	Random strobe (slow → fast)
2	000–255	**Dimmer (16-bit coarse)** · Closed → Open
3	000–255	**Dimmer (16-bit fine)** · Fine control (interpolation)
4	000–255	**Red (16-bit coarse)** · Intensity 0 → 100%
5	000–255	**Red (16-bit fine)** · Fine control (interpolation)
6	000–255	**Green (16-bit coarse)** · Intensity 0 → 100%
7	000–255	**Green (16-bit fine)** · Fine control (interpolation)
8	000–255	**Blue (16-bit coarse)** · Intensity 0 → 100%
9	000–255	**Blue (16-bit fine)** · Fine control (interpolation)
10		**CTC**
	000–038	2 000 K
	039	2 050 K
	040–126	… (source elides the values between)
	127	6 450 K
	128	6 500 K
	129	6 550 K
	130–254	… (source elides the values between)
	255	12 850 K
11		**Tint (Green Magenta Shift)**
	000	Δuv - 0.05 (full shift towards magenta)
	001–126	Δuv - 0.05 → Δuv 0.00
	127–128	Δuv 0.00 (no shift - on black body curve)
	129–254	Δuv 0.00 → Δuv + 0.05
	255	Δuv + 0.05 (full shift towards green)
12		**Virtual color wheel**
	000–010	Open
	011–012	Moroccan Pink (LEE 790)
	013–014	Pink (LEE 157)
	015–016	Special Rose Pink (LEE 332)
	017–018	Follies Pink (LEE 328)

20CH (COMPACT)	VALUE	FUNCTION
	019-020	Fuchsia Pink (LEE 345)
	021-022	Surprise Pink (LEE 194)
	023-024	Congo Blue (LEE 181)
	025-026	Tokyo Blue (LEE 071)
	027-028	Deep Blue (LEE 120)
	029-030	Just Blue (LEE 079)
	031-032	Medium Blue (LEE 132)
	033-034	Double CT Blue (LEE 200)
	035-036	Slate Blue (LEE 161)
	037-038	Full CT Blue (LEE 201)
	039-040	Half CT Blue (LEE 202)
	041-042	Steel Blue (LEE 117)
	043-044	Lighter Blue (LEE 353)
	045-046	Light Blue (LEE 118)
	047-048	Medium Blue Green (LEE 116)
	049-050	Dark Green (LEE 124)
	051-052	Primary Green (LEE 139)
	053-054	Moss Green (LEE 089)
	055-056	Fern Green (LEE 122)
	057-058	Jas Green (LEE 738)
	059-060	Lime Green (LEE 088)
	061-062	Spring Yellow (LEE 100)
	063-064	Deep Amber (LEE 104)
	065-066	Chrome Orange (LEE 179)
	067-068	Orange (LEE 105)
	069-070	Gold Amber (LEE 021)
	071-072	Millennium Gold (LEE 778)
	073-074	Deep Golden Amber (LEE 135)
	075-076	Flame Red (LEE 164)
	077-078	Red Magenta (LEE 113)
	079-080	Medium Lavender (LEE 343)
	081-082	Pure White (White LEDs only)
	083-084	Pure Red (Red LEDs only)
	085-086	Pure Yellow (Red + Green LEDs only)
	087-088	Pure Green (Green LEDs only)
	089-090	Pure Cyan (Green + Blue LEDs only)
	091-092	Pure Blue (Blue LEDs only)
	093-094	Pure Magenta (Blue + Red LEDs only)
	095-096	Peacock Blue (LEE 115)
	097-098	Dark Lavender (LEE 180)
	099-100	Double CT Orange (LEE 287)

20CH (COMPACT)	VALUE	FUNCTION
	101-102	Full CT Orange (LEE 204)
	103-104	Half CT Orange (LEE 205)
	105-106	Deep Straw (LEE 015)
	107-190	No function
	191-214	Continuous rotation: CW, fast → slow
	215-219	Continuous rotation: Stop (wheel stops at current color)
	220-243	Continuous rotation: CCW, slow → fast
	244-255	Random colors: Fast → slow
13	000-255	**Zoom (16-bit coarse)** · 16-bit values across ch 13–14, as printed: 0–51400 Narrow → wide; 51401–57825 Pulse forward fast → slow; 57826–59110 Zoom stops at current position; 59111–65535 Pulse backward slow → fast
14	000-255	**Zoom (16-bit fine)** · Fine control (interpolation)
15	000-255	**Pan (16-bit coarse)** · Left → right
16	000-255	**Pan (16-bit fine)** · Fine control (interpolation)
17	000-255	**Tilt (16-bit coarse)** · Forward → backward
18	000-255	**Tilt (16-bit fine)** · Fine control (interpolation)
19		**Fixture control / settings**
	000-009	Exit calibration function (if active) and return to normal control
	010-014	Reset fixture (5 sec.)
	015-016	No function
	017	Reset Beam only (5 sec.)
	018	Reset pan and tilt only (5 sec.)
	019-022	No function
	023	Linear dimmer curve (1 sec.)
	024	Square law dimmer curve (default, 1 sec.)
	025	Inverse square law dimmer curve (1 sec.)
	026	S-Curve dimmer curve (1 sec.)
	027	Pan and tilt speed = Standard (1 sec.)
	028	Pan and tilt speed = Fast (default, 1 sec.)
	029	Pan and tilt speed = Smooth (1 sec.)
	030-035	No function
	036	Video tracking = ON (1 sec.)
	037	Video tracking = OFF (default, 1 sec.)
	038	Extended gamut Mode (default, 1 sec.)
	039	Calibrated color Mode (1 sec.)
	040-051	No function
	052	Control panel display = ON (default, 1 sec.)
	053	Control panel display = OFF (1 sec.)
	054	Regulated fan speed, fixed output intensity (default, 1 sec.)
	055	Full fan speed, regulated output intensity (1 sec.)
	056	Medium fan speed, regulated output intensity (1 sec.)

