



STORM 1200x

DMX Profile Specification 1.1

Controller Firmware V1.0

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DMX Profile Overview for Aputure OS II

With the release of the Storm 1200X, Aputure is launching OS II. OS II features the same menu structure and experience, and DMX Profile Structure between Aputure products.

Control Channel Profiles

Profiles labeled “+Control” include three extra channels (Strobe, Control, and Fan). These profiles are ideal for users seeking advanced control methods.

OS II introduces DMX profiles with three additional control channels, depending on the product:

1. **Strobe Channel:** Enables strobing in any color.
2. **Control Channel:** Allows remote execution of light setting commands via a dedicated DMX channel.
3. **Fan Channel:** Adjusts the fan speed or behavior if the product is equipped with a fan.

Detailed Breakdown of DMX Channels

Strobe Channel:

The Strobe Channel enables strobe effects in any available color configuration, depending on the fixture's color mixing capabilities.

- **Example – Strobe a 10000K Color**

In **Profile 3**, set CCT (**Channel 2**) to 10,000K / 255. Set Strobe (**Channel 4**) to Rate of 25Hz / 255. The light be at Max Strobe at 10,000K.

Control Channel:

The Control Channel allows remote execution of fixture settings via predefined DMX values. To apply a command, assign the specified value to the Control Channel for 2.5 seconds, then reset it to 0. The fixture will issue a brief confirmation flash (red) upon successful execution.

- **Example – Turning DMX Smoothing Off:**

In **Profile 3**, set Control Channel (**Channel 5**) to **Value 27** for 2.5 seconds, then reset it to 0. The fixture will flash red at 20% brightness to indicate that DMX Smoothing has been disabled.

- **Example – Enabling DMX Smoothing:**

To enable DMX Smoothing in **Profile 3**, set **Channel 5** to **Value 30** for 2.5 seconds, then reset to 0. The red flash at 20% brightness confirms the change.

Control Channel Signal Confirmation:

In cases where the confirmation flash is undesirable, such as when modifying multiple fixtures in enclosed spaces, the Signal Confirmation can be disabled by setting the Control Channel to **Value 15**, then back to 0. By default, the Signal Confirmation is enabled.

Fan Channel:

The Fan Channel allows direct control over fan speed or behavior via DMX. Set a constant value to maintain a specific fan state, and modify the value as needed to adjust fan performance.

In the System settings, the Fan mode must be set to “DMX Controlled”

- **Example – Setting the fan to Max**

In **Profile 3**, set the Fan Channel (**Channel 6**) to **Value 45**. The fan channel must be saved at the value. When changing the value in a cue, it can be used to cut the fan during takes.

No Effect Ranges

In some DMX profiles, you may encounter a "No Effect" range at the beginning of a channel. This range is typically meant for slider boards, ensuring that when the slider is at 0, no effect is applied. These ranges should not be patched into lighting consoles, as they serve only to prevent unintended changes when the control is idle.

Channel	Function	Value	Percent	Description
X	±Green	0 - 255	0 - 100	Minus Green to Plus Green
		0 - 10	0 - 4	No Effect*
		11-20	5 - 8	Full Minus Green
		21 - 119	9 - 47	-99% - -1%
		120 - 145	48 - 57	0% Neutral
		146 - 244	58 - 96	1% - 99%
		245 - 255	97 - 100	Full Plus Green

Mode 1: CCT+ -8Bit (3ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 255	0 - 100	2500K- 10000K	3200K / 24
3	±Green	0 - 255	0 - 100	Minus Green to Plus Green	Neutral / 133
		0 - 10	0 - 4	No Effect*	
		11-20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	0% Neutral	
		146 - 244	58 - 96	1% - 99%	
		245 - 255	97 - 100	Full Plus Green	

