

# KNV - Mode 1 - RGBW 16bit (CH10)

Mode for use as standard RGBW Fixture

date 2018-07-17  
SW

Number of Channels: 10  
Number of Fixtures per Universe: 51

Channel	Function	Values	Snap/Fade	Default	Remarks
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## Main Fixture

virtual	Dimmer	All Pixel					0-100%
1	Red coarse	All Pixel	0	65535	Fade	0	0-100%
2	Red fine						
3	Green coarse	All Pixel	0	65535	Fade	0	0-100%
4	Green fine						
5	Blue coarse	All Pixel	0	65535	Fade	0	0-100%
6	Blue fine						
7	White coarse	All Pixel	0	65535	Fade	0	0-100%
8	White fine						

9	Shutter	All Pixel	0	4	snap	255	Shutter Closed
			5	39	fade		Sync Ramp-Up (slow > fast)
			40	74	fade		Sync Ramp-Down (slow > fast)
			75	109	fade		Sync Ramp-Up-Down (slow > fast)
			110	144	fade		Random Ramp Up Down (slow > fast)
			145	179	fade		Pixel Flare FX (slow > fast)
			180	214	fade		RandomStrobe (slow > fast)
			215	249	fade		SyncStrobe (slow 1Hz > fast 10Hz)
			250	252	snap		Hyper Speed
			253	255	snap		open

10	CONTROL	0	11			0	Idle
		12	29				
		30	32				
		33	35				
		36	38				
		39	41	snap			Dimm Flash OFF (3s hold) (DEFAULT)
		42	44	snap			Dimm Flash ON (3s hold)
		45	47				
		48	50	snap			Dimming Curve 1 - Gamma 2 (3s Hold) (DEFAULT)
		51	53	snap			Dimming Curve 2 - Linear Dimming (3s hold)
		54	56	snap			(Dimming Curve 3)
		57	59	snap			(Dimming Curve 4)
		60	62				
		63	65				
		66	68	snap			Fan OFF
		69	71	snap			Fan REGULATED (DEFAULT)
		72	74	snap			Fan FIX
		75	77				
		78	80				
		81	83				
		84	86				
		87	89	snap			Display OFF (3s hold)
		90	92	snap			Display ON (3s hold) (DEFAULT)
		93	95	snap			Display Flip OFF (3s hold) (DEFAULT)
		96	98	snap			Display Flip ON (3s hold)
		99	101				
		102	104				
		105	107	snap			DMX Hold OFF = Blackout (3s hold) (DEFAULT)
		108	110	snap			DMX Hold ON (3s hold)
		111	113				
		114	116				
		117	119	snap			Rotation OFF (3s hold) (DEFAULT)

120	122	snap		Rotate 90° (3s hold)
123	125	snap		Rotate 180° (3s hold)
126	128	snap		Rotate 270° (3s hold)
129	131			
132	134			
135	137	snap		<b>Output White Limitation OFF (DEFAULT)</b>
138	140	snap		Output White Limitation 80%
141	143	snap		Output White Limitation 60%
144	146	snap		Output White Limitation 40%
147	149	snap		Output White Limitation 20%
150	152	snap		Output White Limitation 10%
153	155			
156	158			
159	161	snap		<b>Output RGB Limitation OFF (DEFAULT)</b>
162	164	snap		Output RGB Limitation 80%
165	167	snap		Output RGB Limitation 60%
168	170	snap		Output RGB Limitation 40%
171	173	snap		Output RGB Limitation 20%
174	176	snap		Output RGB Limitation 10%
177	179			
180	182			
183	185			
186	188			
189	191			
192	194			
195	197			
198	200			
201	203			
204	206			
207	209			
210	212			
213	215			
216	218			
219	221			
222	224			
225	227			
228	230			
231	233			
234	236			
237	239			
240	242			
243	245			
246	248			
249	251			
252	255			Fixture Reboot (3s hold)

# KNV - Mode 2 - Strobe W with FX + RGB with FX 8bit (CH23)

date 2018-07-17  
SW

Number of Channels: 23  
Number of Fixtures per Universe: 22

Channel	Function	Values	Snap/Fade	Default	Remarks
<b>Main Fixture - Main White Strobe with FX</b>					
1	White - Intensity (Dimmer)	(only White LEDs)	0 255	fade	0 0-100%
2	White - Flash Duration	(only White LEDs)	0 250	fade	0 7 - 650 ms
3	White - Flash Rate / FX Speed	(only White LEDs)	0 1	snap	0 No Flash / Single Flash when Valuechange on CH1 and Dimm
			2 250	fade	Flash is ON
			250 252	snap	0,289 - 16,67 Hz
			253 255	snap	Hyper Speed
4	White - Flare FX	(only White LEDs)	0 9	snap	Continuous on (Blinder)
			10 49	fade	off
			50 59	snap	slow - fast
			60 109	fade	off
			110 119	snap	Random slow - fast
			120 169	fade	off
			170 255	snap	Random pixel slow - fast
					off
5	White - FX Selection	(only White LEDs)	0 2	snap	0 FX Off
			3 5	snap	Sync Strobe - circle mask
			6 8	snap	Sync Strobe - 4 dot mask
			9 11	snap	Sync Strobe - 1 dot mask
			12 14	snap	Random Strobe - all
			15 17	snap	Random Strobe - circle mask
			18 20	snap	Random Strobe - 4 dot mask
			21 23	snap	Random Strobe - 1 dot mask
			24 26	snap	Lite in/out - all
			27 29	snap	Lite in/out - circle mask
			30 32	snap	Lite in/out - 4 dot mask
			33 35	snap	Lite in/out - 1 dot mask
			36 38	snap	Snake
			39 41	snap	Raindrops
			42 44	snap	Random pixel
			45 47	snap	Random fake x 2
			48 50	snap	Random fake x 4
			51 53	snap	Line
			54 56	snap	Double Line
			57 59	snap	Corner to corner line
			60 62	snap	Tilted double lines
			63 65	snap	Tilted double lines in to out
			66 68	snap	Center Line running dot
			69 71	snap	Middle Line running dot
			72 74	snap	Outer Line running dot
			75 77	snap	Corner to corner
			78 80	snap	Arrow
			81 83	snap	Wave
			84 86	snap	Wheel
			87 89	snap	Half Wheel
			90 92	snap	Circling Dot
			93 95	snap	Outer Circle
			96 98	snap	Inner Circle
			99 101	snap	Outer 4 dots
			102 104	snap	Outer single dot
			105 107	snap	Middle single dot
			108 110	snap	Spinning 2x1 dots
			111 113	snap	Asymetric 4 dots
			114 116	snap	Symetric 4 dots
			117 119	snap	Square
			120 122	snap	Inside out
			123 125	snap	Inside out 2
			126 128	snap	Abstract 1
			129 131	snap	Abstract 2
			132 134	snap	Abstract 3
			135 137	snap	Hash Tag
			138 140	snap	Flip flop
			141 143	snap	Jumping slash
			144 146	snap	Jumping 'L'
			147 149	snap	Jumping pins
			150 255	snap	Off - No Strobe or Fx
6	White - FX Crossfade time	(only White LEDs)	0 1	snap	0 OFF
			2 127	fade	Crossfade (fast > slow)
			128 255	fade	Crossfade and Tail (slow > fast)
7	White - Orientation	(only White LEDs)	0 4	snap	0 Off
			5 9	snap	Rotate 90 grd
			10 14	snap	Rotate 180 grd

			15	19	snap		Rotate 270 grd
			20	24	snap		flip horisontel
			25	29	snap		Rotate 90 grd & flip vertical
			30	34	snap		Rotate 180 grd & flip horisontel
			35	39	snap		Rotate 270 grd & flip vertical
			40	44	snap		Off
			45	49	snap		Random Rotate & flip
			50	54	snap		Random position
			55	59	snap		Random position & Rotate 90
			60	64	snap		Random position & Rotate 180
			65	69	snap		Random position & Rotate 270
			70	74	snap		Off
			75	79	snap		Bounce
			80	84	snap		Bounce & rotate 90
			85	89	snap		Bounce & rotate 180
			90	94	snap		Bounce & rotate 270
			95	99	snap		Off
			100	104	snap		Rotate CCW when recived end
			105	109	snap		Rotate CW when recived end
			110	114	snap		Random Rotate when recived end
			115	119	snap		Off
			128	134	snap		Off
			135	139	snap		Rotate 90 grd
			140	144	snap		Rotate 180 grd
			145	149	snap		Rotate 270 grd
			150	154	snap		flip horisontel
			155	159	snap		Rotate 90 grd & flip vertical
			160	164	snap		Rotate 180 grd & flip horisontel
			165	169	snap		Rotate 270 grd & flip vertical
			170	174	snap		Off
			175	179	snap		Random Rotate & flip
			180	184	snap		Random position
			185	189	snap		Random position & Rotate 90
			190	194	snap		Random position & Rotate 180
			195	199	snap		Random position & Rotate 270
			200	204	snap		Off
			205	209	snap		Bounce
			210	214	snap		Bounce & rotate 90
			215	219	snap		Bounce & rotate 180
			220	224	snap		Bounce & rotate 270
			225	229	snap		Off
			230	234	snap		Rotate CCW when recived end
			235	239	snap		Rotate CW when recived end
			240	244	snap		Random Rotate when recived end
			245	249	snap		Off
8	White - FX Offset	(only White LEDs)	0	255	fade	0	0-100%
9	White - FX Lenght	(only White LEDs)	0	255	fade	0	0-100%