20CH (COMPACT)	VALUE	FUNCTION
	057	Low fan speed, regulated output intensity (1 sec.)
	058	Ultra-low fan speed, regulated light output intensity (1 sec.)
	059-060	No function
	061	Hibernation Mode = ON (1 sec.)
	062	Hibernation Mode = OFF (default, 1 sec.)
	063-064	No function
	065	Pan and tilt limits = ON (1 sec.)
	066	Pan and tilt limits = OFF (default, 1 sec.)
	067	Store lower pan limit (1 sec.)
	068	Store upper pan limit (1 sec.)
	069	Store lower tilt limit (1 sec.)
	070	Store upper tilt limit (1 sec.)
	071	Reset pan and tilt limits (1 sec.)
	072	Tungsten emulation = ON (1 sec.)
	073	Tungsten emulation = OFF (default, 1 sec.)
	074	Stand-alone: Record current look (5 sec.)
	075	Offline mode = Run stand-alone show (5 sec.)
	076	Offline mode = Hold last look (default, 5 sec.)
	077-091	No function
	092	Compact mode backlight = ON (1 sec.)
	093	Compact mode backlight = OFF (default, 1 sec.)
	094-099	No function
	100	Enable calibration adjustment (5 sec.)
	101	Store pan and tilt calibration (5 sec.)
	102	Store dimmer calibration (5 sec.)
	103-113	No function
	114	Store zoom calibration (5 sec.)
	115-198	No function
	199	Reset ALL calibrations to factory defaults (5 sec.)
	200-255	No function
20		**LED PWM frequency**
	000	Hybrid LED dimming mode
	001-127	Variable -2%–0%
	128	2400 Hz
	129-254	Variable 0% to +2%
	255	No function

Basic DMX Mode

36CH (BASIC)	VALUE	FUNCTION
1		**Strobe/shutter**
	000-019	Shutter closed

36CH (BASIC)	VALUE	FUNCTION
	020-049	Shutter open
	050-200	Strobe (slow → fast)
	201-210	Shutter open
	211-255	Random strobe (slow → fast)
2	000-255	**Dimmer (16-bit coarse)** · Closed → Open
3	000-255	**Dimmer (16-bit fine)** · Fine control (interpolation)
4	000-255	**Red (16-bit coarse)** · Intensity 0 → 100%
5	000-255	**Red (16-bit fine)** · Fine control (interpolation)
6	000-255	**Green (16-bit coarse)** · Intensity 0 → 100%
7	000-255	**Green (16-bit fine)** · Fine control (interpolation)
8	000-255	**Blue (16-bit coarse)** · Intensity 0 → 100%
9	000-255	**Blue (16-bit fine)** · Fine control (interpolation)
10		**CTC**
	000-038	2 000 K
	039	2 050 K
	040-126	… (source elides the values between)
	127	6 450 K
	128	6 500 K
	129	6 550 K
	130-254	… (source elides the values between)
	255	12 850 K
11		**Tint (Green Magenta Shift)**
	000	Δuv - 0.05 (full shift towards magenta)
	001-126	Δuv - 0.05 → Δuv 0.00
	127-128	Δuv 0.00 (no shift - on black body curve)
	129-254	Δuv 0.00 → Δuv + 0.05
	255	Δuv + 0.05 (full shift towards green)
12		**Virtual color wheel**
	000-010	Open
	011-012	Moroccan Pink (LEE 790)
	013-014	Pink (LEE 157)
	015-016	Special Rose Pink (LEE 332)
	017-018	Follies Pink (LEE 328)
	019-020	Fuchsia Pink (LEE 345)
	021-022	Surprise Pink (LEE 194)
	023-024	Congo Blue (LEE 181)
	025-026	Tokyo Blue (LEE 071)
	027-028	Deep Blue (LEE 120)
	029-030	Just Blue (LEE 079)
	031-032	Medium Blue (LEE 132)

36CH (BASIC)	VALUE	FUNCTION
	033-034	Double CT Blue (LEE 200)
	035-036	Slate Blue (LEE 161)
	037-038	Full CT Blue (LEE 201)
	039-040	Half CT Blue (LEE 202)
	041-042	Steel Blue (LEE 117)
	043-044	Lighter Blue (LEE 353)
	045-046	Light Blue (LEE 118)
	047-048	Medium Blue Green (LEE 116)
	049-050	Dark Green (LEE 124)
	051-052	Primary Green (LEE 139)
	053-054	Moss Green (LEE 089)
	055-056	Fern Green (LEE 122)
	057-058	Jas Green (LEE 738)
	059-060	Lime Green (LEE 088)
	061-062	Spring Yellow (LEE 100)
	063-064	Deep Amber (LEE 104)
	065-066	Chrome Orange (LEE 179)
	067-068	Orange (LEE 105)
	069-070	Gold Amber (LEE 021)
	071-072	Millennium Gold (LEE 778)
	073-074	Deep Golden Amber (LEE 135)
	075-076	Flame Red (LEE 164)
	077-078	Red Magenta (LEE 113)
	079-080	Medium Lavender (LEE 343)
	081-082	Pure White (White LEDs only)
	083-084	Pure Red (Red LEDs only)
	085-086	Pure Yellow (Red + Green LEDs only)
	087-088	Pure Green (Green LEDs only)
	089-090	Pure Cyan (Green + Blue LEDs only)
	091-092	Pure Blue (Blue LEDs only)
	093-094	Pure Magenta (Blue + Red LEDs only)
	095-096	Peacock Blue (LEE 115)
	097-098	Dark Lavender (LEE 180)
	099-100	Double CT Orange (LEE 287)
	101-102	Full CT Orange (LEE 204)
	103-104	Half CT Orange (LEE 205)
	105-106	Deep Straw (LEE 015)
	107-190	No function
	191-214	Continuous rotation: CW, fast → slow
	215-219	Continuous rotation: Stop (wheel stops at current color)
	220-243	Continuous rotation: CCW, slow → fast