*Do not patch "No Effect" range into consoles

Mode 2: CCT+ -16Bit (6ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1 / 2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3 / 4	CCT	0 - 65535	0 - 100	2500K- 10000K	3200K / 6117
5 / 6	±Green	0 - 65535	0 - 100	Minus Green to Plus Green	Neutral / 34079
		0 - 2621	0 - 4	No Effect*	
		2622 - 5243	5- 8	Full Minus Green	
		5244 - 30146	9 - 47	-99% - -1%	
		30147 - 37355	48 - 57	0% Neutral	
		37356 - 62914	58 - 96	1% - 99%	
		62915 - 65535	97 - 100	Full Plus Green	

*Do not patch "No Effect" range into consoles

Mode 3: CCT+ Control -8Bit (6ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 255	0 - 100	2500K- 10000K	3200K / 24
3	±Green	0 - 255	0 - 100	Minus Green to Plus Green	Neutral / 133
		0 - 10	0 - 4	No Effect*	
		11-20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	0% Neutral	
		146 - 244	58 - 96	1% - 99%	
245 - 255	97 - 100	Full Plus Green			
4	Strobe	0 - 19	0 - 7	Off	Off / 0
		20 - 255	8 - 100	1Hz - 25Hz	
5	Control Channel	0 - 255	0-100	See Control Channel Chart	0 / 0
6	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Mode 4: CCT+ Control -16Bit (9ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1 / 2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3 / 4	CCT	0 - 65535	0 - 100	2500K- 10000K	3200K / 6117
5 / 6	±Green	0 - 65535	0 - 100	Minus Green to Plus Green	Neutral / 34079
		0 - 2621	0 - 4	No Effect*	
		2622 - 5243	5 - 8	Full Minus Green	
		5244 - 30146	9 - 47	-99% - -1%	
		30147 - 37355	48 - 57	0% Neutral	
		37356 - 62914	58 - 96	1% - 99%	
		62915 - 65535	97 - 100	Full Plus Green	
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0
8	Control Channel	0 - 255	0-100	See Control Channel Chart	0 / 0
9	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Mode 5: CCT+ Control & FX -8Bit (10ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	CCT	0 - 255	0 - 100	2500K to 10000K	3200K / 24
3	±Green	0 - 255	0 - 100	Minus Green to Plus Green	Neutral / 133
		0 - 10	0 - 4	No Effect*	
		11-20	5 - 8	Full Minus Green	
		21 - 119	9 - 47	-99% - -1%	
		120 - 145	48 - 57	0% Neutral	
		146 - 244	58 - 96	1% - 99%	
		245 - 255	97 - 100	Full Plus Green	
4	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0
5	Control Channel	0 - 255	0-100	SEE CONTROL CHANNEL CHART	0 / 0
6	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	
FX					
7	Crossfade	0-255	0-100%	Crossfade from Static Color to FX	100%
8	Lightning	0 - 9	0 - 4	Loop	
		10 - 69	5 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Explosion	0 - 69	0 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Other Effects	0 - 69	0 - 27	Trigger	
		70 - 225	28 - 100	Stop	
9	Effect Selection	0 - 9	0 - 4	Paparazzi	
		10 - 19	5 - 8	Fireworks	
		20 - 29	9 - 12	Faulty bulb	
		30 - 39	13 - 16	Lightning	

		40 - 49	17 - 20	TV	
		50 - 59	21 - 24	Pulsing	
		60 - 69	25 - 28	Strobe	
		70 - 79	29 - 32	Explosion	
		80 - 89	33 - 36	Fire	
		90 - 255	37 - 100	Reserved	
10	Frequency	0 - 19	0 - 7	1	
		20 - 39	8 - 15	2	
		40 - 59	16 - 23	3	
		60 - 79	24 - 31	4	
		80 - 99	32 - 39	5	
		100 - 119	40 - 47	6	
		120 - 139	48 - 55	7	
		140 - 159	56 - 63	8	
		160 - 179	64 - 71	9	
		180 - 199	72 - 79	10	
		200 - 219	80 - 87	Random	
		220 - 255	88 - 100	Reserved	