#### Subfixture - Background RGB with FX

10	RGB - Intensity (Dimmer)	(only RGB LEDs)	0	255	Fade	0	0-100%
11	RGB - Flash Duration	(only RGB LEDs)	0	250	fade	0	7 - 650 ms
12	RGB - Flash Rate / FX Speed	(only RGB LEDs)	0	1	snap	255	No Flash / Single Flash when Valuechange on CH20 and Dimm Flash is ON
			2	250	fade		0,289 - 16,67 Hz
			250	254	snap		Hyper Speed
			255	255	snap		Continious on (Blinder)
13	Red	(only RGB LEDs)	0	255	Fade	255	0-100%
14	Green	(only RGB LEDs)	0	255	Fade	255	0-100%
15	Blue	(only RGB LEDs)	0	255	Fade	255	0-100%
16	RGB - Flare FX	(only RGB LEDs)	0	9	snap	0	off
			10	49	fade		slow - fast
			50	59	snap		off
			60	109	fade		Random slow - fast
			110	119	snap		off
			120	169	fade		Random pixel slow - fast
			170	255	snap		off
17	RGB - FX Selection	(only RGB LEDs)	0	2	snap	0	Off
			3	5	snap		Sync Strobe - circle mask
			6	8	snap		Sync Strobe - 4 dot mask
			9	11	snap		Sync Strobe - 1 dot mask
			12	14	snap		Random Strobe - all
			15	17	snap		Random Strobe - circle mask
			18	20	snap		Random Strobe - 4 dot mask
			21	23	snap		Random Strobe - 1 dot mask
			24	26	snap		Lite in/out - all
			27	29	snap		Lite in/out - circle mask
			30	32	snap		Lite in/out - 4 dot mask
			33	35	snap		Lite in/out - 1 dot mask
			36	38	snap		Snake
			39	41	snap		Raindrops
			42	44	snap		Random pixel
			45	47	snap		Random fake x 2
			48	50	snap		Random fake x 4
			51	53	snap		Line
			54	56	snap		Double Line
			57	59	snap		Corner to corner line

			60	62	snap		Tilted double lines
			63	65	snap		Tilted double lines in to out
			66	68	snap		Center Line running dot
			69	71	snap		Middle Line running dot
			72	74	snap		Outer Line running dot
			75	77	snap		Corner to corner
			78	80	snap		Arrow
			81	83	snap		Wave
			84	86	snap		Wheel
			87	89	snap		Half Wheel
			90	92	snap		Circling Dot
			93	95	snap		Outer Circle
			96	98	snap		Inner Circle
			99	101	snap		Outer 4 dots
			102	104	snap		Outer single dot
			105	107	snap		Middle single dot
			108	110	snap		Spinning 2x1 dots
			111	113	snap		Asymetric 4 dots
			114	116	snap		Symetric 4 dots
			117	119	snap		Square
			120	122	snap		Inside out
			123	125	snap		Inside out 2
			126	128	snap		Abstract 1
			129	131	snap		Abstract 2
			132	134	snap		Abstract 3
			135	137	snap		Hash Tag
			138	140	snap		Flip flop
			141	143	snap		Jumping slash
			144	146	snap		Jumping 'L'
			147	149	snap		Jumping pins
			150	255	snap		Off - No Strobe or Fx
18	RGB - FX Crossfade time	(only RGB LEDs)	0	1	snap	0	Off
			2	127	fade		Crossfade (fast > slow)
			128	255	fade		Crossfade and Tail (slow > fast)
19	RGB - FX Orientation	(only RGB LEDs)	0	4	snap		Off
			5	9	snap		Rotate 90 grd
			10	14	snap		Rotate 180 grd
			15	19	snap		Rotate 270 grd
			20	24	snap		flip horisontel
			25	29	snap		Rotate 90 grd & flip vertical
			30	34	snap		Rotate 180 grd & flip horisontel
			35	39	snap		Rotate 270 grd & flip vertical
			40	44	snap		Off
			45	49	snap		Random Rotate & flip
			50	54	snap		Random position
			55	59	snap		Random position & Rotate 90
			60	64	snap		Random position & Rotate 180
			65	69	snap		Random position & Rotate 270
			70	74	snap		Off
			75	79	snap		Bounce
			80	84	snap		Bounce & rotate 90
			85	89	snap		Bounce & rotate 180
			90	94	snap		Bounce & rotate 270
			95	99	snap		Off
			100	104	snap		Rotate CCW when recived end
			105	109	snap		Rotate CW when recived end
			110	114	snap		Random Rotate when recived end
			115	119	snap		Off
			128	134	snap		Off
			135	139	snap		Rotate 90 grd
			140	144	snap		Rotate 180 grd
			145	149	snap		Rotate 270 grd
			150	154	snap		flip horisontel
			155	159	snap		Rotate 90 grd & flip vertical
			160	164	snap		Rotate 180 grd & flip horisontel
			165	169	snap		Rotate 270 grd & flip vertical
			170	174	snap		Off
			175	179	snap		Random Rotate & flip
			180	184	snap		Random position
			185	189	snap		Random position & Rotate 90
			190	194	snap		Random position & Rotate 180
			195	199	snap		Random position & Rotate 270
			200	204	snap		Off
			205	209	snap		Bounce
			210	214	snap		Bounce & rotate 90
			215	219	snap		Bounce & rotate 180
			220	224	snap		Bounce & rotate 270
			225	229	snap		Off
			230	234	snap		Rotate CCW when recived end
			235	239	snap		Rotate CW when recived end
			240	244	snap		Random Rotate when recived end
			245	249	snap		Off
20	RGB - FX Offset	(only RGB LEDs)	0	255	fade	0	0-100%
21	RGB - FX Lenght	(only RGB LEDs)	0	255	fade	0	0-100%
22	RGB - FX Colorgenerator	(only RGB LEDs)	0	9	snap	0	Off
			10	19	snap		Random all, RGBCMY
			20	29	snap		Random single pixel, RGBCMY
			30	39	snap		Random all pixel Bright colors

Random single pixel Bright colors
Red / Blue
Red / Green
Blue / Green
Yellow / Magenta
Yellow / Cyan
Cyan / Magenta
Yellow / Blue
Green / Magenta
Red / Green / Blue
Red / Yellow / Blue
Red / Green / Blue / Yellow / Magenta / Cyan
Red / Green / Blue - Horizontal Line
Red / Green / Blue - Vertical Line
Color Scroll, Slow -> Fast
Lite in
Lite out
Off

23	CONTROL	0	11	0	Idle
		12	29		
		30	32		
		33	35		
		36	38		
		39	41	snap	<b>Dimm Flash OFF (3s hold) (DEFAULT)</b>
		42	44	snap	Dimm Flash ON (3s hold)
		45	47		
		48	50	snap	<b>Dimming Curve 1 - Gamma 2 (3s Hold) (DEFAULT)</b>
		51	53	snap	Dimming Curve 2 - Linear Dimming (3s hold)
		54	56	snap	(Dimming Curve 3)
		57	59	snap	(Dimming Curve 4)
		60	62		
		63	65		
		66	68	snap	Fan OFF
		69	71	snap	<b>Fan REGULATED (DEFAULT)</b>
		72	74	snap	Fan FIX
		75	77		
		78	80		
		81	83		
		84	86		
		87	89	snap	Display OFF (3s hold)
		90	92	snap	<b>Display ON (3s hold) (DEFAULT)</b>
		93	95	snap	<b>Display Flip OFF (3s hold) (DEFAULT)</b>
		96	98	snap	Display Flip ON (3s hold)
		99	101		
		102	104		
		105	107	snap	<b>DMX Hold OFF = Blackout (3s hold) (DEFAULT)</b>
		108	110	snap	DMX Hold ON (3s hold)
		111	113		
		114	116		
		117	119	snap	<b>Rotation OFF (3s hold) (DEFAULT)</b>
		120	122	snap	Rotate 90° (3s hold)
		123	125	snap	Rotate 180° (3s hold)
		126	128	snap	Rotate 270° (3s hold)
		129	131		
		132	134		
		135	137	snap	<b>Output White Limitation OFF (DEFAULT)</b>
		138	140	snap	Output White Limitation 80%
		141	143	snap	Output White Limitation 60%
		144	146	snap	Output White Limitation 40%
		147	149	snap	Output White Limitation 20%
		150	152	snap	Output White Limitation 10%
		153	155		
		156	158		
		159	161	snap	<b>Output RGB Limitation OFF (DEFAULT)</b>
		162	164	snap	Output RGB Limitation 80%
		165	167	snap	Output RGB Limitation 60%
		168	170	snap	Output RGB Limitation 40%
		171	173	snap	Output RGB Limitation 20%
		174	176	snap	Output RGB Limitation 10%
		177	179		
		180	182		
		183	185		
		186	188		
		189	191		
		192	194		
		195	197		
		198	200		
		201	203		
		204	206		
		207	209		

210	212			
213	215			
216	218			
219	221			
222	224			
225	227			
228	230			
231	233			
234	236			
237	239			
240	242			
243	245			
246	248			
249	251			
252	255			Fixture Reboot (3s hold)