36CH (BASIC)	VALUE	FUNCTION
	244-255	Random colors: Fast → slow
13	000-255	**Zoom (16-bit coarse)** · 16-bit values across ch 13–14, as printed: 0–51400 Narrow → wide; 51401–57825 Pulse forward fast → slow; 57826–59110 Zoom stops at current position; 59111–65535 Pulse backward slow → fast
14	000-255	**Zoom (16-bit fine)** · Fine control (interpolation)
15	000-255	**Pan (16-bit coarse)** · Left → right
16	000-255	**Pan (16-bit fine)** · Fine control (interpolation)
17	000-255	**Tilt (16-bit coarse)** · Forward → backward
18	000-255	**Tilt (16-bit fine)** · Fine control (interpolation)
19		**Fixture control / settings**
	000-009	Exit calibration function (if active) and return to normal control
	010-014	Reset fixture (5 sec.)
	015-016	No function
	017	Reset Beam only (5 sec.)
	018	Reset pan and tilt only (5 sec.)
	019-022	No function
	023	Linear dimmer curve (1 sec.)
	024	Square law dimmer curve (default, 1 sec.)
	025	Inverse square law dimmer curve (1 sec.)
	026	S-Curve dimmer curve (1 sec.)
	027	Pan and tilt speed = Standard (1 sec.)
	028	Pan and tilt speed = Fast (default, 1 sec.)
	029	Pan and tilt speed = Smooth (1 sec.)
	030-035	No function
	036	Video tracking = ON (1 sec.)
	037	Video tracking = OFF (default, 1 sec.)
	038	Extended gamut Mode (default, 1 sec.)
	039	Calibrated color Mode (1 sec.)
	040-051	No function
	052	Control panel display = ON (default, 1 sec.)
	053	Control panel display = OFF (1 sec.)
	054	Regulated fan speed, fixed output intensity (default, 1 sec.)
	055	Full fan speed, regulated output intensity (1 sec.)
	056	Medium fan speed, regulated output intensity (1 sec.)
	057	Low fan speed, regulated output intensity (1 sec.)
	058	Ultra-low fan speed, regulated light output intensity (1 sec.)
	059-060	No function
	061	Hibernation Mode = ON (1 sec.)
	062	Hibernation Mode = OFF (default, 1 sec.)
	063-064	No function
	065	Pan and tilt limits = ON (1 sec.)

36CH (BASIC)	VALUE	FUNCTION
	066	Pan and tilt limits = OFF (default, 1 sec.)
	067	Store lower pan limit (1 sec.)
	068	Store upper pan limit (1 sec.)
	069	Store lower tilt limit (1 sec.)
	070	Store upper tilt limit (1 sec.)
	071	Reset pan and tilt limits (1 sec.)
	072	Tungsten emulation = ON (1 sec.)
	073	Tungsten emulation = OFF (default, 1 sec.)
	074	Stand-alone: Record current look (5 sec.)
	075	Offline mode = Run stand-alone show (5 sec.)
	076	Offline mode = Hold last look (default, 5 sec.)
	077-091	No function
	092	Compact mode backlight = ON (1 sec.)
	093	Compact mode backlight = OFF (default, 1 sec.)
	094-099	No function
	100	Enable calibration adjustment (5 sec.)
	101	Store pan and tilt calibration (5 sec.)
	102	Store dimmer calibration (5 sec.)
	103-113	No function
	114	Store zoom calibration (5 sec.)
	115-198	No function
	199	Reset ALL calibrations to factory defaults (5 sec.)
	200-255	No function
20		**LED PWM frequency**
	000	Hybrid LED dimming mode
	001-127	Variable -2%–0%
	128	2400 Hz
	129-254	Variable 0% to +2%
	255	No function
21		**Beam P3 Mix**
	000-026	DMX Mode: Pure DMX control, P3 pixels are ignored
	027-228	Mix Mode: Crossfade DMX → P3 pixel control (at 27: Pure DMX control, P3 pixels are ignored; at 228: Pure P3 pixel control)
	229-255	Video Mode: P3 with DMX overlay (DMX channels "color" the P3 pixel data)
22	000-255	**FX 1** · FX selection 1–255
23		**FX 1 adjust**
	000-126	Reverse fast → slow
	127-129	Stop
	130-255	Slow → fast
24	000-255	**FX 2** · FX selection 1–255
25		**FX 2 adjust**

36CH (BASIC)	VALUE	FUNCTION
	000-126	Reverse fast → slow
	127-129	Stop
	130-255	Slow → fast
26		**FX Synchronization**
	000	No sync
	001	Offset shift 10°
	002-034	Offset shift 20°–340°
	035	Offset shift 350°
	036	Synchronized (all fixtures start FX cycles at same time)
	037-100	No function
	101-120	Random FX cycle start
	121-140	Random FX cycle duration
	141-255	No function
27		**Backlight strobe/shutter**
	000-019	Shutter closed
	020-049	Shutter open
	050-200	Strobe slow → fast
	201-210	Shutter open
	211-255	Random strobe slow → fast
28	000-255	**Backlight dimmer (16-bit coarse)** · Closed → Open
29	000-255	**Backlight dimmer (16-bit fine)** · Fine control (interpolation)
30	000-255	**Backlight Red** · Intensity 0 → 100%
31	000-255	**Backlight Green** · Intensity 0 → 100%
32	000-255	**Backlight Blue** · Intensity 0 → 100%
33		**Backlight CTC**
	000-038	2 000 K
	039	2 050 K
	040-126	… (source elides the values between)
	127	6 450 K
	128	6 500 K
	129	6 550 K
	130-254	… (source elides the values between)
	255	12 850 K
34		**Backlight Tint (Green-Magenta Shift)**
	000	Δuv - 0.05 (full shift towards magenta)
	001-126	Δuv - 0.05 → Δuv 0.00
	127-128	Δuv 0.00 (no shift - on black body curve)
	129-254	Δuv 0.00 → Δuv + 0.05
	255	Δuv + 0.05 (full shift towards green)
35		**Backlight virtual color wheel**