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Mode 6: CCT+ Control & FX -16Bit (13ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1 / 2	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
3 / 4	CCT	0 - 255	0 - 100	2500K to 10000K	3200K / 6117
5 / 6	±Green	0 - 65535	0 - 100	Minus Green to Plus Green	Neutral / 34079
		0 - 2621	0 - 4	No Effect*	
		2622 - 5243	5 - 8	Full Minus Green	
		5244 - 30146	9 - 47	-99% - -1%	
		30147 - 37355	48 - 57	0% Neutral	
		37356 - 62914	58 - 96	1% - 99%	
7	Strobe	0 - 19	0 - 7	Off	Off / 0
		20 - 255	8 - 100	1Hz - 25Hz	
8	Control Channel	0 - 255	0-100	SEE CONTROL CHANNEL CHART	0 / 0
9	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	
FX					
10	Crossfade	0-255	0-100%	Crossfade from Static Color to FX	100%
11	Lightning	0 - 9	0 - 4	Loop	
		10 - 69	5 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Explosion	0 - 69	0 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Other Effects	0 - 69	0 - 27	Trigger	
70 - 225		28 - 100	Stop		
12	Effect Selection	0 - 9	0 - 4	Paparazzi	
		10 - 19	5 - 8	Fireworks	
		20 - 29	9 - 12	Faulty bulb	

		30 - 39	13 - 16	Lightning	
		40 - 49	17 - 20	TV	
		50 - 59	21 - 24	Pulsing	
		60 - 69	25 - 28	Strobe	
		70 - 79	29 - 32	Explosion	
		80 - 89	33 - 36	Fire	
		90 - 255	37 - 100	Reserved	
13	Frequency	0 - 19	0 - 7	1	
		20 - 39	8 - 15	2	
		40 - 59	16 - 23	3	
		60 - 79	24 - 31	4	
		80 - 99	32 - 39	5	
		100 - 119	40 - 47	6	
		120 - 139	48 - 55	7	
		140 - 159	56 - 63	8	
		160 - 179	64 - 71	9	
		180 - 199	72 - 79	10	
		200 - 219	80 - 87	Random	
		220 - 255	88 - 100	Reserved	

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Mode 7: xy -8Bit (3ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	x Coordinate	0 - 255	0 - 0.8		3200K (0.4234 / 136)
3	y Coordinate	0 - 255	0 - 0.8		3200K (0.3989 / 125)

The xy range of the light is 0.1550y to 0.6815y and 0.3000x to 0.5500x. The Profile is created out of the 0 to 0.8 range.

Mode 8: xy -16Bit (6ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1 / 2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3 / 4	x Coordinate	0 - 65535	0 - 0.8		3200K (0.4234 / 34684)
5 / 6	y Coordinate	0 - 65535	0 - 0.8		3200K (0.3989 / 32686)

The xy range of the light is 0.1550y to 0.6815y and 0.3000x to 0.5500x. The Profile is created out of the 0 to 0.8 range.