# KNV - Mode 3 - RGB with FX 8bit + Single Pixel W (CH40)

Mode for use as RGB Strobe (incl. FX-Engine for RGB) with Single-Pixel-Control of the White-LEDs

date 2018-07-17  
SW

Number of Channels: 40  
Number of Fixtures per Universe: 12

Channel	Function		Values		Snap/Fade	Default	Remarks
Mainfixture - RGB with FX							
1	RGB - Intensity (Dimmer)	(only RGB LEDs)	0	255	fade	0	0-100%
2	RGB - Flash Duration	(only RGB LEDs)	0	250	fade	0	7 - 650 ms
3	RGB - Flash Rate / FX Speed	(only RGB LEDs)	0	1	snap	255	No Flash / Single Flash when Valuechange on CH20 and Dimm Flash is ON
			2	250	fade		0,289 - 16,67 Hz
			250	252	snap		Hyper Speed
			253	255	snap		Continuous on (Blinder)
4	Red	(only RGB LEDs)	0	255	Fade	255	0-100%
5	Green	(only RGB LEDs)	0	255	Fade	255	0-100%
6	Blue	(only RGB LEDs)	0	255	Fade	255	0-100%
7	RGB - Flare FX	(only RGB LEDs)	0	9	snap	0	off
			10	49	fade		slow - fast
			50	59	snap		off
			60	109	fade		Random slow - fast
			110	119	snap		off
			120	169	fade		Random pixel slow - fast
			170	255	snap		off
			8	RGB - FX Selection	(only RGB LEDs)		0
3	5	snap	Sync Strobe - circle mask				
6	8	snap	Sync Strobe - 4 dot mask				
9	11	snap	Sync Strobe - 1 dot mask				
12	14	snap	Random Strobe - all				
15	17	snap	Random Strobe - circle mask				
18	20	snap	Random Strobe - 4 dot mask				
21	23	snap	Random Strobe - 1 dot mask				
24	26	snap	Lite in/out - all				
27	29	snap	Lite in/out - circle mask				
30	32	snap	Lite in/out - 4 dot mask				
33	35	snap	Lite in/out - 1 dot mask				
36	38	snap	Snake				
39	41	snap	Raindrops				
42	44	snap	Random pixel				
45	47	snap	Random fake x 2				
48	50	snap	Random fake x 4				
51	53	snap	Line				
54	56	snap	Double Line				
57	59	snap	Corner to corner line				
60	62	snap	Tilted double lines				
63	65	snap	Tilted double lines in to out				
66	68	snap	Center Line running dot				
69	71	snap	Middle Line running dot				
72	74	snap	Outer Line running dot				
75	77	snap	Corner to corner				
78	80	snap	Arrow				
81	83	snap	Wave				
84	86	snap	Wheel				
87	89	snap	Half Wheel				
90	92	snap	Circling Dot				
93	95	snap	Outer Circle				
96	98	snap	Inner Circle				
99	101	snap	Outer 4 dots				
102	104	snap	Outer single dot				
105	107	snap	Middle single dot				
108	110	snap	Spinning 2x1 dots				
111	113	snap	Asymetric 4 dots				
114	116	snap	Symetric 4 dots				
117	119	snap	Square				
120	122	snap	Inside out				
123	125	snap	Inside out 2				
126	128	snap	Abstract 1				
129	131	snap	Abstract 2				
132	134	snap	Abstract 3				
135	137	snap	Hash Tag				
138	140	snap	Flip flop				
141	143	snap	Jumping slash				
144	146	snap	Jumping 'L'				
147	149	snap	Jumping pins				
150	152	snap	Off - No Strobe or Fx				
9	RGB - FX Crossfade time	(only RGB LEDs)	0	1	snap	0	Off
			2	127	fade		Crosfade (fast > slow)
			128	255	fade		Crossfade and Tail (slow > fast)
10	RGB - FX Orientation	(only RGB LEDs)	0	4	snap	0	Off



			5	9	snap			Rotate 90 grd
			10	14	snap			Rotate 180 grd
			15	19	snap			Rotate 270 grd
			20	24	snap			flip horisontel
			25	29	snap			Rotate 90 grd & flip vertical
			30	34	snap			Rotate 180 grd & flip horisontel
			35	39	snap			Rotate 270 grd & flip vertical
			40	44	snap			Off
			45	49	snap			Random Rotate & flip
			50	54	snap			Random position
			55	59	snap			Random position & Rotate 90
			60	64	snap			Random position & Rotate 180
			65	69	snap			Random position & Rotate 270
			70	74	snap			Off
			75	79	snap			Bounce
			80	84	snap			Bounce & rotate 90
			85	89	snap			Bounce & rotate 180
			90	94	snap			Bounce & rotate 270
			95	99	snap			Off
			100	104	snap			Rotate CCW when recived end
			105	109	snap			Rotate CW when recived end
			110	114	snap			Random Rotate when recived end
			115	119	snap			Off
			128	134	snap			Off
			135	139	snap			Rotate 90 grd
			140	144	snap			Rotate 180 grd
			145	149	snap			Rotate 270 grd
			150	154	snap			flip horisontel
			155	159	snap			Rotate 90 grd & flip vertical
			160	164	snap			Rotate 180 grd & flip horisontel
			165	169	snap			Rotate 270 grd & flip vertical
			170	174	snap			Off
			175	179	snap			Random Rotate & flip
			180	184	snap			Random position
			185	189	snap			Random position & Rotate 90
			190	194	snap			Random position & Rotate 180
			195	199	snap			Random position & Rotate 270
			200	204	snap			Off
			205	209	snap			Bounce
			210	214	snap			Bounce & rotate 90
			215	219	snap			Bounce & rotate 180
			220	224	snap			Bounce & rotate 270
			225	229	snap			Off
			230	234	snap			Rotate CCW when recived end
			235	239	snap			Rotate CW when recived end
			240	244	snap			Random Rotate when recived end
			245	249	snap			Off
11	RGB - FX Offset	(only RGB LEDs)	0	255	fade	0	0-100%	
12	RGB - FX Lenght	(only RGB LEDs)	0	255	fade	0	0-100%	
13	RGB - FX Colorgenerator	(only RGB LEDs)	0	9	snap	0	Off	
			10	19	snap		Random all, RGBCMY	
			20	29	snap		Random single pixel, RGBCMY	
			30	39	snap		Random all pixel Bright colors	
			40	49	snap		Random single pixel Bright colors	
			50	59	snap		Red / Blue	
			60	69	snap		Red / Green	
			70	79	snap		Blue / Green	
			80	89	snap		Yellow / Magenta	
			90	99	snap		Yellow / Cyan	
			100	109	snap		Cyan / Magenta	
			110	119	snap		Yellow / Blue	
			120	129	snap		Green / Magenta	
			130	139	snap		Red / Green / Blue	
			140	149	snap		Red / Yellow / Blue	
			150	159	snap		Red / Green / Blue / Yellow / Magenta / Cyan	
			160	169	snap		Red / Green / Blue - Horisontel Line	
			170	179	snap		Red / Green / Blue - Vertical Line	
			180	189	snap			
			190	199	snap			
			200	209	snap			
			210	219	snap			
			220	229	fade		Color Scroll, Slow -> Fast	
			230	239	snap		Lite in	
			240	249	snap		Lite out	
			250	255	snap		Off	

#### Sub Fixture - 25x White Pixel

14	White - (Dimmer)	Pixel 01	0	255	fade	0	
15	White - (Dimmer)	Pixel 02	0	255	fade	0	
16	White - (Dimmer)	Pixel 03	0	255	fade	0	
17	White - (Dimmer)	Pixel 04	0	255	fade	0	
18	White - (Dimmer)	Pixel 05	0	255	fade	0	
19	White - (Dimmer)	Pixel 06	0	255	fade	0	
20	White - (Dimmer)	Pixel 07	0	255	fade	0	
21	White - (Dimmer)	Pixel 08	0	255	fade	0	
22	White - (Dimmer)	Pixel 09	0	255	fade	0	

39	Shutter	ONLY WHITE PIXEL	0	4	snap	255	Shutter Closed
			5	39	fade		Sync Ramp-Up (slow > fast)
			40	74	fade		Sync Ramp-Down (slow > fast)
			75	109	fade		Sync Ramp-Up-Down (slow > fast)
			110	144	fade		Random Ramp Up Down (slow > fast)
			145	179	fade		Pixel Flare FX (slow > fast)
			180	214	fade		RandomStrobe (slow > fast)
			215	249	fade		SyncStrobe (slow 1Hz > fast 10Hz)
			250	252	snap		Hyper Speed
			253	255	snap		<b>open</b>

40	CONTROL	0	11	0	Idle
		12	29		
		30	32		
		33	35		
		36	38		
		39	41	snap	<b>Dimm Flash OFF (3s hold) (DEFAULT)</b>
		42	44	snap	Dimm Flash ON (3s hold)
		45	47		
		48	50	snap	<b>Dimming Curve 1 - Gamma 2 (3s Hold) (DEFAULT)</b>
		51	53	snap	Dimming Curve 2 - Liniear Dimming (3s hold)
		54	56	snap	(Dimming Curve 3)
		57	59	snap	(Dimming Curve 4)
		60	62		
		63	65		
		66	68	snap	Fan OFF
		69	71	snap	<b>Fan REGULATED (DEFAULT)</b>
		72	74	snap	Fan FIX
		75	77		
		78	80		
		81	83		
		84	86		
		87	89	snap	Display OFF (3s hold)
		90	92	snap	<b>Display ON (3s hold) (DEFAULT)</b>
		93	95	snap	<b>Display Flip OFF (3s hold) (DEFAULT)</b>
		96	98	snap	Display Flip ON (3s hold)
		99	101		
		102	104		
		105	107	snap	<b>DMX Hold OFF = Blackout (3s hold) (DEFAULT)</b>
		108	110	snap	DMX Hold ON (3s hold)
		111	113		
		114	116		
		117	119	snap	<b>Rotation OFF (3s hold) (DEFAULT)</b>
		120	122	snap	Rotate 90° (3s hold)
		123	125	snap	Rotate 180° (3s hold)
		126	128	snap	Rotate 270° (3s hold)
		129	131		
		132	134		
		135	137	snap	<b>Output White Limitation OFF (DEFAULT)</b>
		138	140	snap	Output White Limitation 80%
		141	143	snap	Output White Limitation 60%
		144	146	snap	Output White Limitation 40%
		147	149	snap	Output White Limitation 20%
		150	152	snap	Output White Limitation 10%
		153	155		
		156	158		
		159	161	snap	<b>Output RGB Limitation OFF (DEFAULT)</b>
		162	164	snap	Output RGB Limitation 80%
		165	167	snap	Output RGB Limitation 60%
		168	170	snap	Output RGB Limitation 40%
		171	173	snap	Output RGB Limitation 20%
		174	176	snap	Output RGB Limitation 10%
		177	179		
		180	182		
		183	185		
		186	188		
		189	191		
		192	194		
		195	197		
		198	200		
		201	203		