36CH (BASIC)	VALUE	FUNCTION
	000-010	Open
	011-012	Moroccan Pink (LEE 790)
	013-014	Pink (LEE 157)
	015-016	Special Rose Pink (LEE 332)
	017-018	Follies Pink (LEE 328)
	019-020	Fuchsia Pink (LEE 345)
	021-022	Surprise Pink (LEE 194)
	023-024	Congo Blue (LEE 181)
	025-026	Tokyo Blue (LEE 071)
	027-028	Deep Blue (LEE 120)
	029-030	Just Blue (LEE 079)
	031-032	Medium Blue (LEE 132)
	033-034	Double CT Blue (LEE 200)
	035-036	Slate Blue (LEE 161)
	037-038	Full CT Blue (LEE 201)
	039-040	Half CT Blue (LEE 202)
	041-042	Steel Blue (LEE 117)
	043-044	Lighter Blue (LEE 353)
	045-046	Light Blue (LEE 118)
	047-048	Medium Blue Green (LEE 116)
	049-050	Dark Green (LEE 124)
	051-052	Primary Green (LEE 139)
	053-054	Moss Green (LEE 089)
	055-056	Fern Green (LEE 122)
	057-058	Jas Green (LEE 738)
	059-060	Lime Green (LEE 088)
	061-062	Spring Yellow (LEE 100)
	063-064	Deep Amber (LEE 104)
	065-066	Chrome Orange (LEE 179)
	067-068	Orange (LEE 105)
	069-070	Gold Amber (LEE 021)
	071-072	Millennium Gold (LEE 778)
	073-074	Deep Golden Amber (LEE 135)
	075-076	Flame Red (LEE 164)
	077-078	Red Magenta (LEE 113)
	079-080	Medium Lavender (LEE 343)
	081-082	Pure White (White LEDs only)
	083-084	Pure Red (Red LEDs only)
	085-086	Pure Yellow (Red + Green LEDs only)
	087-088	Pure Green (Green LEDs only)
	089-090	Pure Cyan (Green + Blue LEDs only)

36CH (BASIC)	VALUE	FUNCTION
	091-092	Pure Blue (Blue LEDs only)
	093-094	Pure Magenta (Blue + Red LEDs only)
	095-096	Peacock Blue (LEE 115)
	097-098	Dark Lavender (LEE 180)
	099-100	Double CT Orange (LEE 287)
	101-102	Full CT Orange (LEE 204)
	103-104	Half CT Orange (LEE 205)
	105-106	Deep Straw (LEE 015)
	107-190	No function
	191-214	Continuous rotation: CW, fast → slow
	215-219	Continuous rotation: Stop (wheel stops at current color)
	220-243	Continuous rotation: CCW, slow → fast
	244-255	Random colors: Fast → slow
36		**Backlight P3 Mix**
	000-026	DMX Mode: Pure DMX control, P3 pixels are ignored
	027-228	Mix Mode: Crossfade DMX → P3 pixel control (at 27: Pure DMX control, P3 pixels are ignored; at 228: Pure P3 pixel control)
	229-255	Video Mode: P3 with DMX overlay (DMX channels "color" the P3 pixel data)

Ludicrous DMX Mode

108CH (LUDICROUS)	VALUE	FUNCTION
1		**Strobe/shutter**
	000-019	Shutter closed
	020-049	Shutter open
	050-200	Strobe (slow → fast)
	201-210	Shutter open
	211-255	Random strobe (slow → fast)
2	000-255	**Dimmer (16-bit coarse)** · Closed → Open
3	000-255	**Dimmer (16-bit fine)** · Fine control (interpolation)
4	000-255	**Red (16-bit coarse)** · Intensity 0 → 100%
5	000-255	**Red (16-bit fine)** · Fine control (interpolation)
6	000-255	**Green (16-bit coarse)** · Intensity 0 → 100%
7	000-255	**Green (16-bit fine)** · Fine control (interpolation)
8	000-255	**Blue (16-bit coarse)** · Intensity 0 → 100%
9	000-255	**Blue (16-bit fine)** · Fine control (interpolation)
10		**CTC**
	000-038	2 000 K
	039	2 050 K
	040-126	… (source elides the values between)
	127	6 450 K
	128	6 500 K

108CH (LUDICROUS)	VALUE	FUNCTION
	129	6 550 K
	130-254	… (source elides the values between)
	255	12 850 K
11		**Tint (Green Magenta Shift)**
	000	Δuv - 0.05 (full shift towards magenta)
	001-126	Δuv - 0.05 → Δuv 0.00
	127-128	Δuv 0.00 (no shift - on black body curve)
	129-254	Δuv 0.00 → Δuv + 0.05
	255	Δuv + 0.05 (full shift towards green)
12		**Virtual color wheel**
	000-010	Open
	011-012	Moroccan Pink (LEE 790)
	013-014	Pink (LEE 157)
	015-016	Special Rose Pink (LEE 332)
	017-018	Follies Pink (LEE 328)
	019-020	Fuchsia Pink (LEE 345)
	021-022	Surprise Pink (LEE 194)
	023-024	Congo Blue (LEE 181)
	025-026	Tokyo Blue (LEE 071)
	027-028	Deep Blue (LEE 120)
	029-030	Just Blue (LEE 079)
	031-032	Medium Blue (LEE 132)
	033-034	Double CT Blue (LEE 200)
	035-036	Slate Blue (LEE 161)
	037-038	Full CT Blue (LEE 201)
	039-040	Half CT Blue (LEE 202)
	041-042	Steel Blue (LEE 117)
	043-044	Lighter Blue (LEE 353)
	045-046	Light Blue (LEE 118)
	047-048	Medium Blue Green (LEE 116)
	049-050	Dark Green (LEE 124)
	051-052	Primary Green (LEE 139)
	053-054	Moss Green (LEE 089)
	055-056	Fern Green (LEE 122)
	057-058	Jas Green (LEE 738)
	059-060	Lime Green (LEE 088)
	061-062	Spring Yellow (LEE 100)
	063-064	Deep Amber (LEE 104)
	065-066	Chrome Orange (LEE 179)
	067-068	Orange (LEE 105)
	069-070	Gold Amber (LEE 021)

