Physos offers two DMX modes, selected under **DMX Setup › Channel Mode**. Both work over wired DMX, Art-Net and sACN. Hold Control / Reset values for 3 seconds to activate, then return the channel to 0. Rotation direction depends on the head orientation and pan/tilt settings.

Mode	Channels	Difference	Start addresses
Mode 1 – Basic	54	8-bit gobo wheel positioning	001, 055, 109, 163…
Mode 2 – Extended	56	Adds gobo wheel 1 and 2 position fine channels	001, 057, 113, 169…

MODE 1 – BASIC | 54 CHANNELS

Ch	Function	DMX Value	Setting
1	**Pan**	0–255	
2	**Pan Fine (16-Bit)**	0–255	
3	**Tilt**	0–255	
4	**Tilt Fine (16-Bit)**	0–255	
5	**Pan / Tilt Speed**	0	Standard (default)
		1	Max Speed
		2–255	Pan / Tilt Speed, fast to slow
6	**Control / Reset (hold 3 s)**	0–5	(reserved)
		6–7	Standby Mode: ON
		8–9	Standby Mode: OFF
		10–19	Reserved
		20–24	LCD ON
		25–29	LCD OFF
		30–31	Fans On During Black Out
		32–33	Fans Off During Black Out
		34–39	(reserved)
		40–44	Pan / Tilt Mode: Speed
		45–49	Pan / Tilt Mode: Time
		50–54	Blackout During Movement: ON
		55–59	Blackout During Movement: OFF
		60–64	Blackout During Gobo Transition: ON
		65–69	Blackout During Gobo Transition: OFF
		70–74	Blackout During Color Transition: ON
		75–79	Blackout During Color Transition: OFF
		80–84	Fan Mode: Auto
		85–89	Fan Mode: High
		90–91	Fan Mode: Quiet
		92–94	(reserved)
		95–99	Dimmer Curve: Super Square Law
		100–104	Focus Tracking: ON
		105–109	Focus Tracking: OFF
		110–114	Dimmer Curve: Square Law
		115–119	Dimmer Curve: Linear
		120–124	Parking Position: ON
		125–129	Parking Position: OFF
		130–139	Reset; ALL (excl. Pan/Tilt)
		140–149	Reset; Pan/Tilt

Ch	Function	DMX Value	Setting
		150–159	Reset; Color System
		160–169	Reset; Gobo/Animation Wheel
		170–179	(reserved)
		180–189	Reset; Zoom/Focus/Frost/Prism
		190–199	Reset; Iris / Framing System
		200–209	Reset; ALL (incl Pan/Tilt.)
		210–218	Gobo Indexing: Max Speed + Shortcut Enabled
		221–222	Gobo Indexing: Follow Speed and Direction
		223–224	Gobo Indexing: Max Speed, Follow Direction
		225–255	(reserved)
7	**LED PWM Frequency**	0–4	Open
		5–9	300 Hz
		10–14	600 Hz
		15–19	1200 Hz
		20–24	2400 Hz
		25–255	(reserved)
8	**Reserved**	0–255	(reserved)
9	**Reserved**	0–255	(reserved)
10	**Color Wheel 1**	0–20	Open
		21	Deep Red
		43	Deep Blue
		64	Orange
		86	Green
		107	Congo Blue
		128–129	Open
		130–189	Color Wheel Indexing
		190–215	Clockwise Rotation, fast to slow
		216–217	Stop
		218–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Color Scroll, fast to slow
11	**Color Wheel 1 Index – Fine**	0–255	
12	**Color Wheel 2**	0–20	Open
		21	Color Split
		43	Laser Green
		64	Lavender
		86	CRI Filter 80
		107	CRI Filter 90
		128–129	Open
		130–189	Color Wheel Indexing
		190–215	Clockwise Rotation, fast to slow
		216–217	Stop
		218–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Color Scroll, fast to slow