204	206			
207	209			
210	212			
213	215			
216	218			
219	221			
222	224			
225	227			
228	230			
231	233			
234	236			
237	239			
240	242			
243	245			
246	248			
249	251			
252	255			Fixture Reboot (3s hold)

## KNV - Mode 4 - Strobe W with FX + RGB SinglePix 8bit (CH86)

Mode for use as standard white Strobe (incl. FX-Engine for White) and Background Single Pixel Control RGB for Pixel Mapping

date 2018-07-17  
SW

Number of Channels: 86  
Number of Fixtures per Universe: 5

Channel	Function		Values	Snap/Fade	Default	Remarks	
Main Fixture - Main White Strobe with FX							
1	White - Intensity (Dimmer)	(only White LEDs)	0	255	fade	0	0-100%
2	White - Flash Duration	(only White LEDs)	0	250	fade	0	7 - 650 ms
3	White - Flash Rate / FX Speed	(only White LEDs)	0	1	snap	0	No Flash / Single Flash when Valuechange on CH1 and Dimm Flash is ON
			2	250	fade		0,289 - 16,67 Hz
			250	252	snap		Hyper Speed
			253	255	snap		Continuous on
4	White - Flare FX	(only White LEDs)	0	9	snap	0	off
			10	49	fade		slow - fast
			50	59	snap		off
			60	109	fade		Random slow - fast
			110	119	snap		off
			120	169	fade		Random pixel slow - fast
5	White - FX Selection	(only White LEDs)	0	2	snap	0	off
			3	5	snap		Off
			6	8	snap		Sync Strobe - circle mask
			9	11	snap		Sync Strobe - 4 dot mask
			12	14	snap		Sync Strobe - 1 dot mask
			15	17	snap		Random Strobe - all
			18	20	snap		Random Strobe - circle mask
			21	23	snap		Random Strobe - 4 dot mask
			24	26	snap		Random Strobe - 1 dot mask
			27	29	snap		Lite in/out - all
			30	32	snap		Lite in/out - circle mask
			33	35	snap		Lite in/out - 4 dot mask
			36	38	snap		Lite in/out - 1 dot mask
			39	41	snap		Snake
			42	44	snap		Raindrops
			45	47	snap		Random pixel
			48	50	snap		Random fake x 2
			51	53	snap		Random fake x 4
			54	56	snap		Line
			57	59	snap		Double Line
			60	62	snap		Corner to corner line
			63	65	snap		Tilted double lines
			66	68	snap		Tilted double lines in to out
			69	71	snap		Center Line running dot
			72	74	snap		Middle Line running dot
			75	77	snap		Outer Line running dot
			78	80	snap		Corner to corner
			81	83	snap		Arrow
			84	86	snap		Wave
			87	89	snap		Wheel
			90	92	snap		Half Wheel
			93	95	snap		Circling Dot
			96	98	snap		Outer Circle
			99	101	snap		Inner Circle
			102	104	snap		Outer 4 dots
			105	107	snap		Outer single dot
			108	110	snap		Middle single dot
			111	113	snap		Spinning 2x1 dots
			114	116	snap		Asymetric 4 dots
			117	119	snap		Symetric 4 dots
			120	122	snap		Square
			123	125	snap		Inside out
			126	128	snap		Inside out 2
			129	131	snap		Abstract 1
132	134	snap	Abstract 2				
135	137	snap	Abstract 3				
138	140	snap	Hash Tag				
141	143	snap	Flip flop				
144	146	snap	Jumping slash				
147	149	snap	Jumping 'L'				
150	152	snap	Jumping pins				
6	White - FX Crossfade time	(only White LEDs)	0	1	snap	0	Off
			2	127	fade		Crossfade (fast > slow)
			128	255	fade		Crossfade and Tail (slow > fast)
7	White - Orientation	(only White LEDs)	0	4	snap	0	Off
			5	9	snap		Rotate 90 grd
			10	14	snap		Rotate 180 grd

			15	19	snap		Rotate 270 grd
			20	24	snap		flip horisontel
			25	29	snap		Rotate 90 grd & flip vertical
			30	34	snap		Rotate 180 grd & flip horisontel
			35	39	snap		Rotate 270 grd & flip vertical
			40	44	snap		Off
			45	49	snap		Random Rotate & flip
			50	54	snap		Random position
			55	59	snap		Random position & Rotate 90
			60	64	snap		Random position & Rotate 180
			65	69	snap		Random position & Rotate 270
			70	74	snap		Off
			75	79	snap		Bounce
			80	84	snap		Bounce & rotate 90
			85	89	snap		Bounce & rotate 180
			90	94	snap		Bounce & rotate 270
			95	99	snap		Off
			100	104	snap		Rotate CCW when recived end
			105	109	snap		Rotate CW when recived end
			110	114	snap		Random Rotate when recived end
			115	119	snap		Off
			128	134	snap		Off
			135	139	snap		Rotate 90 grd
			140	144	snap		Rotate 180 grd
			145	149	snap		Rotate 270 grd
			150	154	snap		flip horisontel
			155	159	snap		Rotate 90 grd & flip vertical
			160	164	snap		Rotate 180 grd & flip horisontel
			165	169	snap		Rotate 270 grd & flip vertical
			170	174	snap		Off
			175	179	snap		Random Rotate & flip
			180	184	snap		Random position
			185	189	snap		Random position & Rotate 90
			190	194	snap		Random position & Rotate 180
			195	199	snap		Random position & Rotate 270
			200	204	snap		Off
			205	209	snap		Bounce
			210	214	snap		Bounce & rotate 90
			215	219	snap		Bounce & rotate 180
			220	224	snap		Bounce & rotate 270
			225	229	snap		Off
			230	234	snap		Rotate CCW when recived end
			235	239	snap		Rotate CW when recived end
			240	244	snap		Random Rotate when recived end
			245	249	snap		Off
8	White - FX Offset	(only White LEDs)	0	255	fade	0	0-100%
9	White - FX Lenght	(only White LEDs)	0	255	fade	0	0-100%

#### Subfixture 01 - RGB - Pixel 01

	virtual Dimmer	Pixel 01					
10	Red	Pixel 01	0	255	Fade	255	0-100%
11	Green	Pixel 01	0	255	Fade	255	0-100%
12	Blue	Pixel 01	0	255	Fade	255	0-100%

#### Subfixture 02 - RGB - Pixel 02

	virtual Dimmer	Pixel 02					
13	Red	Pixel 02	0	255	Fade	255	0-100%
14	Green	Pixel 02	0	255	Fade	255	0-100%
15	Blue	Pixel 02	0	255	Fade	255	0-100%

#### Subfixture 03 - RGB - Pixel 03

	virtual Dimmer	Pixel 03					
16	Red	Pixel 03	0	255	Fade	255	0-100%
17	Green	Pixel 03	0	255	Fade	255	0-100%
18	Blue	Pixel 03	0	255	Fade	255	0-100%

#### Subfixture 04 - RGB - Pixel 04

	virtual Dimmer	Pixel 04					
19	Red	Pixel 04	0	255	Fade	255	0-100%
20	Green	Pixel 04	0	255	Fade	255	0-100%
21	Blue	Pixel 04	0	255	Fade	255	0-100%

#### Subfixture 05 - RGB - Pixel 05

	virtual Dimmer	Pixel 05					
22	Red	Pixel 05	0	255	Fade	255	0-100%
23	Green	Pixel 05	0	255	Fade	255	0-100%
24	Blue	Pixel 05	0	255	Fade	255	0-100%

#### Subfixture 06 - RGB - Pixel 06

	virtual Dimmer	Pixel 06					
25	Red	Pixel 06	0	255	Fade	255	0-100%

26	Green	Pixel 06	0	255	Fade	255	0-100%
27	Blue	Pixel 06	0	255	Fade	255	0-100%

#### Subfixture 07 - RGB - Pixel 07

	virtual Dimmer	Pixel 07					
28	Red	Pixel 07	0	255	Fade	255	0-100%
29	Green	Pixel 07	0	255	Fade	255	0-100%
30	Blue	Pixel 07	0	255	Fade	255	0-100%

#### Subfixture 08 - RGB - Pixel 08

	virtual Dimmer	Pixel 08					
31	Red	Pixel 08	0	255	Fade	255	0-100%
32	Green	Pixel 08	0	255	Fade	255	0-100%
33	Blue	Pixel 08	0	255	Fade	255	0-100%

#### Subfixture 09 - RGB - Pixel 09

	virtual Dimmer	Pixel 09					
34	Red	Pixel 09	0	255	Fade	255	0-100%
35	Green	Pixel 09	0	255	Fade	255	0-100%
36	Blue	Pixel 09	0	255	Fade	255	0-100%

#### Subfixture 10 - RGB - Pixel 10

	virtual Dimmer	Pixel 10					
37	Red	Pixel 10	0	255	Fade	255	0-100%
38	Green	Pixel 10	0	255	Fade	255	0-100%
39	Blue	Pixel 10	0	255	Fade	255	0-100%

#### Subfixture 11 - RGB - Pixel 11

	virtual Dimmer	Pixel 11					
40	Red	Pixel 11	0	255	Fade	255	0-100%
41	Green	Pixel 11	0	255	Fade	255	0-100%
42	Blue	Pixel 11	0	255	Fade	255	0-100%

#### Subfixture 12 - RG - Pixel 12

	virtual Dimmer	Pixel 12					
43	Red	Pixel 12	0	255	Fade	255	0-100%
44	Green	Pixel 12	0	255	Fade	255	0-100%
45	Blue	Pixel 12	0	255	Fade	255	0-100%

