

Phantra L4X offers four DMX personalities, selected under **Channel**. All modes work over DMX, Art-Net and sACN; Modes 2–4 also support dual control (DMX + Art-Net / sACN), with the control channels on DMX and the pixel channels on the network.

Mode	Channels	Description	Dual-control split	Fixtures / universe
Mode 1	26	Basic: master color, dimmer, strobe and macros for both LED systems	Single control only	19
Mode 2	49	RGBL pixel: primary LEDs mapped per pixel (RGBL); GLODOT master color and macros	DMX 1–21 Net 22–49	10
Mode 3	105	GLODOT pixel: primary master color and macros; GLODOT mapped per pixel (RGB)	DMX 1–19 Net 20–105	4
Mode 4	127	Extended full pixel: every primary and GLODOT pixel mapped	DMX 1–13 Net 14–127	4

Channel assignment by mode

Function	Mode 1 (26CH)	Mode 2 (49CH)	Mode 3 (105CH)	Mode 4 (127CH)
Pan	1	1	1	1
Pan fine	2	2	2	2
Tilt	3	3	3	3
Tilt fine	4	4	4	4
Pan / tilt speed	5	5	5	5
Zoom	6	6	6	6
Zoom fine	7	7	7	7
Lens rotate FX	8	8	8	8
Control / reset *	9	9	9	9
Master dimmer	10	10	10	10
Master dimmer fine	11	11	–	–
Primary LED dimmer	–	18	–	–
Primary LED shutter / strobe	12	19	11	11
Primary LED red / green / blue / lime	14–17	–	12–15	–
Primary LED macro	21	–	16	–
Primary LED macro speed	22	–	17	–
GLODOT dimmer	–	–	20	42
GLODOT shutter / strobe	13	12	21	43
GLODOT red / green / blue	18–20	13–15	–	–
GLODOT macro	23	16	–	–
GLODOT macro speed	24	17	–	–
Macro color (virtual color wheel)	25	20	18	12
CTO	26	21	19	13
Primary pixels 1–7 (RGBL, 4 ch each)	–	22–49	–	14–41
GLODOT pixels 8–35 (RGB, 3 ch each)	–	–	22–105	44–127

– = not present in that mode. * Control / reset functions take effect after the value is held for 5 seconds. Rotation direction depends on the head orientation and pan/tilt settings.

Value ranges

Function	DMX value	Setting
Pan / tilt	0–255	Pan 0–540° tilt 0–210°
Pan / tilt speed	0–255	Fast to slow (default 0)
Zoom	0–255	Narrow to wide
Lens rotate FX	0–5	Stop / default position (beam)
	6–62	Clockwise indexing
	63–127	Counterclockwise indexing
	128–192	Clockwise continuous rotation, slow to fast
	193–255	Counterclockwise continuous rotation, slow to fast <i>Requires the zoom at its narrow position.</i>
Control / reset *	0–200	Reserved
	201–215	Lens assembly reset
	216–230	Pan / tilt reset
	231–245	Full fixture reset
Dimmers	0–255	0–100%
Shutter / strobe (primary and GLODOT)	0–9	Shutter closed (blackout)
	10–49	Synchronous strobe, slow to fast
	50–89	Pulse strobe, slow to fast
	90–129	Random strobe, slow to fast
	130–169	Gradient strobe 1 (dark to light), slow to fast
	170–209	Gradient strobe 2 (light to dark), slow to fast
	210–255	Shutter open <i>Set to 210–255 for light output.</i>
Color channels	0–255	0–100% (red, green, blue, lime)
Macros (primary and GLODOT)	0–5	Off (default)
	6–20	Macro program 1
	21–245	Macro programs 2–16 (15 values each: 21–35, 36–50, 51–65 ... 231–245)
	246–255	Random macro scroll
Macro speed	0–255	Slow to fast
Macro color	0–255	Virtual color wheel presets (see table)
CTO	0–17	Open
	18–34	8,000 K
	35–51	7,500 K
	52–68	6,500 K
	69–85	6,000 K
	86–102	5,600 K
	103–119	5,000 K
	120–136	4,500 K
	137–153	4,000 K
	154–170	3,500 K
	171–187	3,200 K
	188–204	3,000 K
	205–221	2,700 K
	222–238	2,500 K
	239–255	2,000 K

Virtual color wheel (macro color channel)

Preset colors for both LED systems; also colors the built-in macros.

DMX	Preset	DMX	Preset	DMX	Preset
0–5	No effect	86–90	Pink Carnation	171–175	Dark Blue
6–10	Red	91–95	Light Lavender	176–180	Leaf Green
11–15	Green	96–100	Sky Blue	181–185	Dark Green
16–20	Blue	101–105	Blue Hue	186–190	Mauve
21–25	Cyan	106–110	Dark Yellow Green	191–195	Deep Golden Amber
26–30	Yellow	111–115	Spring Yellow	196–200	Pale Lavender
31–35	Magenta	116–120	Light Amber	201–205	Primary Green
36–40	Medium Yellow	121–125	Straw Tint	206–210	Bright Blue
41–45	Straw Tint	126–130	Deep Amber	211–215	Apricot
46–50	Sunrise Peach	131–135	Orange	216–220	Pale Gold
51–55	Fire	136–140	Light Rose	221–225	Flame Red
56–60	Medium Amber	141–145	Medium Rose	226–230	Deep Orange
61–65	Gold Amber	146–150	Dark Pink	231–235	Lilac Tint
66–70	Dark Amber	151–155	Magenta 2	236–240	White 7,000 K
71–75	Sunrise Red	156–160	Peacock Blue	241–245	White 3,700 K
76–80	Light Pink	161–165	Steel Blue	246–250	White 5,000 K
81–85	Medium Pink	166–170	Light Blue	251–255	Pure White

Pixel channel map

First (red) channel of each pixel. Primary pixels use four consecutive channels (R, G, B, L); GLODOT pixels use three (R, G, B). In dual control, these channels are on the network universe. See the Pixel Cell Reference Chart for pixel positions.

Primary	Mode 2	Mode 4	GLODO T	Mod e 3	Mod e 4	GLODO T	Mod e 3	Mod e 4	GLODO T	Mod e 3	Mod e 4	GLODO T	Mod e 3	Mod e 4
1	22	14	8	22	44	15	43	65	22	64	86	29	85	107
2	26	18	9	25	47	16	46	68	23	67	89	30	88	110
3	30	22	10	28	50	17	49	71	24	70	92	31	91	113
4	34	26	11	31	53	18	52	74	25	73	95	32	94	116
5	38	30	12	34	56	19	55	77	26	76	98	33	97	119
6	42	34	13	37	59	20	58	80	27	79	101	34	100	122
7	46	38	14	40	62	21	61	83	28	82	104	35	103	125

Address spacing: Mode 1 001, 027, 053... | Mode 2 001, 050, 099... | Mode 3 001, 106, 211, 316 | Mode 4 001, 128, 255, 382.