Mode 9: xy Control -8Bit (6ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	x Coordinate	0 - 255	0 - 0.8		3200K (0.4234 / 136)
3	y Coordinate	0 - 255	0 - 0.8		3200K (0.3989 / 125)
4	Strobe	0 - 19	0 - 7	Off	Off / 0
		20 - 255	8 - 100	1Hz - 25Hz	
5	Control Channel	0 - 255	0 - 100	SEE CONTROL CHANNEL CHART	0 / 0
6	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Mode 10: xy Control -16Bit (9ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1 / 2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3 / 4	x Coordinate	0 - 65535	0 - 0.8		3200K (0.4234 / 34684)
5 / 6	y Coordinate	0 - 65535	0 - 0.8		3200K (0.3989 / 32686)
7	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0
8	Control Channel	0 - 255	0-100	SEE CONTROL CHANNEL CHART	0 / 0
9	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Mode 11: xy Control & FX -8Bit (10ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1	Intensity	0 - 255	0 - 100	0 - 100%	0% / 0
2	x Coordinate	0 - 255	0 - 0.8		3200K (0.4234 / 136)
3	y Coordinate	0 - 255	0 - 0.8		3200K (0.3989 / 125)
4	Strobe	0 - 19 20 - 255	0 - 7 8 - 100	Off 1Hz - 25Hz	Off / 0
5	Control Channel	0 - 255	0-100	SEE CONTROL CHANNEL CHART	0 / 0
6	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	
FX					
7	Crossfade	0-255	0-100%	Crossfade from Static Color to FX	100%
8	Lightning	0 - 9	0 - 4	Loop	
		10 - 69	5 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Explosion	0 - 69	0 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Other Effects	0 - 69	0 - 27	Trigger	
		70 - 225	28 - 100	Stop	
9	Effect Selection	0 - 9	0 - 4	Paparazzi	
		10 - 19	5 - 8	Fireworks	
		20 - 29	9 - 12	Faulty bulb	
		30 - 39	13 - 16	Lightning	
		40 - 49	17 - 20	TV	
		50 - 59	21 - 24	Pulsing	
		60 - 69	25 - 28	Strobe	
		70 - 79	29 - 32	Explosion	
		80 - 89	33 - 36	Fire	
		90 - 255	37 - 100	Reserved	
10	Frequency	0 - 19	0 - 7	1	

		20 - 39	8 - 15	2
		40 - 59	16 - 23	3
		60 - 79	24 - 31	4
		80 - 99	32 - 39	5
		100 - 119	40 - 47	6
		120 - 139	48 - 55	7
		140 - 159	56 - 63	8
		160 - 179	64 - 71	9
		180 - 199	72 - 79	10
		200 - 219	80 - 87	Random
		220 - 255	88 - 100	Reserved

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

Mode 12: xy Control & FX -16Bit (13ch)

Channel	Function	Value	Percent	Description	Default % / DMX
1 / 2	Intensity	0 - 65535	0 - 100	0 - 100%	0% / 0
3 / 4	x Coordinate	0 - 65535	0 - 0.8		3200K (0.4234 / 34684)
5 / 6	y Coordinate	0 - 65535	0 - 0.8		3200K (0.3989 / 32686)
7	Strobe	0 - 19	0 - 7	Off	Off / 0
		20 - 255	8 - 100	1Hz - 25Hz	
8	Control Channel	0 - 255	0-100	SEE CONTROL CHANNEL CHART	0 / 0
9	Fan Mode#	0 - 38	0 - 15	Auto/Smart	Auto / 0
		39 - 77	16 - 30	Max	
		78 - 115	31 - 45	Medium	
		116 - 153	46 - 60	Low	
		154 - 191	61 - 75	Delayed	
		192 - 255	76 - 100	Silent	
FX					
10	Lightning	0 - 9	0 - 4	Loop	
		10 - 69	5 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Explosion	0 - 69	0 - 27	Trigger	
		70 - 225	28 - 100	Stop	
	Other Effects	0 - 69	0 - 27	Trigger	
70 - 225		28 - 100	Stop		
11	Effect Selection	0 - 9	0 - 4	Paparazzi	
		10 - 19	5 - 8	Fireworks	
		20 - 29	9 - 12	Faulty bulb	
		30 - 39	13 - 16	Lightning	
		40 - 49	17 - 20	TV	
		50 - 59	21 - 24	Pulsing	
		60 - 69	25 - 28	Strobe	

		70 - 79	29 - 32	Explosion			
		80 - 89	33 - 36	Fire			
		90 - 255	37 - 100	Reserved			
12	Frequency	0 - 19	0 - 7	1			
		20 - 39	8 - 15	2			
		40 - 59	16 - 23	3			
		60 - 79	24 - 31	4			
		80 - 99	32 - 39	5			
		100 - 119	40 - 47	6			
		120 - 139	48 - 55	7			
		140 - 159	56 - 63	8			
		160 - 179	64 - 71	9			
		180 - 199	72 - 79	10			
		200 - 219	80 - 87	Random			
		220 - 255	88 - 100	Reserved			
		13	Crossfade	0-255	0-100%	Crossfade from Static Color to FX	100%