Ch	Function	DMX Value	Setting
13	**Color Wheel 2 Index – Fine**	0–255	
14	**Cyan**	0–255	0 white to 255 Full Cyan
15	**Magenta**	0–255	0 white to 255 Full Magenta
16	**Yellow**	0–255	0 white to 255 Full Yellow
17	**CTO**	0–255	0 white to 255 Full CTO
18	**Reserved**	0–255	
19	**Reserved**	0–255	
20	**Reserved**	0–255	
21	**Reserved**	0–255	
22	**Reserved**	0–255	
23	**Animation Wheel**	0–19	Open
		20–127	Variable Position into Light Path
		128–255	(reserved)
24	**Animation Wheel Rotation**	0	No Rotation, default
		1–127	Clockwise Rotation, fast to slow
		128	Stop
		129–255	Counter Clockwise Rotation, slow to fast
25	**Animation Wheel Macro FX**	0–7	Open
		8–9	Macro 1
		10–11	Macro 2
		12–13	Macro 3
		14–15	Macro 4
		16–17	Macro 5
		18–19	Macro 6
		20–21	Macro 7
		22–23	Macro 8
		24–25	Macro 9
		26–27	Macro 10
		28–255	(reserved)
26	**Gobo Wheel 1**	*Index Mode – Position set on Channel 27*	
		0–4	Open
		5–8	Gobo 1
		9–13	Gobo 2
		14–17	Gobo 3
		18–22	Gobo 4
		23–26	Gobo 5
		27–31	Gobo 6
		Rotation Mode – Rotation set on Channel 27	
		32–36	Gobo 1
		36–40	Gobo 2
		41–44	Gobo 3
		45–49	Gobo 4
		50–54	Gobo 5
		55–59	Gobo 6
		Gobo Shake Index Mode – Index set on Channel 27	
		60–71	Gobo 1

Ch	Function	DMX Value	Setting
		72–83	Gobo 2
		84–95	Gobo 3
		96–106	Gobo 4
		107–118	Gobo 5
		119–129	Gobo 6
		Gobo Shake Rotate Mode – Rotation set on Channel 27	
		130–141	Gobo 1
		142–153	Gobo 2
		154–165	Gobo 3
		166–176	Gobo 4
		177–188	Gobo 5
		189–199	Gobo 6
		200–201	Open
		202–222	Clockwise Rotation, fast to slow
		223–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Gobo Scroll, fast to slow
27	**Gobo 1 Index / Rotation**	*Gobo Index Modes – Set on Channel 26*	
		0–255	Gobo Indexing
		Gobo Rotation Modes – Set on Channel 26	
		0	No Effect, default
		1–127	Clockwise Rotation, fast to slow
		128	Stop
		129–255	Counter Clockwise Rotation, slow to fast
28	**Gobo 1 Index / Rotation Fine**	0–255	
29	**Gobo Wheel 2**	*Index Mode – Position set on Channel 30*	
		0–4	Open
		5–8	Gobo 1
		9–13	Gobo 2
		14–17	Gobo 3
		18–22	Gobo 4
		23–26	Gobo 5
		27–31	Gobo 6
		Rotation Mode – Rotation set on Channel 30	
		32–36	Gobo 1
		36–40	Gobo 2
		41–44	Gobo 3
		45–49	Gobo 4
		50–54	Gobo 5
		55–59	Gobo 6
		Gobo Shake Index Mode – Index set on Channel 30	
		60–71	Gobo 1
		72–83	Gobo 2
		84–95	Gobo 3

Ch	Function	DMX Value	Setting
		96–106	Gobo 4
		107–118	Gobo 5
		119–129	Gobo 6
		Gobo Shake Rotate Mode – Rotation set on Channel 30	
		130–141	Gobo 1
		142–153	Gobo 2
		154–165	Gobo 3
		166–176	Gobo 4
		177–188	Gobo 5
		189–199	Gobo 6
		200–201	Open
		202–222	Clockwise Rotation, fast to slow
		223–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Gobo Scroll, fast to slow
30	**Gobo 2 Index / Rotation**	*Gobo Index Modes – Set on Channel 29*	
		0–255	Gobo Indexing
		Gobo Rotation Modes – Set on Channel 29	
		0	No Effect, default
		1–127	Clockwise Rotation, fast to slow
		128	Stop
		129–255	Counter Clockwise Rotation, slow to fast
31	**Gobo 2 Index / Rotation Fine**	0–255	
32	**Prism 1 (Circular)**	0–31	Open (Default 0)
		32–255	Prism Inserted
33	**Prism 1 Rotation**	0–3	No Rotation
		4–123	Prism Indexing
		124–187	Counter Clockwise Rotation, fast to slow
		188–191	Stop
		192–255	Clockwise Rotation, slow to fast
34	**Prism 2 (Linear)**	0–31	Open (Default 0)
		32–255	Prism Inserted
35	**Prism 2 Rotation**	0–3	No Rotation
		4–123	Prism Indexing
		124–187	Counter Clockwise Rotation, fast to slow
		188–191	Stop
		192–255	Clockwise Rotation, slow to fast
36	**Frost**	0	Open
		1–50	Light Frost 0–100%
		51–53	Light Frost Full
		54–63	Light Frost Pulse Close FX, slow to fast
		64–73	Light Frost Pulse Open FX, fast to slow
		74–83	Light Frost Ramp, fast to slow
		84–86	Open
		87–136	Medium Frost 0–100%

