

## Screen Monkey DMX Protocol

### 1 Version 3.6 Channel Listing

<b>Master</b>			
Control	Channel	Function	DMX Range
Display Profile Select	1	DMX Control	0-2
		Profile 1	3-5
		Profile 2	6-8
		Profile 3	9-11
		etc	etc
Display Profile Transition	2	Speed (%)	0-255

<b>Audio Layer</b>			
Control	Channel	Function	DMX Range
Layer Opacity	3	Opacity (%)	0-255
Playback	4	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Page	5	Page Index	0-255
Clip Select	6	Handle Index	0-255
Rate	7,8	0 → 100%	0-255
		100% → 25700%	256-65535

<b>Layer 1</b>			
Control	Channel	Function	DMX Range
Layer Opacity	9	Opacity (%)	0-255
Playback	10	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Page	11	Page Index	0-255
Clip Select	12	Handle Index	0-255
Rate	13,14	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	15,16	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	17,18	-200% → 0%	0-32767

		Centre	32768
		0% → 200%	32769-65535
OffsetY	19,20	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	21,22	0 → 100%	0-65535
Height	23,24	0 → 100%	0-65535
Rotation	25,26	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	27	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17
Brightness	28	-100% - 0%	0-127
		Normal Brightness	128
		0% → 100%	129-255
Contrast	29	-100% - 0%	0-127
		Normal Contrast	128
		0% → 100%	129-255
Red	30	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255
Green	31	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255
Blue	32	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255

<b>Layer 2</b>			
Control	Channel	Function	DMX Range
Layer Opacity	33	Opacity (%)	0-255
Playback	34	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Page	35	Page Index	0-255
Clip Select	36	Handle Index	0-255

Rate	37,38	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	39,40	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	41,42	-200% → 0%	0-32767
		Centre	32768
		0% → 200%	32769-65535
OffsetY	43,44	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	45,46	0 → 100%	0-65535
Height	47,48	0 → 100%	0-65535
Rotation	49,50	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	51	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17
Brightness	52	-100% - 0%	0-127
		Normal Brightness	128
		0% → 100%	129-255
Contrast	53	-100% - 0%	0-127
		Normal Contrast	128
		0% → 100%	129-255
Red	54	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255
Green	55	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255
Blue	56	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255

Layer 3			
Control	Channel	Function	DMX Range
Layer Opacity	57	Opacity (%)	0-255
Playback	58	Clear Layer	0-2

		Play Clip	3-5
		Pause Clip	6-8
Clip Page	59	Page Index	0-255
Clip Select	60	Handle Index	0-255
Rate	61,62	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	63,64	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	65,66	-200% → 0%	0-32767
		Centre	32768
		0% → 200%	32769-65535
OffsetY	67,68	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	69,70	0 → 100%	0-65535
Height	71,72	0 → 100%	0-65535
Rotation	73,74	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	75	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17
Brightness	76	-100% - 0%	0-127
		Normal Brightness	128
		0% → 100%	129-255
Contrast	77	-100% - 0%	0-127
		Normal Contrast	128
		0% → 100%	129-255
Red	78	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255
Green	79	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255
Blue	80	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255

<b>Layer 4</b>			
Control	Channel	Function	DMX Range
Layer Opacity	81	Opacity (%)	0-255
Playback	82	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Page	83	Page Index	0-255
Clip Select	84	Handle Index	0-255
Rate	85,86	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	87,88	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	89,90	-200% → 0%	0-32767
		Centre	32768
		0% → 200%	32769-65535
OffsetY	91,92	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	93,94	0 → 100%	0-65535
Height	95,96	0 → 100%	0-65535
Rotation	97,98	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	99	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17
Brightness	100	-100% - 0%	0-127
		Normal Brightness	128
		0% → 100%	129-255
Contrast	101	-100% - 0%	0-127
		Normal Contrast	128
		0% → 100%	129-255
Red	102	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255

Green	103	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255
Blue	104	-100% - 0%	0-127
		Normal	128
		0% → 100%	129-255

<b>Colour Scheme</b>			
Control	Channel	Function	DMX Range
Enabled	105	Off	0-2
		On	3-5
Background Alpha	106	0 → 100%	0-255
Background Red	107	0 → 100%	0-255
Background Green	108	0 → 100%	0-255
Background Blue	109	0 → 100%	0-255
Colour 1 Alpha	110	0 → 100%	0-255
Colour 1 Red	111	0 → 100%	0-255
Colour 1 Green	112	0 → 100%	0-255
Colour 1 Blue	113	0 → 100%	0-255
Colour 2 Alpha	114	0 → 100%	0-255
Colour 2 Red	115	0 → 100%	0-255
Colour 2 Green	116	0 → 100%	0-255
Colour 2 Blue	117	0 → 100%	0-255
Colour 3 Alpha	118	0 → 100%	0-255
Colour 3 Red	119	0 → 100%	0-255
Colour 3 Green	120	0 → 100%	0-255
Colour 3 Blue	121	0 → 100%	0-255
Colour 4 Alpha	122	0 → 100%	0-255
Colour 4 Red	123	0 → 100%	0-255
Colour 4 Green	124	0 → 100%	0-255

Colour 4 Blue	125	0 → 100%	0-255

## 2 Version 3.5 Channel Listing

<b>Master</b>			
Control	Channel	Function	DMX Range
Display Profile Select	1	DMX Control	0-2
		Profile 1	3-5
		Profile 2	6-8
		Profile 3	9-11
		etc	etc
Display Profile Transition	2	Speed (%)	0-255