108CH (LUDICROUS)	VALUE	FUNCTION
	071-072	Millennium Gold (LEE 778)
	073-074	Deep Golden Amber (LEE 135)
	075-076	Flame Red (LEE 164)
	077-078	Red Magenta (LEE 113)
	079-080	Medium Lavender (LEE 343)
	081-082	Pure White (White LEDs only)
	083-084	Pure Red (Red LEDs only)
	085-086	Pure Yellow (Red + Green LEDs only)
	087-088	Pure Green (Green LEDs only)
	089-090	Pure Cyan (Green + Blue LEDs only)
	091-092	Pure Blue (Blue LEDs only)
	093-094	Pure Magenta (Blue + Red LEDs only)
	095-096	Peacock Blue (LEE 115)
	097-098	Dark Lavender (LEE 180)
	099-100	Double CT Orange (LEE 287)
	101-102	Full CT Orange (LEE 204)
	103-104	Half CT Orange (LEE 205)
	105-106	Deep Straw (LEE 015)
	107-190	No function
	191-214	Continuous rotation: CW, fast → slow
	215-219	Continuous rotation: Stop (wheel stops at current color)
	220-243	Continuous rotation: CCW, slow → fast
	244-255	Random colors: Fast → slow
13	000-255	**Zoom (16-bit coarse)** · 16-bit values across ch 13–14, as printed: 0–51400 Narrow → wide; 51401–57825 Pulse forward fast → slow; 57826–59110 Zoom stops at current position; 59111–65535 Pulse backward slow → fast
14	000-255	**Zoom (16-bit fine)** · Fine control (interpolation)
15	000-255	**Pan (16-bit coarse)** · Left → right
16	000-255	**Pan (16-bit fine)** · Fine control (interpolation)
17	000-255	**Tilt (16-bit coarse)** · Forward → backward
18	000-255	**Tilt (16-bit fine)** · Fine control (interpolation)
19		**Fixture control / settings**
	000-009	Exit calibration function (if active) and return to normal control
	010-014	Reset fixture (5 sec.)
	015-016	No function
	017	Reset Beam only (5 sec.)
	018	Reset pan and tilt only (5 sec.)
	019-022	No function
	023	Linear dimmer curve (1 sec.)
	024	Square law dimmer curve (default, 1 sec.)
	025	Inverse square law dimmer curve (1 sec.)

108CH (LUDICROUS)	VALUE	FUNCTION
	026	S-Curve dimmer curve (1 sec.)
	027	Pan and tilt speed = Standard (1 sec.)
	028	Pan and tilt speed = Fast (default, 1 sec.)
	029	Pan and tilt speed = Smooth (1 sec.)
	030-035	No function
	036	Video tracking = ON (1 sec.)
	037	Video tracking = OFF (default, 1 sec.)
	038	Extended gamut Mode (default, 1 sec.)
	039	Calibrated color Mode (1 sec.)
	040-051	No function
	052	Control panel display = ON (default, 1 sec.)
	053	Control panel display = OFF (1 sec.)
	054	Regulated fan speed, fixed output intensity (default, 1 sec.)
	055	Full fan speed, regulated output intensity (1 sec.)
	056	Medium fan speed, regulated output intensity (1 sec.)
	057	Low fan speed, regulated output intensity (1 sec.)
	058	Ultra-low fan speed, regulated light output intensity (1 sec.)
	059-060	No function
	061	Hibernation Mode = ON (1 sec.)
	062	Hibernation Mode = OFF (default, 1 sec.)
	063-064	No function
	065	Pan and tilt limits = ON (1 sec.)
	066	Pan and tilt limits = OFF (default, 1 sec.)
	067	Store lower pan limit (1 sec.)
	068	Store upper pan limit (1 sec.)
	069	Store lower tilt limit (1 sec.)
	070	Store upper tilt limit (1 sec.)
	071	Reset pan and tilt limits (1 sec.)
	072	Tungsten emulation = ON (1 sec.)
	073	Tungsten emulation = OFF (default, 1 sec.)
	074	Stand-alone: Record current look (5 sec.)
	075	Offline mode = Run stand-alone show (5 sec.)
	076	Offline mode = Hold last look (default, 5 sec.)
	077-091	No function
	092	Compact mode backlight = ON (1 sec.)
	093	Compact mode backlight = OFF (default, 1 sec.)
	094-099	No function
	100	Enable calibration adjustment (5 sec.)
	101	Store pan and tilt calibration (5 sec.)
	102	Store dimmer calibration (5 sec.)
	103-113	No function