Ch	Function	DMX Value	Setting
		137–139	Medium Frost Full
		140–149	Medium Frost Pulse Close FX, slow to fast
		150–159	Medium Frost Pulse Open FX, fast to slow
		160–169	Medium Frost Ramp, fast to slow
		170–255	Open
37	**Iris**	0	No Effect, default
		1–179	Big to Small
		180–191	Fully Closed
		192–219	Iris Macro 1, Pulse Open, slow to fast
		220–247	Iris Macro 2, Pulse Close, fast to slow
		248–249	Iris Macro 3, Open/Close Pulse, slow to fast
		250–255	(reserved)
38	**Iris Fine (16-Bit)**	0–255	
39	**Zoom**	0–255	Narrow to Wide, Default: 128
40	**Zoom Fine (16-Bit)**	0–255	
41	**Focus**	0–255	
42	**Focus Fine (16-Bit)**	0–255	
43	**Framing Shutter Assembly Rotation**	0–127	Clockwise 0–60°
		128	Center (default)
		129–255	Counter Clockwise 0–60°
44	**Framing Shutter 1 Insertion**	0–255	Outward to Full Inward
45	**Framing Shutter 1 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
46	**Framing Shutter 2 Insertion**	0–255	Outward to Full Inward
47	**Framing Shutter 2 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
48	**Framing Shutter 3 Insertion**	0–255	Outward to Full Inward
49	**Framing Shutter 3 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
50	**Framing Shutter 4 Insertion**	0–255	Outward to Full Inward
51	**Framing Shutter 4 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
52	**Shutter / Strobe**	0–31	Closed
		32–63	Open (Default 32)
		64–95	Strobe, slow to fast
		96–127	Open
		128–143	Pulse Open, slow to fast
		144–159	Pulse Close, fast to slow
		160–191	Open
		192–223	Random Strobe, slow to fast
		224–255	Open
53	**Dimmer**	0–255	
54	**Dimmer Fine (16-bit)**	0–255	

MODE 2 – EXTENDED | 56 CHANNELS

Ch	Function	DMX Value	Setting
1	**Pan**	0–255	
2	**Pan Fine (16-Bit)**	0–255	
3	**Tilt**	0–255	
4	**Tilt Fine (16-Bit)**	0–255	
5	**Pan / Tilt Speed**	0	Standard (default)
		1	Max Speed
		2–255	Pan / Tilt Speed, fast to slow
6	**Control / Reset (hold 3 s)**	0–5	(reserved)
		6–7	Standby Mode: ON
		8–9	Standby Mode: OFF
		10–19	Reserved
		20–24	LCD ON
		25–29	LCD OFF
		30–31	Fans On During Black Out
		32–33	Fans Off During Black Out
		34–39	(reserved)
		40–44	Pan / Tilt Mode: Speed
		45–49	Pan / Tilt Mode: Time
		50–54	Blackout During Movement: ON
		55–59	Blackout During Movement: OFF
		60–64	Blackout During Gobo Transition: ON
		65–69	Blackout During Gobo Transition: OFF
		70–74	Blackout During Color Transition: ON
		75–79	Blackout During Color Transition: OFF
		80–84	Fan Mode: Auto
		85–89	Fan Mode: High
		90–91	Fan Mode: Quiet
		92–94	(reserved)
		95–99	Dimmer Curve: Super Square Law
		100–104	Focus Tracking: ON
		105–109	Focus Tracking: OFF
		110–114	Dimmer Curve: Square Law
		115–119	Dimmer Curve: Linear
		120–124	Parking Position: ON
		125–129	Parking Position: OFF
		130–139	Reset; ALL (excl. Pan/Tilt)
		140–149	Reset; Pan/Tilt
		150–159	Reset; Color System
		160–169	Reset; Gobo/Animation Wheel
		170–179	(reserved)
		180–189	Reset; Zoom/Focus/Frost/Prism
		190–199	Reset; Iris / Framing System
		200–209	Reset; ALL (incl Pan/Tilt.)