#### Subfixture 13 - RGB - Pixel 13

	virtual Dimmer	Pixel 13					
46	Red	Pixel 13	0	255	Fade	255	0-100%
47	Green	Pixel 13	0	255	Fade	255	0-100%
48	Blue	Pixel 13	0	255	Fade	255	0-100%

#### Subfixture 14 - RGB - Pixel 14

	virtual Dimmer	Pixel 14					
49	Red	Pixel 14	0	255	Fade	255	0-100%
50	Green	Pixel 14	0	255	Fade	255	0-100%
51	Blue	Pixel 14	0	255	Fade	255	0-100%

#### Subfixture 15 - RGB - Pixel 15

	virtual Dimmer	Pixel 15					
52	Red	Pixel 15	0	255	Fade	255	0-100%
53	Green	Pixel 15	0	255	Fade	255	0-100%
54	Blue	Pixel 15	0	255	Fade	255	0-100%

#### Subfixture 16 - RGB - Pixel 16

	virtual Dimmer	Pixel 16					
55	Red	Pixel 16	0	255	Fade	255	0-100%
56	Green	Pixel 16	0	255	Fade	255	0-100%
57	Blue	Pixel 16	0	255	Fade	255	0-100%

#### Subfixture 17 - RGB - Pixel 17

	virtual Dimmer	Pixel 17					
58	Red	Pixel 17	0	255	Fade	255	0-100%
59	Green	Pixel 17	0	255	Fade	255	0-100%
60	Blue	Pixel 17	0	255	Fade	255	0-100%

#### Subfixture 18 - RGB - Pixel 18

	virtual Dimmer	Pixel 18					
61	Red	Pixel 18	0	255	Fade	255	0-100%
62	Green	Pixel 18	0	255	Fade	255	0-100%
63	Blue	Pixel 18	0	255	Fade	255	0-100%

**Subfixture 19 - RGB - Pixel 19**

	virtual Dimmer	Pixel 19					
64	Red	Pixel 19	0	255	Fade	255	0-100%
65	Green	Pixel 19	0	255	Fade	255	0-100%
66	Blue	Pixel 19	0	255	Fade	255	0-100%

**Subfixture 20 - RGB - Pixel 20**

	virtual Dimmer	Pixel 20					
67	Red	Pixel 20	0	255	Fade	255	0-100%
68	Green	Pixel 20	0	255	Fade	255	0-100%
69	Blue	Pixel 20	0	255	Fade	255	0-100%

**Subfixture 21 - RGB - Pixel 21**

	virtual Dimmer	Pixel 21					
70	Red	Pixel 21	0	255	Fade	255	0-100%
71	Green	Pixel 21	0	255	Fade	255	0-100%
72	Blue	Pixel 21	0	255	Fade	255	0-100%

**Subfixture 22 - RGB - Pixel 22**

	virtual Dimmer	Pixel 22					
73	Red	Pixel 22	0	255	Fade	255	0-100%
74	Green	Pixel 22	0	255	Fade	255	0-100%
75	Blue	Pixel 22	0	255	Fade	255	0-100%

**Subfixture 23 - RGB - Pixel 23**

	virtual Dimmer	Pixel 23					
76	Red	Pixel 23	0	255	Fade	255	0-100%
77	Green	Pixel 23	0	255	Fade	255	0-100%
78	Blue	Pixel 23	0	255	Fade	255	0-100%

**Subfixture 24 - RGB - Pixel 24**

	virtual Dimmer	Pixel 24					
79	Red	Pixel 24	0	255	Fade	255	0-100%
80	Green	Pixel 24	0	255	Fade	255	0-100%
81	Blue	Pixel 24	0	255	Fade	255	0-100%

**Subfixture 25 - RGB - Pixel 25**

	virtual Dimmer	Pixel 25					
82	Red	Pixel 25	0	255	Fade	255	0-100%
83	Green	Pixel 25	0	255	Fade	255	0-100%
84	Blue	Pixel 25	0	255	Fade	255	0-100%

85	Shutter	ONLY RGB PIXEL	0	4	snap	255	Shutter Closed
			5	39	fade		Sync Ramp-Up (slow > fast)
			40	74	fade		Sync Ramp-Down (slow > fast)
			75	109	fade		Sync Ramp-Up-Down (slow > fast)
			110	144	fade		Random Ramp Up Down (slow > fast)
			145	179	fade		Pixel Flare FX (slow > fast)
			180	214	fade		RandomStrobe (slow > fast)
			215	249	fade		SyncStrobe (slow 1Hz > fast 10Hz)
			250	252	snap		Hyper Speed
			253	255	snap		<b>open</b>

**Main Fixture**

86	CONTROL	0	11			0	Idle
		12	29				
		30	32				
		33	35				
		36	38				
		39	41	snap			<b>Dimm Flash OFF (3s hold) (DEFAULT)</b>
		42	44	snap			Dimm Flash ON (3s hold)
		45	47				
		48	50	snap			<b>Dimming Curve 1 - Gamma 2 (3s Hold) (DEFAULT)</b>
		51	53	snap			Dimming Curve 2 - Linear Dimming (3s hold)
		54	56	snap			(Dimming Curve 3)
		57	59	snap			(Dimming Curve 4)
		60	62				
		63	65				
		66	68	snap			Fan OFF
		69	71	snap			<b>Fan REGULATED (DEFAULT)</b>
		72	74	snap			Fan FIX
		75	77				
		78	80				
		81	83				
		84	86				
		87	89	snap			Display OFF (3s hold)
		90	92	snap			<b>Display ON (3s hold) (DEFAULT)</b>
		93	95	snap			<b>Display Flip OFF (3s hold) (DEFAULT)</b>
		96	98	snap			Display Flip ON (3s hold)

99	101			
102	104			
105	107	snap		<b>DMX Hold OFF = Blackout (3s hold) (DEFAULT)</b>
108	110	snap		DMX Hold ON (3s hold)
111	113			
114	116			
117	119	snap		<b>Rotation OFF (3s hold) (DEFAULT)</b>
120	122	snap		Rotate 90° (3s hold)
123	125	snap		Rotate 180° (3s hold)
126	128	snap		Rotate 270° (3s hold)
129	131			
132	134			
135	137	snap		<b>Output White Limitation OFF (DEFAULT)</b>
138	140	snap		Output White Limitation 80%
141	143	snap		Output White Limitation 60%
144	146	snap		Output White Limitation 40%
147	149	snap		Output White Limitation 20%
150	152	snap		Output White Limitation 10%
153	155			
156	158			
159	161	snap		<b>Output RGB Limitation OFF (DEFAULT)</b>
162	164	snap		Output RGB Limitation 80%
165	167	snap		Output RGB Limitation 60%
168	170	snap		Output RGB Limitation 40%
171	173	snap		Output RGB Limitation 20%
174	176	snap		Output RGB Limitation 10%
177	179			
180	182			
183	185			
186	188			
189	191			
192	194			
195	197			
198	200			
201	203			
204	206			
207	209			
210	212			
213	215			
216	218			
219	221			
222	224			
225	227			
228	230			
231	233			
234	236			
237	239			
240	242			
243	245			
246	248			
249	251			
252	255			Fixture Reboot (3s hold)



## KNV - Mode 5 - Multi Layer 8bit (CH35)

Mode with a RGBW-Background-Layer and 2 Top-Layer on top of it ( Toplayer incl. Strobe-Channels and FX-Engine for RGBW)

date 2018-07-17  
SW

Number of Channels: 35  
Number of Fixtures per Universe: 14

Channel	Function	Values	Snap/Fade	Default	Remarks
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### Main Fixture - Background Layer (low Priority)

virtual	Intensity			fade	0	0-100%
1	Red	0	255	fade	255	0-100%
2	Green	0	255	fade	255	0-100%
3	Blue	0	255	fade	255	0-100%
4	White	0	255	fade	255	0-100%

### Subfixture 1 - Toplayer 1 (middle Priority / True Color)

5	Layer 1 Master	Layer 01	0	1	snap	0	Layer 1 transparent
6			2	65535	fade		0-100%
7	Flash Duration	Layer 01	0	250	fade	0	7 - 650 ms
8	Flash Rate / FX Speed	Layer 01	0	1	snap	255	No Flash / Single Flash when Valuechange on CH5 and Dimm Flash
			2	250	fade		0,289 - 16,67 Hz
			250	252	snap		Hyper Speed
			253	255	snap		Continuous on (Blinder)
9	Flare FX	Layer 01	0	9	snap	0	off
			10	49	fade		slow - fast
			50	59	snap		off
			60	109	fade		Random slow - fast
			110	119	snap		off
			120	169	fade		Random pixel slow - fast
			170	255	snap		off
10	Red	Layer 01	0	255	Fade	255	0-100%
11	Green	Layer 01	0	255	Fade	255	0-100%
12	Blue	Layer 01	0	255	Fade	255	0-100%
13	White	Layer 01	0	255	Fade	255	0-100%
14	FX Selection	Layer 01	0	2	snap	0	Off
			3	5	snap		Sync Strobe - circle mask
			6	8	snap		Sync Strobe - 4 dot mask
			9	11	snap		Sync Strobe - 1 dot mask
			12	14	snap		Random Strobe - all
			15	17	snap		Random Strobe - circle mask
			18	20	snap		Random Strobe - 4 dot mask
			21	23	snap		Random Strobe - 1 dot mask
			24	26	snap		Lite in/out - all
			27	29	snap		Lite in/out - circle mask
			30	32	snap		Lite in/out - 4 dot mask
			33	35	snap		Lite in/out - 1 dot mask
			36	38	snap		Snake
			39	41	snap		Raindrops
			42	44	snap		Random pixel
			45	47	snap		Random fake x 2
			48	50	snap		Random fake x 4
			51	53	snap		Line
			54	56	snap		Double Line
			57	59	snap		Corner to corner line
			60	62	snap		Tilted double lines
			63	65	snap		Tilted double lines in to out
			66	68	snap		Center Line running dot
			69	71	snap		Middle Line running dot
			72	74	snap		Outer Line running dot
			75	77	snap		Corner to corner
			78	80	snap		Arrow
			81	83	snap		Wave
			84	86	snap		Wheel
			87	89	snap		Half Wheel
			90	92	snap		Circling Dot
			93	95	snap		Outer Circle
			96	98	snap		Inner Circle
			99	101	snap		Outer 4 dots
			102	104	snap		Outer single dot
			105	107	snap		Middle single dot
			108	110	snap		Spinning 2x1 dots
			111	113	snap		Asymetric 4 dots
			114	116	snap		Symetric 4 dots
			117	119	snap		Square
			120	122	snap		Inside out