* Do not patch "No Effect" range into consoles

When set to DMX Control In Settings

CCT Quick Chart

CCT	8-bit DMX Value	16-bit DMX Value
2500 K	0	0
3200 K	24	6117
3800 K	44	11360
4300 K	61	15729
4800 K	78	20098
5600 K	106	27088
6500 K	136	34952
7500 K	170	43690
9000 K	221	56797
10000 K	255	66535

DMX Control Channel Chart

The DMX Control Channel of the Profile should be a 0 value and then moved to the specific DMX Value to execute the command. Once executed, the DMX value should be returned to zero.

DMX			FUNCTION	DESCRIPTION	Time to Save
0	-	10	No function	Nothing	2.5 seconds
11	-	13	Signal Flash Enabled	When sending a Control Channel Command, the Light Flashes to confirm received	2.5 seconds
14	-	16	Signal Flash Disabled	When sending a Control Channel Command, the Light will not flash when a command is received.	2.5 seconds
17	-	19	Sidus BT On		2.5 seconds
20	-	22	Sidus BT Off		2.5 seconds
23	-	25	Sidus BT Reset		2.5 seconds
26	-	28	DMX Smoothing: Off	Snap to Intensities	2.5 seconds / Instant On
29	-	31	DMX Smoothing: Smooth	Smooth to Intensities	2.5 seconds / Instant On
32	-	34	DMX Smoothing: Super Smooth	Super Smooth to Intensities	2.5 seconds / Instant On
35	-	37	DMX Smoothing: Feather	Super Smooth from 0-4%, Snaps from 5 to 100%	2.5 seconds / Instant On
38	-	40	CRMX On	Turns wireless CRMX ON	2.5 seconds
41	-	43	CRMX Off	Turns wireless CRMX OFF	2.5 seconds
44	-	46	CRMX Unlink	TX: Unlink all linked fixtures RX: Unlink the fixture from a CRMX transmitter	2.5 seconds
47	-	49	CRMX Link	If set as a CRMX Transmitter, it will send the Link Signal	2.5 seconds

50	-	52	CRMX Mode RX	If set to a CRMX TX, it will change to RX. If it is off, it will remain off.	2.5 seconds
53	-	55	CRMX Mode TX	If set to a CRMX RX, it will change to TX. If it is off, it will remain off.	2.5 seconds
56	-	58	RDM off	Turns off the RDM	2.5 seconds
59	-	61	RDM on	Turns on the RDM	2.5 seconds
62	-	64	High Speed Mode On	if available	2.5 seconds
65	-	67	High Speed Mode Off	if available	2.5 seconds
68	-	70	Constant Output		2.5 seconds
71	-	73	Maximum Output		2.5 seconds
74	-	76	Studio Mode ON		2.5 seconds
77	-	79	Studio Mode OFF		2.5 seconds
80	-	82	Turn On Fan DMX Control Channel		2.5 seconds
83	-	85	Turn Off Fan DMX Control Channel	Sets Fan to Smart	2.5 seconds
86	-	88	N/A		
89	-	91	N/A		
92	-	94	N/A		
95	-	97	N/A		
98	-	100	Dim curve Linear	Dim curve Linear	2.5 seconds
101	-	103	Dim curve Exponential	Dim curve Exponential	2.5 seconds
104	-	106	Dim curve Logarithmic	Dim curve Logarithmic	2.5 seconds
107	-	109	Dim curve S-Curve	Dim curve S-Curve	2.5 seconds
110	-	172	N/A		2.5 seconds
173	-	249	Reserved		2.5 seconds
250	-	252	Turn On Control Channel	Defaults to On	2.5 seconds
253	-	255	Turn off Control Channel	Commands sent on the DMX Control Channel will be ignored.	2.5 seconds