

BEATMIX 2/4 MIDI MAP



SWITCHES MIDI MSG		MSB		...	...	...	LSB		NOTE	
NAME	BYTE	CN	CIN	MIDI 0		MIDI 1		MIDI 2		
				DECK-A	DECK-C	NO SHIFT MIDI CMD	+SHIFT MIDI CMD	ON		OFF
				DECK-B	DECK-D					
			MIXER							
L-PAD1 (Blue)		0x09		0x91	0x93	0x00	0x08			
L-PAD1 (Red)		0x09		0x91	0x93	0x10	0x18	kv	0x00	*A1*A1
L-PAD1 (Violet)		0x09		0x91	0x93	0x00	0x08			
L-PAD2 (Blue)		0x09		0x91	0x93	0x01	0x09			
L-PAD2 (Red)		0x09		0x91	0x93	0x11	0x19	kv	0x00	*A1*A1
L-PAD2 (Violet)		0x09		0x91	0x93	0x01	0x09			
L-PAD3 (Blue)		0x09		0x91	0x93	0x02	0x0A			
L-PAD3 (Red)		0x09		0x91	0x93	0x12	0x1A	kv	0x00	*A1*A1
L-PAD3 (Violet)		0x09		0x91	0x93	0x02	0x0A			
L-PAD4 (Blue)		0x09		0x91	0x93	0x03	0x0B			
L-PAD4 (Red)		0x09		0x91	0x93	0x13	0x1B	kv	0x00	*A1*A1
L-PAD4 (Violet)		0x09		0x91	0x93	0x03	0x0B			
L-PAD5 (Blue)		0x09		0x91	0x93	0x04	0x0C			
L-PAD5 (Red)		0x09		0x91	0x93	0x14	0x1C	kv	0x00	*A1
L-PAD5 (Violet)		0x09		0x91	0x93	0x10	0x18			
L-PAD6 (Blue)		0x09		0x91	0x93	0x05	0x0D			
L-PAD6 (Red)		0x09		0x91	0x93	0x15	0x1D	kv	0x00	*A1
L-PAD6 (Violet)		0x09		0x91	0x93	0x11	0x19			
L-PAD7 (Blue)		0x09		0x91	0x93	0x06	0x0E			
L-PAD7 (Red)		0x09		0x91	0x93	0x16	0x1E	kv	0x00	*A1
L-PAD7 (Violet)		0x09		0x91	0x93	0x12	0x1A			
L-PAD8 (Blue)		0x09		0x91	0x93	0x07	0x0F			
L-PAD8 (Red)		0x09		0x91	0x93	0x17	0x1F	kv	0x00	*A1
L-PAD8 (Violet)		0x09		0x91	0x93	0x13	0x1B			
L-SHIFT		0x09		0x91	--	0x20	--	kv	0x00	*A1
L-SYNC		0x09		0x91	0x93	0x21	0x61	kv	0x00	*A1
L-CUP		0x09		0x91	0x93	0x22	0x62	kv	0x00	*A1
L-Main CUE		0x09		0x91	0x93	0x23	0x63	kv	0x00	*A1
L-PAUSE/PLAY		0x09		0x91	0x93	0x24	0x64	kv	0x00	*A1
L-BEATS Push		0x09		0x91	0x93	0x25	0x65	kv	0x00	*A1
L-PITCH BEND-		0x09		0x91	0x93	0x26	0x66	kv	0x00	*A1
L-PITCH BEND+		0x09		0x91	0x93	0x27	0x67	kv	0x00	*A1
L-DECK3		0x09		0x91	0x93	0x28	--	kv	0x00	*A1
L-PAD MODE1		0x09		0x91	--	0x29	--	kv	0x00	*A1
L-PAD MODE2		0x09		0x91	--	0x2A	--	kv	0x00	*A1
L-TOUCH		0x09		0x91	0x93	0x3F	0x7F	kv	0x00	*A1
R-PAD1 (Blue)		0x09		0x92	0x94	0x00	0x08			
R-PAD1 (Red)		0x09		0x92	0x94	0x10	0x18	kv	0x00	*A1*A1
R-PAD1 (Violet)		0x09		0x92	0x94	0x00	0x08			
R-PAD2 (Blue)		0x09		0x92	0x94	0x01	0x09			
R-PAD2 (Red)		0x09		0x92	0x94	0x11	0x19	kv	0x00	*A1*A1
R-PAD2 (Violet)		0x09		0x92	0x94	0x01	0x09			
R-PAD3 (Blue)		0x09		0x92	0x94	0x02	0x0A			
R-PAD3 (Red)		0x09		0x92	0x94	0x12	0x1A	kv	0x00	*A1*A1
R-PAD3 (Violet)		0x09		0x92	0x94	0x02	0x0A			
R-PAD4 (Blue)		0x09		0x92	0x94	0x03	0x0B			
R-PAD4 (Red)		0x09		0x92	0x94	0x13	0x1B	kv	0x00	*A1*A1
R-PAD4 (Violet)		0x09		0x92	0x94	0x03	0x0B			
R-PAD5 (Blue)		0x09		0x92	0x94	0x04	0x0C			
R-PAD5 (Red)		0x09		0x92	0x94	0x14	0x1C	kv	0x00	*A1*A1
R-PAD5 (Violet)		0x09		0x92	0x94	0x10	0x18			
R-PAD6 (Blue)		0x09		0x92	0x94	0x05	0x0D			
R-PAD6 (Red)		0x09		0x92	0x94	0x15	0x1D	kv	0x00	*A1*A1
R-PAD6 (Violet)		0x09		0x92	0x94	0x11	0x19			
R-PAD7 (Blue)		0x09		0x92	0x94	0x06	0x0E			
R-PAD7 (Red)		0x09		0x92	0x94	0x16	0x1E	kv	0x00	*A1
R-PAD7 (Violet)		0x09		0x92	0x94	0x12	0x1A			
R-PAD8 (Blue)		0x09		0x92	0x94	0x07	0x0F			
R-PAD8 (Red)		0x09		0x92	0x94	0x17	0x1F	kv	0x00	*A1
R-PAD8 (Violet)		0x09		0x92	0x94	0x13	0x1B			
R-SHIFT		0x09		0x92	--	0x20	--	kv	0x00	*A1
R-SYNC		0x09		0x92	0x94	0x21	0x61	kv	0x00	*A1
R-CUP		0x09		0x92	0x94	0x22	0x62	kv	0x00	*A1
R-Main CUE		0x09		0x92	0x94	0x23	0x63	kv	0x00	*A1
R-PAUSE/PLAY		0x09		0x92	0x94	0x24	0x64	kv	0x00	*A1
R-BEATS Push		0x09		0x92	0x94	0x25	0x65	kv	0x00	*A1
R-PITCH BEND-		0x09		0x92	0x94	0x26	0x66	kv	0x00	*A1
R-PITCH BEND+		0x09		0x92	0x94	0x27	0x67	kv	0x00	*A1
R-DECK4		0x09		0x92	0x94	0x28	--	kv	0x00	*A1
R-PAD MODE1		0x09		0x92	--	0x29	--	kv	0x00	*A1
R-PAD MODE2		0x09		0x92	--	0x2A	--	kv	0x00	*A1
R-TOUCH		0x09		0x92	0x94	0x3F	0x7F	kv	0x00	*A1