			123	125	snap		Inside out 2
			126	128	snap		Abstract 1
			129	131	snap		Abstract 2
			132	134	snap		Abstract 3
			135	137	snap		Hash Tag
			138	140	snap		Flip flop
			141	143	snap		Jumping slash
			144	146	snap		Jumping 'L'
			147	149	snap		Jumping pins
			150	152	snap		Off - No Strobe or Fx
			153	155	snap		Off - No Strobe or Fx
			156	255	snap		Pattern mapping
15	FX Crossfade Timing	Layer 01	0	1	snap	0	Off
			2	127	fade		Crossfade (fast > slow)
			128	255	fade		Crossfade and Tail (slow > fast)
16	FX Orientation	Layer 01	0	4	snap		Off
			5	9	snap		Rotate 90 grd
			10	14	snap		Rotate 180 grd
			15	19	snap		Rotate 270 grd
			20	24	snap		flip horisontel
			25	29	snap		Rotate 90 grd & flip vertical
			30	34	snap		Rotate 180 grd & flip horisontel
			35	39	snap		Rotate 270 grd & flip vertical
			40	44	snap		Off
			45	49	snap		Random Rotate & flip
			50	54	snap		Random position
			55	59	snap		Random position & Rotate 90
			60	64	snap		Random position & Rotate 180
			65	69	snap		Random position & Rotate 270
			70	74	snap		Off
			75	79	snap		Bounce
			80	84	snap		Bounce & rotate 90
			85	89	snap		Bounce & rotate 180
			90	94	snap		Bounce & rotate 270
			95	99	snap		Off
			100	104	snap		Rotate CCW when recived end
			105	109	snap		Rotate CW when recived end
			110	114	snap		Random Rotate when recived end
			115	119	snap		Off
			128	134	snap		Off
			135	139	snap		Rotate 90 grd
			140	144	snap		Rotate 180 grd
			145	149	snap		Rotate 270 grd
			150	154	snap		flip horisontel
			155	159	snap		Rotate 90 grd & flip vertical
			160	164	snap		Rotate 180 grd & flip horisontel
			165	169	snap		Rotate 270 grd & flip vertical
			170	174	snap		Off
			175	179	snap		Random Rotate & flip
			180	184	snap		Random position
			185	189	snap		Random position & Rotate 90
			190	194	snap		Random position & Rotate 180
			195	199	snap		Random position & Rotate 270
			200	204	snap		Off
			205	209	snap		Bounce
			210	214	snap		Bounce & rotate 90
			215	219	snap		Bounce & rotate 180
			220	224	snap		Bounce & rotate 270
			225	229	snap		Off
			230	234	snap		Rotate CCW when recived end
			235	239	snap		Rotate CW when recived end
			240	244	snap		Random Rotate when recived end
			245	249	snap		Off
17	FX Offset	Layer 01	0	255	fade	0	0-100%
18	FX Lenght	Layer 01	0	255	fade	0	0-100%
19	FX Colorgenerator	Layer 01	0	9	snap	0	Off
			10	19	snap		Random all, Red / Green / Blue / Yellow / Magenta / Cyan
			20	29	snap		Random single pixel, Red / Green / Blue / Yellow / Magenta / Cyan
			30	39	snap		Random all pixel Bright colors
			40	49	snap		Random single pixel Bright colors
			50	59	snap		Red / Blue
			60	69	snap		Red / Green
			70	79	snap		Blue / Green
			80	89	snap		Yellow / Magenta
			90	99	snap		Yellow / Cyan
			100	109	snap		Cyan / Magenta
			110	119	snap		Yellow / Blue
			120	129	snap		Green / Magenta
			130	139	snap		Red / Green / Blue
			140	149	snap		Red / Yellow / Blue
			150	159	snap		
			160	169	snap		Red / Green / Blue - Horisontel Line
			170	179	snap		Red / Green / Blue - Vertical Line
			180	189	snap		
			190	199	snap		

200	209	snap
210	219	snap
220	229	fade

Color Scroll, Slow -> Fast

230	239	snap
240	249	snap
250	255	snap

Lite in
Lite out
Off

# Subfixture 2 - Toplayer 2 (High Priority / True Color)

20	Layer 2 Master	Layer 02	0	1	snap	0	Layer 2 transparent
21			2	65535	fade		0-100%
22	Flash Duration	Layer 02	0	250	fade	0	7 - 650 ms
23	Flash Rate / FX Speed	Layer 02	0	1	snap	255	No Flash / Single Flash when Valuechange on CH20 and Dimm Flash is ON
			2	250	fade		0,289 - 16,67 Hz
			250	252	snap		Hyper Speed
			253	255	snap		Continuous on (Blinder)
24	Flare FX	Layer 02	0	9	snap	0	off
			10	49	fade		slow - fast
			50	59	snap		off
			60	109	fade		Random slow - fast
			110	119	snap		off
			120	169	fade		Random pixel slow - fast
			170	255	snap		off
25	Red	Layer 02	0	255	Fade	255	0-100%
26	Green	Layer 02	0	255	Fade	255	0-100%
27	Blue	Layer 02	0	255	Fade	255	0-100%
28	White	Layer 02	0	255	Fade	255	0-100%
29	FX Selection	Layer 02	0	2	snap	0	Off
			3	5	snap		Sync Strobe - circle mask
			6	8	snap		Sync Strobe - 4 dot mask
			9	11	snap		Sync Strobe - 1 dot mask
			12	14	snap		Random Strobe - all
			15	17	snap		Random Strobe - circle mask
			18	20	snap		Random Strobe - 4 dot mask
			21	23	snap		Random Strobe - 1 dot mask
			24	26	snap		Lite in/out - all
			27	29	snap		Lite in/out - circle mask
			30	32	snap		Lite in/out - 4 dot mask
			33	35	snap		Lite in/out - 1 dot mask
			36	38	snap		Snake
			39	41	snap		Raindrops
			42	44	snap		Random pixel
			45	47	snap		Random fake x 2
			48	50	snap		Random fake x 4
			51	53	snap		Line
			54	56	snap		Double Line
			57	59	snap		Corner to corner line
			60	62	snap		Tilted double lines
			63	65	snap		Tilted double lines in to out
			66	68	snap		Center Line running dot
			69	71	snap		Middle Line running dot
			72	74	snap		Outer Line running dot
			75	77	snap		Corner to corner
			78	80	snap		Arrow
			81	83	snap		Wave
			84	86	snap		Wheel
			87	89	snap		Half Wheel
			90	92	snap		Circling Dot
			93	95	snap		Outer Circle
			96	98	snap		Inner Circle
			99	101	snap		Outer 4 dots
			102	104	snap		Outer single dot
			105	107	snap		Middle single dot
			108	110	snap		Spinning 2x1 dots
			111	113	snap		Asymetric 4 dots
			114	116	snap		Symetric 4 dots
			117	119	snap		Square
			120	122	snap		Inside out
			123	125	snap		Inside out 2
			126	128	snap		Abstract 1
			129	131	snap		Abstract 2
			132	134	snap		Abstract 3
			135	137	snap		Hash Tag
			138	140	snap		Flip flop
			141	143	snap		Jumping slash
			144	146	snap		Jumping 'L'
			147	149	snap		Jumping pins
			150	152	snap		Off - No Strobe or Fx
30	FX Crossfade Timing	Layer 02	0	1	snap	0	Off
			2	127	fade		Crosfade (fast > slow)
			128	255	fade		Crossfade and Tail (slow > fast)
31	FX Orientation	Layer 02	0	4	snap		Off
			5	9	snap		Rotate 90 grd
			10	14	snap		Rotate 180 grd
			15	19	snap		Rotate 270 grd
			20	24	snap		flip horisontel