108CH (LUDICROUS)	VALUE	FUNCTION
	114	Store zoom calibration (5 sec.)
	115-198	No function
	199	Reset ALL calibrations to factory defaults (5 sec.)
	200-255	No function
20		**LED PWM frequency**
	000	Hybrid LED dimming mode
	001-127	Variable -2%–0%
	128	2400 Hz
	129-254	Variable 0% to +2%
	255	No function
21		**Beam P3 Mix**
	000-026	DMX Mode: Pure DMX control, P3 pixels are ignored
	027-228	Mix Mode: Crossfade DMX → P3 pixel control (at 27: Pure DMX control, P3 pixels are ignored; at 228: Pure P3 pixel control)
	229-255	Video Mode: P3 with DMX overlay (DMX channels "color" the P3 pixel data)
22	000-255	**FX 1** · FX selection 1–255
23		**FX 1 adjust**
	000-126	Reverse fast → slow
	127-129	Stop
	130-255	Slow → fast
24	000-255	**FX 2** · FX selection 1–255
25		**FX 2 adjust**
	000-126	Reverse fast → slow
	127-129	Stop
	130-255	Slow → fast
26		**FX Synchronization**
	000	No sync
	001	Offset shift 10°
	002-034	Offset shift 20°–340°
	035	Offset shift 350°
	036	Synchronized (all fixtures start FX cycles at same time)
	037-100	No function
	101-120	Random FX cycle start
	121-140	Random FX cycle duration
	141-255	No function
27		**Backlight strobe/shutter**
	000-019	Shutter closed
	020-049	Shutter open
	050-200	Strobe slow → fast
	201-210	Shutter open
	211-255	Random strobe slow → fast

108CH (LUDICROUS)	VALUE	FUNCTION
28	000-255	**Backlight dimmer (16-bit coarse)** · Closed → Open
29	000-255	**Backlight dimmer (16-bit fine)** · Fine control (interpolation)
30	000-255	**Backlight Red** · Intensity 0 → 100%
31	000-255	**Backlight Green** · Intensity 0 → 100%
32	000-255	**Backlight Blue** · Intensity 0 → 100%
33		**Backlight CTC**
	000-038	2 000 K
	039	2 050 K
	040-126	… (source elides the values between)
	127	6 450 K
	128	6 500 K
	129	6 550 K
	130-254	… (source elides the values between)
	255	12 850 K
34		**Backlight Tint (Green-Magenta Shift)**
	000	Δuv - 0.05 (full shift towards magenta)
	001-126	Δuv - 0.05 → Δuv 0.00
	127-128	Δuv 0.00 (no shift - on black body curve)
	129-254	Δuv 0.00 → Δuv + 0.05
	255	Δuv + 0.05 (full shift towards green)
35		**Backlight virtual color wheel**
	000-010	Open
	011-012	Moroccan Pink (LEE 790)
	013-014	Pink (LEE 157)
	015-016	Special Rose Pink (LEE 332)
	017-018	Follies Pink (LEE 328)
	019-020	Fuchsia Pink (LEE 345)
	021-022	Surprise Pink (LEE 194)
	023-024	Congo Blue (LEE 181)
	025-026	Tokyo Blue (LEE 071)
	027-028	Deep Blue (LEE 120)
	029-030	Just Blue (LEE 079)
	031-032	Medium Blue (LEE 132)
	033-034	Double CT Blue (LEE 200)
	035-036	Slate Blue (LEE 161)
	037-038	Full CT Blue (LEE 201)
	039-040	Half CT Blue (LEE 202)
	041-042	Steel Blue (LEE 117)
	043-044	Lighter Blue (LEE 353)
	045-046	Light Blue (LEE 118)
	047-048	Medium Blue Green (LEE 116)

108CH (LUDICROUS)	VALUE	FUNCTION
	049-050	Dark Green (LEE 124)
	051-052	Primary Green (LEE 139)
	053-054	Moss Green (LEE 089)
	055-056	Fern Green (LEE 122)
	057-058	Jas Green (LEE 738)
	059-060	Lime Green (LEE 088)
	061-062	Spring Yellow (LEE 100)
	063-064	Deep Amber (LEE 104)
	065-066	Chrome Orange (LEE 179)
	067-068	Orange (LEE 105)
	069-070	Gold Amber (LEE 021)
	071-072	Millennium Gold (LEE 778)
	073-074	Deep Golden Amber (LEE 135)
	075-076	Flame Red (LEE 164)
	077-078	Red Magenta (LEE 113)
	079-080	Medium Lavender (LEE 343)
	081-082	Pure White (White LEDs only)
	083-084	Pure Red (Red LEDs only)
	085-086	Pure Yellow (Red + Green LEDs only)
	087-088	Pure Green (Green LEDs only)
	089-090	Pure Cyan (Green + Blue LEDs only)
	091-092	Pure Blue (Blue LEDs only)
	093-094	Pure Magenta (Blue + Red LEDs only)
	095-096	Peacock Blue (LEE 115)
	097-098	Dark Lavender (LEE 180)
	099-100	Double CT Orange (LEE 287)
	101-102	Full CT Orange (LEE 204)
	103-104	Half CT Orange (LEE 205)
	105-106	Deep Straw (LEE 015)
	107-190	No function
	191-214	Continuous rotation: CW, fast → slow
	215-219	Continuous rotation: Stop (wheel stops at current color)
	220-243	Continuous rotation: CCW, slow → fast
	244-255	Random colors: Fast → slow
36		**Backlight P3 Mix**
	000-026	DMX Mode: Pure DMX control, P3 pixels are ignored
	027-228	Mix Mode: Crossfade DMX → P3 pixel control (at 27: Pure DMX control, P3 pixels are ignored; at 228: Pure P3 pixel control)
	229-255	Video Mode: P3 with DMX overlay (DMX channels "color" the P3 pixel data)
37	000-255	**Backlight Pixel 1 Red** · 0 → 100%
38	000-255	**Backlight Pixel 1 Green** · 0 → 100%