Ch	Function	DMX Value	Setting
		210–218	Gobo Indexing: Max Speed + Shortcut Enabled
		221–222	Gobo Indexing: Follow Speed and Direction
		223–224	Gobo Indexing: Max Speed, Follow Direction
		225–255	(reserved)
7	**LED PWM Frequency**	0–4	Open
		5–9	300 Hz
		10–14	600 Hz
		15–19	1200 Hz
		20–24	2400 Hz
		25–255	(reserved)
8	**Reserved**	0–255	(reserved)
9	**Reserved**	0–255	(reserved)
10	**Color Wheel 1**	0–20	Open
		21	Deep Red
		43	Deep Blue
		64	Orange
		86	Green
		107	Congo Blue
		128–129	Open
		130–189	Color Wheel Indexing
		190–215	Clockwise Rotation, fast to slow
		216–217	Stop
		218–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Color Scroll, fast to slow
11	**Color Wheel 1 Index – Fine**	0–255	
12	**Color Wheel 2**	0–20	Open
		21	Color Split
		43	Laser Green
		64	Lavender
		86	CRI Filter 80
		107	CRI Filter 90
		128–129	Open
		130–189	Color Wheel Indexing
		190–215	Clockwise Rotation, fast to slow
		216–217	Stop
		218–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Color Scroll, fast to slow
13	**Color Wheel 2 Index – Fine**	0–255	
14	**Cyan**	0–255	0 white to 255 Full Cyan
15	**Magenta**	0–255	0 white to 255 Full Magenta
16	**Yellow**	0–255	0 white to 255 Full Yellow
17	**CTO**	0–255	0 white to 255 Full CTO
18	**Reserved**	0–255	
19	**Reserved**	0–255	

Ch	Function	DMX Value	Setting
20	**Reserved**	0–255	
21	**Reserved**	0–255	
22	**Reserved**	0–255	
23	**Animation Wheel**	0–19	Open
		20–127	Variable Position into Light Path
		128–255	(reserved)
24	**Animation Wheel Rotation**	0	No Rotation, default
		1–127	Clockwise Rotation, fast to slow
		128	Stop
		129–255	Counter Clockwise Rotation, slow to fast
25	**Animation Wheel Macro FX**	0–7	Open
		8–9	Macro 1
		10–11	Macro 2
		12–13	Macro 3
		14–15	Macro 4
		16–17	Macro 5
		18–19	Macro 6
		20–21	Macro 7
		22–23	Macro 8
		24–25	Macro 9
		26–27	Macro 10
		28–255	(reserved)
26	**Gobo Wheel 1**	*Index Mode – Position set on Channel 28*	
		0–4	Open
		5–8	Gobo 1
		9–13	Gobo 2
		14–17	Gobo 3
		18–22	Gobo 4
		23–26	Gobo 5
		27–31	Gobo 6
		Rotation Mode – Rotation set on Channel 28	
		32–36	Gobo 1
		36–40	Gobo 2
		41–44	Gobo 3
		45–49	Gobo 4
		50–54	Gobo 5
		55–59	Gobo 6
		Gobo Shake Index Mode – Index set on Channel 28	
		60–71	Gobo 1
		72–83	Gobo 2
		84–95	Gobo 3
		96–106	Gobo 4
		107–118	Gobo 5
		119–129	Gobo 6
		Gobo Shake Rotate Mode – Rotation set on Channel 28	

Ch	Function	DMX Value	Setting
		130–141	Gobo 1
		142–153	Gobo 2
		154–165	Gobo 3
		166–176	Gobo 4
		177–188	Gobo 5
		189–199	Gobo 6
		200–201	Open
		202–222	Clockwise Rotation, fast to slow
		223–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Gobo Scroll, fast to slow
27	**Gobo Wheel 1 Position Fine**	0–255	
28	**Gobo 1 Index / Rotation**	*Gobo Index Modes – Set on Channel 26*	
		0–255	Gobo Indexing
		Gobo Rotation Modes – Set on Channel 26	
		0	No Effect, default
		1–127	Clockwise Rotation, fast to slow
		128	Stop
		129–255	Counter Clockwise Rotation, slow to fast
29	**Gobo 1 Index / Rotation Fine**	0–255	
30	**Gobo Wheel 2**	*Index Mode – Position set on Channel 32*	
		0–4	Open
		5–8	Gobo 1
		9–13	Gobo 2
		14–17	Gobo 3
		18–22	Gobo 4
		23–26	Gobo 5
		27–31	Gobo 6
		Rotation Mode – Rotation set on Channel 32	
		32–36	Gobo 1
		36–40	Gobo 2
		41–44	Gobo 3
		45–49	Gobo 4
		50–54	Gobo 5
		55–59	Gobo 6
		Gobo Shake Index Mode – Index set on Channel 32	
		60–71	Gobo 1
		72–83	Gobo 2
		84–95	Gobo 3
		96–106	Gobo 4
		107–118	Gobo 5
		119–129	Gobo 6
		Gobo Shake Rotate Mode – Rotation set on Channel 32	
		130–141	Gobo 1
		142–153	Gobo 2