			25	29	snap		Rotate 90 grd & flip vertical
			30	34	snap		Rotate 180 grd & flip horisontel
			35	39	snap		Rotate 270 grd & flip vertical
			40	44	snap		Off
			45	49	snap		Random Rotate & flip
			50	54	snap		Random position
			55	59	snap		Random position & Rotate 90
			60	64	snap		Random position & Rotate 180
			65	69	snap		Random position & Rotate 270
			70	74	snap		Off
			75	79	snap		Bounce
			80	84	snap		Bounce & rotate 90
			85	89	snap		Bounce & rotate 180
			90	94	snap		Bounce & rotate 270
			95	99	snap		Off
			100	104	snap		Rotate CCW when recived end
			105	109	snap		Rotate CW when recived end
			110	114	snap		Random Rotate when recived end
			115	119	snap		Off
			128	134	snap		Off
			135	139	snap		Rotate 90 grd
			140	144	snap		Rotate 180 grd
			145	149	snap		Rotate 270 grd
			150	154	snap		flip horisontel
			155	159	snap		Rotate 90 grd & flip vertical
			160	164	snap		Rotate 180 grd & flip horisontel
			165	169	snap		Rotate 270 grd & flip vertical
			170	174	snap		Off
			175	179	snap		Random Rotate & flip
			180	184	snap		Random position
			185	189	snap		Random position & Rotate 90
			190	194	snap		Random position & Rotate 180
			195	199	snap		Random position & Rotate 270
			200	204	snap		Off
			205	209	snap		Bounce
			210	214	snap		Bounce & rotate 90
			215	219	snap		Bounce & rotate 180
			220	224	snap		Bounce & rotate 270
			225	229	snap		Off
			230	234	snap		Rotate CCW when recived end
			235	239	snap		Rotate CW when recived end
			240	244	snap		Random Rotate when recived end
			245	249	snap		Off
32	FX Offset	Layer 02	0	255	fade	0	0-100%
33	FX Lenght	Layer 02	0	255	fade	0	0-100%
34	FX Colorgenerator	Layer 02	0	9	snap	0	Off
			10	19	snap		Random all, Red / Green / Blue / Yellow / Magenta / Cyan
			20	29	snap		Random single pixel, Red / Green / Blue / Yellow / Magenta / Cyan
			30	39	snap		Random all pixel Bright colors
			40	49	snap		Random single pixel Bright colors
			50	59	snap		Red / Blue
			60	69	snap		Red / Green
			70	79	snap		Blue / Green
			80	89	snap		Yellow / Magenta
			90	99	snap		Yellow / Cyan
			100	109	snap		Cyan / Magenta
			110	119	snap		Yellow / Blue
			120	129	snap		Green / Magenta
			130	139	snap		Red / Green / Blue
			140	149	snap		Red / Yellow / Blue
			150	159	snap		Red / Green / Blue / Yellow / Magenta / Cyan
			160	169	snap		Red / Green / Blue - Horisontel Line
			170	179	snap		Red / Green / Blue - Vertical Line
			180	189	snap		
			190	199	snap		
			200	209	snap		
			210	219	snap		
			220	229	fade		Color Scroll, Slow -> Fast
			230	239	snap		Lite in
			240	249	snap		Lite out
			250	255	snap		Off

# Main Fixture

35	CONTROL	0	11		0	Idle
		12	29			
		30	32			
		33	35			
		36	38			
		39	41	snap		Dimm Flash OFF (3s hold) (DEFAULT)
		42	44	snap		Dimm Flash ON (3s hold)
		45	47			
		48	50	snap		Dimming Curve 1 - Gamma 2 (3s Hold) (DEFAULT)
		51	53	snap		Dimming Curve 2 - Liniear Dimming (3s hold)

54	56	snap	(Dimming Curve 3)
57	59	snap	(Dimming Curve 4)
60	62		
63	65		
66	68	snap	Fan OFF
69	71	snap	<b>Fan REGULATED (DEFAULT)</b>
72	74	snap	Fan FIX
75	77		
78	80		
81	83		
84	86		
87	89	snap	Display OFF (3s hold)
90	92	snap	<b>Display ON (3s hold) (DEFAULT)</b>
93	95	snap	<b>Display Flip OFF (3s hold) (DEFAULT)</b>
96	98	snap	Display Flip ON (3s hold)
99	101		
102	104		
105	107	snap	<b>DMX Hold OFF = Blackout (3s hold) (DEFAULT)</b>
108	110	snap	DMX Hold ON (3s hold)
111	113		
114	116		
117	119	snap	<b>Rotation OFF (3s hold) (DEFAULT)</b>
120	122	snap	Rotate 90° (3s hold)
123	125	snap	Rotate 180° (3s hold)
126	128	snap	Rotate 270° (3s hold)
129	131		
132	134		
135	137	snap	<b>Output White Limitation OFF (DEFAULT)</b>
138	140	snap	Output White Limitation 80%
141	143	snap	Output White Limitation 60%
144	146	snap	Output White Limitation 40%
147	149	snap	Output White Limitation 20%
150	152	snap	Output White Limitation 10%
153	155		
156	158		
159	161	snap	<b>Output RGB Limitation OFF (DEFAULT)</b>
162	164	snap	Output RGB Limitation 80%
165	167	snap	Output RGB Limitation 60%
168	170	snap	Output RGB Limitation 40%
171	173	snap	Output RGB Limitation 20%
174	176	snap	Output RGB Limitation 10%
177	179		
180	182		
183	185		
186	188		
189	191		
192	194		
195	197		
198	200		
201	203		
204	206		
207	209		
210	212		
213	215		
216	218		
219	221		
222	224		
225	227		
228	230		
231	233		
234	236		
237	239		
240	242		
243	245		
246	248		
249	251		
252	255		Fixture Reboot (3s hold)

# KNV - Mode 6 - RGBW SinglePix 8bit (CH102)

Mode with 25 Single Pixel RGBW in 8 bit

date 2018-07-17  
SW

Number of Channels: 102  
Number of Fixtures per Universe: 5

Channel	Function	Values	Snap/Fade	Default	Remarks
virtual	Dimmer	Pixel 01			
1	Red	Pixel 01	0	255	Fade 255 0-100%
2	Green	Pixel 01	0	255	Fade 255 0-100%
3	Blue	Pixel 01	0	255	Fade 255 0-100%
4	White	Pixel 01	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 02			
5	Red	Pixel 02	0	255	Fade 255 0-100%
6	Green	Pixel 02	0	255	Fade 255 0-100%
7	Blue	Pixel 02	0	255	Fade 255 0-100%
8	White	Pixel 02	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 03			
9	Red	Pixel 03	0	255	Fade 255 0-100%
10	Green	Pixel 03	0	255	Fade 255 0-100%
11	Blue	Pixel 03	0	255	Fade 255 0-100%
12	White	Pixel 03	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 04			
13	Red	Pixel 04	0	255	Fade 255 0-100%
14	Green	Pixel 04	0	255	Fade 255 0-100%
15	Blue	Pixel 04	0	255	Fade 255 0-100%
16	White	Pixel 04	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 05			
17	Red	Pixel 05	0	255	Fade 255 0-100%
18	Green	Pixel 05	0	255	Fade 255 0-100%
19	Blue	Pixel 05	0	255	Fade 255 0-100%
20	White	Pixel 05	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 06			
21	Red	Pixel 06	0	255	Fade 255 0-100%
22	Green	Pixel 06	0	255	Fade 255 0-100%
23	Blue	Pixel 06	0	255	Fade 255 0-100%
24	White	Pixel 06	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 07			
25	Red	Pixel 07	0	255	Fade 255 0-100%
26	Green	Pixel 07	0	255	Fade 255 0-100%
27	Blue	Pixel 07	0	255	Fade 255 0-100%
28	White	Pixel 07	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 08			
29	Red	Pixel 08	0	255	Fade 255 0-100%
30	Green	Pixel 08	0	255	Fade 255 0-100%
31	Blue	Pixel 08	0	255	Fade 255 0-100%
32	White	Pixel 08	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 09			
33	Red	Pixel 09	0	255	Fade 255 0-100%
34	Green	Pixel 09	0	255	Fade 255 0-100%
35	Blue	Pixel 09	0	255	Fade 255 0-100%
36	White	Pixel 09	0	255	Fade 255 0-100%
virtual	Dimmer	Pixel 10			
37	Red	Pixel 10	0	255	Fade 255 0-100%
38	Green	Pixel 10	0	255	Fade 255 0-100%
39	Blue	Pixel 10	0	255	Fade 255 0-100%
40	White	Pixel 10	0	255	Fade 255 0-100%

virtual	Dimmer	Pixel 11					
41	Red	Pixel 11	0	255	Fade	255	0-100%
42	Green	Pixel 11	0	255	Fade	255	0-100%
43	Blue	Pixel 11	0	255	Fade	255	0-100%
44	White	Pixel 11	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 12					
45	Red	Pixel 12	0	255	Fade	255	0-100%
46	Green	Pixel 12	0	255	Fade	255	0-100%
47	Blue	Pixel 12	0	255	Fade	255	0-100%
48	White	Pixel 12	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 13					
49	Red	Pixel 13	0	255	Fade	0	0-100%
50	Green	Pixel 13	0	255	Fade	0	0-100%
51	Blue	Pixel 13	0	255	Fade	0	0-100%
52	White	Pixel 13	0	255	Fade	0	0-100%

virtual	Dimmer	Pixel 14					
53	Red	Pixel 14	0	255	Fade	255	0-100%
54	Green	Pixel 14	0	255	Fade	255	0-100%
55	Blue	Pixel 14	0	255	Fade	255	0-100%
56	White	Pixel 14	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 15					
57	Red	Pixel 15	0	255	Fade	255	0-100%



58	Green	Pixel 15	0	255	Fade	255	0-100%
59	Blue	Pixel 15	0	255	Fade	255	0-100%
60	White	Pixel 15	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 16					
61	Red	Pixel 16	0	255	Fade	255	0-100%
62	Green	Pixel 16	0	255	Fade	255	0-100%
63	Blue	Pixel 16	0	255	Fade	255	0-100%
64	White	Pixel 16	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 17					
65	Red	Pixel 17	0	255	Fade	255	0-100%
66	Green	Pixel 17	0	255	Fade	255	0-100%
67	Blue	Pixel 17	0	255	Fade	255	0-100%
68	White	Pixel 17	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 18					
69	Red	Pixel 18	0	255	Fade	255	0-100%
70	Green	Pixel 18	0	255	Fade	255	0-100%
71	Blue	Pixel 18	0	255	Fade	255	0-100%
72	White	Pixel 18	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 19					
73	Red	Pixel 19	0	255	Fade	255	0-100%
74	Green	Pixel 19	0	255	Fade	255	0-100%
75	Blue	Pixel 19	0	255	Fade	255	0-100%
76	White	Pixel 19	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 20					
77	Red	Pixel 20	0	255	Fade	255	0-100%
78	Green	Pixel 20	0	255	Fade	255	0-100%
79	Blue	Pixel 20	0	255	Fade	255	0-100%
80	White	Pixel 20	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 21					
81	Red	Pixel 21	0	255	Fade	255	0-100%
82	Green	Pixel 21	0	255	Fade	255	0-100%
83	Blue	Pixel 21	0	255	Fade	255	0-100%
84	White	Pixel 21	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 22					
85	Red	Pixel 22	0	255	Fade	255	0-100%
86	Green	Pixel 22	0	255	Fade	255	0-100%
87	Blue	Pixel 22	0	255	Fade	255	0-100%
88	White	Pixel 22	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 23					
89	Red	Pixel 23	0	255	Fade	255	0-100%
90	Green	Pixel 23	0	255	Fade	255	0-100%
91	Blue	Pixel 23	0	255	Fade	255	0-100%
92	White	Pixel 23	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 24					
93	Red	Pixel 24	0	255	Fade	255	0-100%
94	Green	Pixel 24	0	255	Fade	255	0-100%
95	Blue	Pixel 24	0	255	Fade	255	0-100%
96	White	Pixel 24	0	255	Fade	255	0-100%

virtual	Dimmer	Pixel 25					
97	Red	Pixel 25	0	255	Fade	255	0-100%
98	Green	Pixel 25	0	255	Fade	255	0-100%
99	Blue	Pixel 25	0	255	Fade	255	0-100%
100	White	Pixel 25	0	255	Fade	255	0-100%