108CH (LUDICROUS)	VALUE	FUNCTION
39	000–255	**Backlight Pixel 1 Blue** · 0 → 100%
40	000–255	**Backlight Pixel 2 Red** · 0 → 100%
41	000–255	**Backlight Pixel 2 Green** · 0 → 100%
42	000–255	**Backlight Pixel 2 Blue** · 0 → 100%
43	000–255	**Backlight Pixel 3 Red** · 0 → 100%
44	000–255	**Backlight Pixel 3 Green** · 0 → 100%
45	000–255	**Backlight Pixel 3 Blue** · 0 → 100%
46	000–255	**Backlight Pixel 4 Red** · 0 → 100%
47	000–255	**Backlight Pixel 4 Green** · 0 → 100%
48	000–255	**Backlight Pixel 4 Blue** · 0 → 100%
49	000–255	**Backlight Pixel 5 Red** · 0 → 100%
50	000–255	**Backlight Pixel 5 Green** · 0 → 100%
51	000–255	**Backlight Pixel 5 Blue** · 0 → 100%
52	000–255	**Backlight Pixel 6 Red** · 0 → 100%
53	000–255	**Backlight Pixel 6 Green** · 0 → 100%
54	000–255	**Backlight Pixel 6 Blue** · 0 → 100%
55	000–255	**Backlight Pixel 7 Red** · 0 → 100%
56	000–255	**Backlight Pixel 7 Green** · 0 → 100%
57	000–255	**Backlight Pixel 7 Blue** · 0 → 100%
58	000–255	**Backlight Pixel 8 Red** · 0 → 100%
59	000–255	**Backlight Pixel 8 Green** · 0 → 100%
60	000–255	**Backlight Pixel 8 Blue** · 0 → 100%
61	000–255	**Backlight Pixel 9 Red** · 0 → 100%
62	000–255	**Backlight Pixel 9 Green** · 0 → 100%
63	000–255	**Backlight Pixel 9 Blue** · 0 → 100%
64	000–255	**Backlight Pixel 10 Red** · 0 → 100%
65	000–255	**Backlight Pixel 10 Green** · 0 → 100%
66	000–255	**Backlight Pixel 10 Blue** · 0 → 100%
67	000–255	**Backlight Pixel 11 Red** · 0 → 100%
68	000–255	**Backlight Pixel 11 Green** · 0 → 100%
69	000–255	**Backlight Pixel 11 Blue** · 0 → 100%
70	000–255	**Backlight Pixel 12 Red** · 0 → 100%
71	000–255	**Backlight Pixel 12 Green** · 0 → 100%
72	000–255	**Backlight Pixel 12 Blue** · 0 → 100%
73	000–255	**Backlight Pixel 13 Red** · 0 → 100%
74	000–255	**Backlight Pixel 13 Green** · 0 → 100%
75	000–255	**Backlight Pixel 13 Blue** · 0 → 100%
76	000–255	**Backlight Pixel 14 Red** · 0 → 100%
77	000–255	**Backlight Pixel 14 Green** · 0 → 100%

108CH (LUDICROUS)	VALUE	FUNCTION
78	000–255	**Backlight Pixel 14 Blue** · 0 → 100%
79	000–255	**Backlight Pixel 15 Red** · 0 → 100%
80	000–255	**Backlight Pixel 15 Green** · 0 → 100%
81	000–255	**Backlight Pixel 15 Blue** · 0 → 100%
82	000–255	**Backlight Pixel 16 Red** · 0 → 100%
83	000–255	**Backlight Pixel 16 Green** · 0 → 100%
84	000–255	**Backlight Pixel 16 Blue** · 0 → 100%
85	000–255	**Backlight Pixel 17 Red** · 0 → 100%
86	000–255	**Backlight Pixel 17 Green** · 0 → 100%
87	000–255	**Backlight Pixel 17 Blue** · 0 → 100%
88	000–255	**Backlight Pixel 18 Red** · 0 → 100%
89	000–255	**Backlight Pixel 18 Green** · 0 → 100%
90	000–255	**Backlight Pixel 18 Blue** · 0 → 100%
91	000–255	**Backlight Pixel 19 Red** · 0 → 100%
92	000–255	**Backlight Pixel 19 Green** · 0 → 100%
93	000–255	**Backlight Pixel 19 Blue** · 0 → 100%
94	000–255	**Backlight Pixel 20 Red** · 0 → 100%
95	000–255	**Backlight Pixel 20 Green** · 0 → 100%
96	000–255	**Backlight Pixel 20 Blue** · 0 → 100%
97	000–255	**Backlight Pixel 21 Red** · 0 → 100%
98	000–255	**Backlight Pixel 21 Green** · 0 → 100%
99	000–255	**Backlight Pixel 21 Blue** · 0 → 100%
100	000–255	**Backlight Pixel 22 Red** · 0 → 100%
101	000–255	**Backlight Pixel 22 Green** · 0 → 100%
102	000–255	**Backlight Pixel 22 Blue** · 0 → 100%
103	000–255	**Backlight Pixel 23 Red** · 0 → 100%
104	000–255	**Backlight Pixel 23 Green** · 0 → 100%
105	000–255	**Backlight Pixel 23 Blue** · 0 → 100%
106	000–255	**Backlight Pixel 24 Red** · 0 → 100%
107	000–255	**Backlight Pixel 24 Green** · 0 → 100%
108	000–255	**Backlight Pixel 24 Blue** · 0 → 100%

Compact Direct DMX Mode

20CH (COMPACT DIRECT)	VALUE	FUNCTION
1		**Beam strobe/shutter**
	000-019	Shutter closed
	020-049	Shutter open
	050-200	Strobe slow → fast
	201-210	Shutter open