BEATMIX 2/4 MIDI MAP



SWITCHES MIDI MSG		MSB		...	...	...	LSB		NOTE	
NAME	BYTE	CN	CIN	MIDI 0		MIDI 1		MIDI 2		
				DECK-A	DECK-C	NO SHIFT MIDI CMD	+SHIFT MIDI CMD	ON		OFF
				DECK-B	DECK-D					
				MIXER						
M-LOAD3		0x09		0x93	--	0x50	0x40	kv	0x00	*A1
M-LOAD1		0x09		0x91	--	0x50	0x40	kv	0x00	*A1
M-CUE3		0x09		0x93	--	0x52	0x42	kv	0x00	*A1
M-CUE1		0x09		0x91	--	0x52	0x42	kv	0x00	*A1
M-LOAD4		0x09		0x94	--	0x50	0x40	kv	0x00	*A1
M-LOAD2		0x09		0x92	--	0x50	0x40	kv	0x00	*A1
M-CUE4		0x09		0x94	--	0x52	0x42	kv	0x00	*A1
M-CUE2		0x09		0x92	--	0x52	0x42	kv	0x00	*A1
M-BACK		0x09		0x95	--	0x08	0x48	kv	0x00	*A1
M-Browser Push(TRAX)		0x09		0x95	--	0x09	0x49	kv	0x00	*A1