Ch	Function	DMX Value	Setting
		154–165	Gobo 3
		166–176	Gobo 4
		177–188	Gobo 5
		189–199	Gobo 6
		200–201	Open
		202–222	Clockwise Rotation, fast to slow
		223–243	Counter Clockwise Rotation, slow to fast
		244–249	(reserved)
		250–255	Random Gobo Scroll, fast to slow
31	**Gobo Wheel 2 Position Fine**	0–255	
32	**Gobo 2 Index / Rotation**	*Gobo Index Modes – Set on Channel 30*	
		0–255	Gobo Indexing
		Gobo Rotation Modes – Set on Channel 30	
		0	No Effect, default
		1–127	Clockwise Rotation, fast to slow
		128	Stop
		129–255	Counter Clockwise Rotation, slow to fast
33	**Gobo 2 Index / Rotation Fine**	0–255	
34	**Prism 1 (Circular)**	0–31	Open (Default 0)
		32–255	Prism Inserted
35	**Prism 1 Rotation**	0–3	No Rotation
		4–123	Prism Indexing
		124–187	Counter Clockwise Rotation, fast to slow
		188–191	Stop
		192–255	Clockwise Rotation, slow to fast
36	**Prism 2 (Linear)**	0–31	Open (Default 0)
		32–255	Prism Inserted
37	**Prism 2 Rotation**	0–3	No Rotation
		4–123	Prism Indexing
		124–187	Counter Clockwise Rotation, fast to slow
		188–191	Stop
		192–255	Clockwise Rotation, slow to fast
38	**Frost**	0	Open
		1–50	Light Frost 0–100%
		51–53	Light Frost Full
		54–63	Light Frost Pulse Close FX, slow to fast
		64–73	Light Frost Pulse Open FX, fast to slow
		74–83	Light Frost Ramp, fast to slow
		84–86	Open
		87–136	Medium Frost 0–100%
		137–139	Medium Frost Full
		140–149	Medium Frost Pulse Close FX, slow to fast
		150–159	Medium Frost Pulse Open FX, fast to slow
		160–169	Medium Frost Ramp, fast to slow
		170–255	Open
39	**Iris**	0	No Effect, default

Ch	Function	DMX Value	Setting
		1–179	Big to Small
		180–191	Fully Closed
		192–219	Iris Macro 1, Pulse Open, slow to fast
		220–247	Iris Macro 2, Pulse Close, fast to slow
		248–249	Iris Macro 3, Open/Close Pulse, slow to fast
		250–255	(reserved)
40	**Iris Fine (16-Bit)**	0–255	
41	**Zoom**	0–255	Narrow to Wide, Default: 128
42	**Zoom Fine (16-Bit)**	0–255	
43	**Focus**	0–255	
44	**Focus Fine (16-Bit)**	0–255	
45	**Framing Shutter Assembly Rotation**	0–127	Clockwise 0–60°
		128	Center (default)
		129–255	Counter Clockwise 0–60°
46	**Framing Shutter 1 Insertion**	0–255	Outward to Full Inward
47	**Framing Shutter 1 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
48	**Framing Shutter 2 Insertion**	0–255	Outward to Full Inward
49	**Framing Shutter 2 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
50	**Framing Shutter 3 Insertion**	0–255	Outward to Full Inward
51	**Framing Shutter 3 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
52	**Framing Shutter 4 Insertion**	0–255	Outward to Full Inward
53	**Framing Shutter 4 Swivel**	0–127	-30 Degrees to Center
		128	Center (default)
		129–255	0 to 30 Degrees
54	**Shutter / Strobe**	0–31	Closed
		32–63	Open (Default 32)
		64–95	Strobe, slow to fast
		96–127	Open
		128–143	Pulse Open, slow to fast
		144–159	Pulse Close, fast to slow
		160–191	Open
		192–223	Random Strobe, slow to fast
		224–255	Open
55	**Dimmer**	0–255	
56	**Dimmer Fine (16-bit)**	0–255	