101	Shutter	All Pixel	0	4	snap	255	Shutter Closed
			5	39	fade		Sync Ramp-Up (slow > fast)
			40	74	fade		Sync Ramp-Down (slow > fast)
			75	109	fade		Sync Ramp-Up-Down (slow > fast)
			110	144	fade		Random Ramp Up Down (slow > fast)
			145	179	fade		Pixel Flare FX (slow > fast)
			180	214	fade		RandomStrobe (slow > fast)
			215	249	fade		SyncStrobe (slow 1Hz > fast 10Hz)
			250	252	snap		Hyper Speed

253	255	snap	open
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102	CONTROL	0	11		0	Idle
		12	29			
		30	32			
		33	35			
		36	38			
		39	41	snap		Dimm Flash OFF (3s hold) (DEFAULT)
		42	44	snap		Dimm Flash ON (3s hold)
		45	47			
		48	50	snap		Dimming Curve 1 - Gamma 2 (3s Hold) (DEFAULT)
		51	53	snap		Dimming Curve 2 - Linear Dimming (3s hold)
		54	56	snap		(Dimming Curve 3)
		57	59	snap		(Dimming Curve 4)
		60	62			
		63	65			
		66	68	snap		Fan OFF
		69	71	snap		Fan REGULATED (DEFAULT)
		72	74	snap		Fan FIX
		75	77			
		78	80			
		81	83			
		84	86			
		87	89	snap		Display OFF (3s hold)
		90	92	snap		Display ON (3s hold) (DEFAULT)
		93	95	snap		Display Flip OFF (3s hold) (DEFAULT)
		96	98	snap		Display Flip ON (3s hold)
		99	101			
		102	104			
		105	107	snap		DMX Hold OFF = Blackout (3s hold) (DEFAULT)
		108	110	snap		DMX Hold ON (3s hold)
		111	113			
		114	116			
		117	119	snap		Rotation OFF (3s hold) (DEFAULT)
		120	122	snap		Rotate 90° (3s hold)
		123	125	snap		Rotate 180° (3s hold)
		126	128	snap		Rotate 270° (3s hold)
		129	131			
		132	134			
		135	137	snap		Output White Limitation OFF (DEFAULT)
		138	140	snap		Output White Limitation 80%
		141	143	snap		Output White Limitation 60%
		144	146	snap		Output White Limitation 40%
		147	149	snap		Output White Limitation 20%
		150	152	snap		Output White Limitation 10%
		153	155			
		156	158			
		159	161	snap		Output RGB Limitation OFF (DEFAULT)
		162	164	snap		Output RGB Limitation 80%
		165	167	snap		Output RGB Limitation 60%
		168	170	snap		Output RGB Limitation 40%
		171	173	snap		Output RGB Limitation 20%
		174	176	snap		Output RGB Limitation 10%
		177	179			
		180	182			
		183	185			
		186	188			
		189	191			
		192	194			
		195	197			
		198	200			
		201	203			
		204	206			
		207	209			
		210	212			
		213	215			
		216	218			
		219	221			
		222	224			
		225	227			

228	230			
231	233			
234	236			
237	239			
240	242			
243	245			
246	248			
249	251			
252	255			Fixture Reboot (3s hold)

## KNV - Mode 7 - RGBW Single Pixel 16bit (CH202)

**Mode with 25 SinglePix RGBW in 16 bit**

date 2018-07-17  
SW

Number of Channels:	202
Number of Fixtures per Universe:	2

Channel	Function		Values	Snap/Fade	Default	Remarks	
virtual	Dimmer	Pixel 01					
1	Red coarse	Pixel 1	0	65535	Fade	0	0-100%
2	Red fine						
3	Green coarse	Pixel 1	0	65535	Fade	0	0-100%
4	Green fine						
5	Blue coarse	Pixel 1	0	65535	Fade	0	0-100%
6	Blue fine						
7	White coarse	Pixel 1	0	65535	Fade	0	0-100%
8	White fine						
virtual	Dimmer	Pixel 02					
9	Red coarse	Pixel 2	0	65535	Fade	0	0-100%
10	Red fine						
11	Green coarse	Pixel 2	0	65535	Fade	0	0-100%
12	Green fine						
13	Blue coarse	Pixel 2	0	65535	Fade	0	0-100%
14	Blue fine						
15	White coarse	Pixel 2	0	65535	Fade	0	0-100%
16	White fine						
virtual	Dimmer	Pixel 03					
17	Red coarse	Pixel 03	0	65535	Fade	0	0-100%
18	Red fine						
19	Green coarse	Pixel 03	0	65535	Fade	0	0-100%
20	Green fine						
21	Blue coarse	Pixel 03	0	65535	Fade	0	0-100%
22	Blue fine						
23	White coarse	Pixel 03	0	65535	Fade	0	0-100%
24	White fine						
virtual	Dimmer	Pixel 04					
25	Red coarse	Pixel 4	0	65535	Fade	0	0-100%
26	Red fine						
27	Green coarse	Pixel 4	0	65535	Fade	0	0-100%
28	Green fine						
29	Blue coarse	Pixel 4	0	65535	Fade	0	0-100%
30	Blue fine						
31	White coarse	Pixel 4	0	65535	Fade	0	0-100%
32	White fine						
virtual	Dimmer	Pixel 05					
33	Red coarse	Pixel 5	0	65535	Fade	0	0-100%
34	Red fine						
35	Green coarse	Pixel 5	0	65535	Fade	0	0-100%
36	Green fine						
37	Blue coarse	Pixel 5	0	65535	Fade	0	0-100%
38	Blue fine						
39	White coarse	Pixel 5	0	65535	Fade	0	0-100%
40	White fine						
virtual	Dimmer	Pixel 06					
41	Red coarse	Pixel 6	0	65535	Fade	0	0-100%
42	Red fine						

43	Green coarse	Pixel 6	0	65535	Fade	0	0-100%
44	Green fine						
45	Blue coarse	Pixel 6	0	65535	Fade	0	0-100%
46	Blue fine						
47	White coarse	Pixel 6	0	65535	Fade	0	0-100%
48	White fine						

virtual	Dimmer	Pixel 07					
49	Red coarse	Pixel 7	0	65535	Fade	0	0-100%
50	Red fine						
51	Green coarse	Pixel 7	0	65535	Fade	0	0-100%
52	Green fine						
53	Blue coarse	Pixel 7	0	65535	Fade	0	0-100%
54	Blue fine						
55	White coarse	Pixel 7	0	65535	Fade	0	0-100%
56	White fine						

virtual	Dimmer	Pixel 08					
57	Red coarse	Pixel 8	0	65535	Fade	0	0-100%
58	Red fine						
59	Green coarse	Pixel 8	0	65535	Fade	0	0-100%
60	Green fine						
61	Blue coarse	Pixel 8	0	65535	Fade	0	0-100%
62	Blue fine						
63	White coarse	Pixel 8	0	65535	Fade	0	0-100%
64	White fine						

virtual	Dimmer	Pixel 09					
65	Red coarse	Pixel 9	0	65535	Fade	0	0-100%
66	Red fine						
67	Green coarse	Pixel 9	0	65535	Fade	0	0-100%
68	Green fine						
69	Blue coarse	Pixel 9	0	65535	Fade	0	0-100%
70	Blue fine						
71	White coarse	Pixel 9	0	65535	Fade	0	0-100%
72	White fine						

virtual	Dimmer	Pixel 10					
73	Red coarse	Pixel 10	0	65535	Fade	0	0-100%
74	Red fine						
75	Green coarse	Pixel 10	0	65535	Fade	0	0-100%
76	Green fine						
77	Blue coarse	Pixel 10	0	65535	Fade	0	0-100%
78	Blue fine						
79	White coarse	Pixel 10	0	65535	Fade	0	0-100%
80	White fine						

virtual	Dimmer	Pixel 11					
81	Red coarse	Pixel 11	0	65535	Fade	0	0-100%
82	Red fine						
83	Green coarse	Pixel 11	0	65535	Fade	0	0-100%
84	Green fine						
85	Blue coarse	Pixel 11	0	65535	Fade	0	0-100%
86	Blue fine						
87	White coarse	Pixel 11	0	65535	Fade	0	0-100%
88	White fine						

virtual	Dimmer	Pixel 12					
89	Red coarse	Pixel 12	0	65535	Fade	0	0-100%
90	Red fine						
91	Green coarse	Pixel 12	0	65535	Fade	0	0-100%
92	Green fine						
93	Blue coarse	Pixel 12	0	65535	Fade	0	0-100%
94	Blue fine						
95	White coarse	Pixel 12	0	65535	Fade	0	0-100%
96	White fine						

virtual	Dimmer	Pixel 13					
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