<b>Audio Layer</b>			
Control	Channel	Function	DMX Range
Layer Opacity	3	Opacity (%)	0-255
Playback	4	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Select	5,6	Handle Index	0-65535
Rate	7,8	0 → 100%	0-255
		100% → 25700%	256-65535

<b>Layer 1</b>			
Control	Channel	Function	DMX Range
Layer Opacity	9	Opacity (%)	0-255
Playback	10	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Select	11,12	Handle Index	0-65535
Rate	13,14	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	15,16	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	17,18	-200% → 0%	0-32767
		Centre	32768

		0% → 200%	32769-65535
OffsetY	19,20	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	21,22	0 → 100%	0-65535
Height	23,24	0 → 100%	0-65535
Rotation	25,26	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	27	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17

<b>Layer 2</b>			
Control	Channel	Function	DMX Range
Layer Opacity	28	Opacity (%)	0-255
Playback	29	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Select	30,31	Handle Index	0-65535
Rate	32,33	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	34,35	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	36,37	-200% → 0%	0-32767
		Centre	32768
		0% → 200%	32769-65535
OffsetY	38,39	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	40,41	0 → 100%	0-65535
Height	42,43	0 → 100%	0-65535

Rotation	44,45	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	46	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17

<b>Layer 3</b>			
Control	Channel	Function	DMX Range
Layer Opacity	47	Opacity (%)	0-255
Playback	48	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Select	49,50	Handle Index	0-65535
Rate	51,52	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	53,54	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	55,56	-200% → 0%	0-32767
		Centre	32768
		0% → 200%	32769-65535
OffsetY	57,58	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	59,60	0 → 100%	0-65535
Height	61,62	0 → 100%	0-65535
Rotation	63,64	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	65	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17

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<b>Layer 4</b>			
Control	Channel	Function	DMX Range
Layer Opacity	66	Opacity (%)	0-255
Playback	67	Clear Layer	0-2
		Play Clip	3-5
		Pause Clip	6-8
Clip Select	68,69	Handle Index	0-65535
Rate	70,71	0 → 100%	0-255
		100% → 25700%	255-65535
Zoom	72,73	0 → 100%	0-16383
		100% → 400%	16384-65535
OffsetX	74,75	-200% → 0%	0-32767
		Centre	32768
		0% → 200%	32769-65535
OffsetY	76,77	-200% → 0%	0-65535
		Centre	32768
		0% → 200%	32769-65535
Width	78,79	0 → 100%	0-65535
Height	80,81	0 → 100%	0-65535
Rotation	82,83	-180° → 0°	0-32767
		No Rotation	32768
		0° → 180°	32769-65535
Screen	84	Primary	0-2
		Secondary	3-5
		Monitor 3	6-8
		Monitor 4	9-11
		Monitor 5	12-14
		Monitor 6	15-17

<b>Colour Scheme</b>			
Control	Channel	Function	DMX Range
Enabled	85	Off	0-2
		On	3-5
Background Alpha	86	0 → 100%	0-255

Background Red	87	0 → 100%	0-255
Background Green	88	0 → 100%	0-255
Background Blue	89	0 → 100%	0-255
Colour 1 Alpha	90	0 → 100%	0-255
Colour 1 Red	91	0 → 100%	0-255
Colour 1 Green	92	0 → 100%	0-255
Colour 1 Blue	93	0 → 100%	0-255
Colour 2 Alpha	94	0 → 100%	0-255
Colour 2 Red	95	0 → 100%	0-255
Colour 2 Green	96	0 → 100%	0-255
Colour 2 Blue	97	0 → 100%	0-255
Colour 3 Alpha	98	0 → 100%	0-255
Colour 3 Red	99	0 → 100%	0-255
Colour 3 Greed	100	0 → 100%	0-255
Colour 3 Blue	101	0 → 100%	0-255
Colour 4 Alpha	102	0 → 100%	0-255
Colour 4 Red	103	0 → 100%	0-255
Colour 4 Green	104	0 → 100%	0-255
Colour 4 Blue	105	0 → 100%	0-255

### 3 Version 3.4 Channel Listing

<b>Master</b>			
Control	Function	Channel Offset	DMX Range
Display Profile Select	Profile 1	0	0-2
	Profile 2		3-5
	etc		etc
Display Profile Transition	Speed (%)	1	0-255

<b>Layer 1</b>			
Control	Function	Channel Offset	DMX Range
Layer Opacity	Opacity (%)	2	0-255
Playback	Clear Layer	3	0-2
	Play Clip		3-5
	Pause Clip		6-8
Clip Select	Handle Index	4,5	0-65535

<b>Layer 2</b>			
Control	Function	Channel Offset	DMX Range
Layer Opacity	Opacity (%)	6	0-255
Playback	Clear Layer	7	0-2
	Play Clip		3-5
	Pause Clip		6-8
Clip Select	Handle Index	8,9	0-65535

<b>Layer 1</b>			
Control	Function	Channel Offset	DMX Range
Layer Opacity	Opacity (%)	10	0-255
Playback	Clear Layer	11	0-2
	Play Clip		3-5
	Pause Clip		6-8
Clip Select	Handle Index	12,13	0-65535