NOTE *A1
kv : 0x7F

JOG/ENCODER MIDI MSG		MSB		...	...	...	LSB		NOTE	
NAME	BYTE	CN	CIN	MIDI 0		MIDI 1		MIDI 2		
				DECK-A	DECK-C	NO SHIFT MIDI CMD	+SHIFT MIDI CMD	ON		OFF
				DECK-B	DECK-D					
				MIXER						
L-WHEEL		0x0B		0xB1	0xB3	0x60	0x70	cv		*B1
L-BEATS		0x0B		0xB1	0xB3	0x61	0x71	cv		*B1
R-WHEEL		0x0B		0xB2	0xB4	0x60	0x70	cv		*B1
R-BEATS		0x0B		0xB2	0xB4	0x61	0x71	cv		*B1
M-Browser(TRAX)		0x0B		0xB5	--	0x60	0x70	cv		*B1

NOTE *B1

clockwise (CW)
cv=0x01 (slow rotate 1/800 round), 0x02 (rotate 2/800 round), 0x03 (3/800),,,, (fast)

counterclockwise (CCW)
cv=0x7F (slow rotate 1/800 round), 0x7E (rotate 2/800 round), 0x7D (3/800),,,, (fast)

VR MIDI MSG		MSB		...	...	...	LSB		NOTE	
NAME	BYTE	CN	CIN	MIDI 0		MIDI 1		MIDI 2		
				DECK-A	DECK-C	NO SHIFT MIDI CMD	+SHIFT MIDI CMD	ON		OFF
				DECK-B	DECK-D					
				MIXER						
L-FX1		0x0B		0xB1	--	0x01	0x41	cv		*C2
L-FX2		0x0B		0xB1	--	0x02	0x42	cv		*C2
L-FX3		0x0B		0xB1	--	0x03	0x43	cv		*C2
L-PITCH		0x0E		0xE1	0xE3	cv1	--	cv2		*C4
R-FX1		0x0B		0xB2	--	0x01	0x41	cv		*C2
R-FX2		0x0B		0xB2	--	0x02	0x42	cv		*C2
R-FX3		0x0B		0xB2	--	0x03	0x43	cv		*C2
R-PITCH		0x0E		0xE2	0xE4	cv1	--	cv2		*C4
M-MASTER		0x0B		0xB5	--	0x00	--	cv		*C2
M-PHONES		0x0B		0xB5	--	0x01	--	cv		*C2
M-CUE MIX		0x0B		0xB5	--	0x02	0x32	cv		*C2
M-SAMPLER		0x0B		0xB5	--	0x03	0x33	cv		*C2
L-GAIN3		0x0B		0xB3	--	0x10	0x30	cv		*C2
L-HIGH3		0x0B		0xB3	--	0x11	0x31	cv		*C1
L-MID3		0x0B		0xB3	--	0x12	0x32	cv		*C1
L-LOW3		0x0B		0xB3	--	0x13	0x33	cv		*C1
L-CH3 (LINE FADER)		0x0B		0xB3	--	0x14	0x34	cv		*C2
L-GAIN1		0x0B		0xB1	--	0x10	0x30	cv		*C2
L-HIGH1		0x0B		0xB1	--	0x11	0x31	cv		*C1
L-MID1		0x0B		0xB1	--	0x12	0x32	cv		*C1
L-LOW1		0x0B		0xB1	--	0x13	0x33	cv		*C1
L-CH1 (LINE FADER)		0x0B		0xB1	--	0x14	0x34	cv		*C2
R-GAIN4		0x0B		0xB4	--	0x10	0x30	cv		*C2
R-HIGH4		0x0B		0xB4	--	0x11	0x31	cv		*C1
R-MID4		0x0B		0xB4	--	0x12	0x32	cv		*C1
R-LOW4		0x0B		0xB4	--	0x13	0x33	cv		*C1
R-CH4 (LINE FADER)		0x0B		0xB4	--	0x14	0x34	cv		*C2
R-GAIN2		0x0B		0xB2	--	0x10	0x30	cv		*C2
R-HIGH2		0x0B		0xB2	--	0x11	0x31	cv		*C1
R-MID2		0x0B		0xB2	--	0x12	0x32	cv		*C1
R-LOW2		0x0B		0xB2	--	0x13	0x33	cv		*C1
R-CH2 (LINE FADER)		0x0B		0xB2	--	0x14	0x34	cv		*C2
M-FADER		0x0E		0xB5	--	0x2F	0x5F	cv2		*C2