20CH (COMPACT DIRECT)	VALUE	FUNCTION
	211-255	Random strobe slow → fast
2	000-255	**Beam dimmer (16-bit coarse)** · Closed → Open
3	000-255	**Beam dimmer (16-bit fine)** · Fine control (interpolation)
4	000-255	**Beam Red (16-bit coarse)** · Intensity 0 → 100%
5	000-255	**Beam Red (16-bit fine)** · Fine control (interpolation)
6	000-255	**Beam Green (16-bit coarse)** · Intensity 0 → 100%
7	000-255	**Beam Green (16-bit fine)** · Fine control (interpolation)
8	000-255	**Beam Blue (16-bit coarse)** · Intensity 0 → 100%
9	000-255	**Beam Blue (16-bit fine)** · Fine control (interpolation)
10	000-255	**Beam Lime (16-bit coarse)** · Intensity 0 → 100%
11	000-255	**Beam Lime (16-bit fine)** · Fine control (interpolation)
12	000-255	**No function**
13	000-255	**Zoom (16-bit coarse)** · 16-bit values across ch 13–14, as printed: 0–51400 Narrow → wide; 51401–57825 Pulse forward fast → slow; 57826–59110 Zoom stops at current position; 59111–65535 Pulse backward reverse slow → fast
14	000-255	**Zoom (16-bit fine)** · Fine control (interpolation)
15	000-255	**Pan (16-bit coarse)** · Left → right
16	000-255	**Pan (16-bit fine)** · Fine control (interpolation)
17	000-255	**Tilt (16-bit coarse)** · Forward → backward
18	000-255	**Tilt (16-bit fine)** · Fine control (interpolation)
19		**Fixture control / settings**
	000-009	Exit calibration function (if active) and return to normal control
	010-014	Reset fixture (5 sec.)
	015-016	No function
	017	Reset Beam only (5 sec.)
	018	Reset pan and tilt only (5 sec.)
	019-022	No function
	023	Linear dimmer curve (1 sec.)
	024	Square law dimmer curve (default, 1 sec.)
	025	Inverse square law dimmer curve (1 sec.)
	026	S-Curve dimmer curve (1 sec.)
	027	Pan and tilt speed = Standard (1 sec.)
	028	Pan and tilt speed = Fast (default, 1 sec.)
	029	Pan and tilt speed = Smooth (1 sec.)
	030-035	No function
	036	Video tracking = ON (1 sec.)
	037	Video tracking = OFF (default, 1 sec.)
	038	Extended gamut Mode (default, 1 sec.)
	039	Calibrated color Mode (1 sec.)
	040-051	No function

20CH (COMPACT DIRECT)	VALUE	FUNCTION
	052	Control panel display = ON (default, 1 sec.)
	053	Control panel display = OFF (1 sec.)
	054	Regulated fan speed, fixed output intensity (default, 1 sec.)
	055	Full fan speed, regulated output intensity (1 sec.)
	056	Medium fan speed, regulated output intensity (1 sec.)
	057	Low fan speed, regulated output intensity (1 sec.)
	058	Ultra-low fan speed, regulated light output intensity (1 sec.)
	059-060	No function
	061	Hibernation Mode = ON (1 sec.)
	062	Hibernation Mode = OFF (default, 1 sec.)
	063-064	No function
	065	Pan and tilt limits = ON (1 sec.)
	066	Pan and tilt limits = OFF (default, 1 sec.)
	067	Store lower pan limit (1 sec.)
	068	Store upper pan limit (1 sec.)
	069	Store lower tilt limit (1 sec.)
	070	Store upper tilt limit (1 sec.)
	071	Reset pan and tilt limits (1 sec.)
	072	Tungsten emulation = ON (1 sec.)
	073	Tungsten emulation = OFF (default, 1 sec.)
	074	Stand-alone: Record current look (5 sec.)
	075	Offline mode = Run stand-alone show (5 sec.)
	076	Offline mode = Hold last look (default, 5 sec.)
	077-091	No function
	092	Compact mode backlight = ON (1 sec.)
	093	Compact mode backlight = OFF (default, 1 sec.)
	094-099	No function
	100	Enable calibration adjustment (5 sec.)
	101	Store pan and tilt calibration (5 sec.)
	102	Store dimmer calibration (5 sec.)
	103-113	No function
	114	Store zoom calibration (5 sec.)
	115-198	No function
	199	Reset ALL calibrations to factory defaults (5 sec.)
	200-255	No function
20		**LED PWM frequency**
	000	Hybrid LED dimming mode
	001-127	Variable -2%–0%
	128	2400 Hz
	129-254	Variable 0% to +2%

20CH (COMPACT DIRECT)	VALUE	FUNCTION
	255	No function

※ 16-bit (coarse/fine) channels are shown in the source as a single DMX Value range of 0–65535 spanning two channels; here each is split into a coarse row (value semantics, 8-bit 000-255) and a fine row (continuous interpolation). Set fine to 000 to reproduce a stated coarse value.

※ Zoom (ch 13–14) is the exception: the source prints four 16-bit bands (0–51400, 51401–57825, 57826–59110, 59111–65535) across both channels. They are kept exactly as printed in the coarse row and are not converted to 8-bit coarse values.

※ Fixture control / settings commands must be held for the number of seconds shown after each command.

※ CTC and Backlight CTC: the source prints only the values shown and elides the rest with …; it gives no figure for the values between.

※ In Compact mode, the Backlight LEDs follow colors and intensity from the Beam LED (unless disabled using the Control/Settings channel).

※ In Compact Direct mode, the Backlight LEDs follow colors and intensity from the Beam LED (unless disabled via the Control/Settings channel).

※ Ludicrous: Backlight RGB (channels 30-32) is merged with backlight pixel control (channels 37-108) using HTP. Pixels are numbered as in the manual's Backlight pixel layout drawing, with the fixture in hanging orientation, pan at 50% and display and connectors at back of fixture. The source prints pixels 1 and 24 and elides 2 to 23 with …; each follows the same Red, Green, Blue order.

※ FX 1 and FX 2 select from the FX Macros table in the source (pp. 51–59), not reproduced here.