NOTE *C1
cv=0x00(Min),,, 0x40(Center),,, 0x7F(Max)

NOTE *C2
cv=0x00(Min),,,,,,,,,,,,,, 0x7F(Max)

NOTE *C4
For Ex.
cv1=00(MIN),,,,,,,,,,7F(MAX) bit0~bit6 ; cv2=00(MIN),,,,,,,,,,7F(MAX) bit7~bit13

BEATMIX 2/4 MIDI MAP



LED MIDI MSG		MSB		...	...	...	LSB		NOTE	
NAME	BYTE	CN		MIDI 0		MIDI 1		MIDI 2		
				DECK-A	DECK-C	NO SHIFT MIDI CMD	+SHIFT MIDI CMD	ON		OFF
				DECK-B	DECK-D					
			MIXER							
L-DECK3 (Hardware based)		--		--	--	--	--	--	--	
L-PITCH (Hardware based)		--		--	--	--	--	--	--	
L-PAD MODE1 (Hardware based)		--		--	--	--	--	--	--	
L-PAD MODE2 (Hardware based)		--		--	--	--	--	--	--	
L-PAD1 (PAD Mode 1)		0x09		0x91	0x93	0x00	0x40	kv2	0x00	*D1*D1
L-PAD1 (PAD Mode 2)		0x09		0x91	0x93	0x08	0x48			
L-PAD1 (PAD Mode 3)		0x09		0x91	0x93	0x10	0x18			
L-PAD2 (PAD Mode 1)		0x09		0x91	0x93	0x01	0x41	kv2	0x00	*D1*D1
L-PAD2 (PAD Mode 2)		0x09		0x91	0x93	0x09	0x49			
L-PAD2 (PAD Mode 3)		0x09		0x91	0x93	0x11	0x19			
L-PAD3 (PAD Mode 1)		0x09		0x91	0x93	0x02	0x42	kv2	0x00	*D1*D1
L-PAD3 (PAD Mode 2)		0x09		0x91	0x93	0x0A	0x4A			
L-PAD3 (PAD Mode 3)		0x09		0x91	0x93	0x12	0x1A			
L-PAD4 (PAD Mode 1)		0x09		0x91	0x93	0x03	0x43	kv2	0x00	*D1*D1
L-PAD4 (PAD Mode 2)		0x09		0x91	0x93	0x0B	0x4B			
L-PAD4 (PAD Mode 3)		0x09		0x91	0x93	0x13	0x1B			
L-PAD5 (PAD Mode 1)		0x09		0x91	0x93	0x04	0x44	kv2	0x00	*D1*D1
L-PAD5 (PAD Mode 2)		0x09		0x91	0x93	0x0C	0x4C			
L-PAD5 (PAD Mode 3)		0x09		0x91	0x93	0x14	0x1C			
L-PAD6 (PAD Mode 1)		0x09		0x91	0x93	0x05	0x45	kv2	0x00	*D1*D1
L-PAD6 (PAD Mode 2)		0x09		0x91	0x93	0x0D	0x4D			
L-PAD6 (PAD Mode 3)		0x09		0x91	0x93	0x15	0x1D			
L-PAD7 (PAD Mode 1)		0x09		0x91	0x93	0x06	0x46	kv2	0x00	*D1
L-PAD7 (PAD Mode 2)		0x09		0x91	0x93	0x0E	0x4E			
L-PAD7 (PAD Mode 3)		0x09		0x91	0x93	0x16	0x1E			
L-PAD8 (PAD Mode 1)		0x09		0x91	0x93	0x07	0x47	kv2	0x00	*D1
L-PAD8 (PAD Mode 2)		0x09		0x91	0x93	0x0F	0x4F			
L-PAD8 (PAD Mode 3)		0x09		0x91	0x93	0x17	0x1F			
L-SYNC		0x09		0x91	0x93	0x20	0x60	kv	0x00	*D1
L-CUP		0x09		0x91	0x93	0x21	0x61	kv	0x00	*D1
L-Main CUE		0x09		0x91	0x93	0x22	0x62	kv	0x00	*D1
L-PAUSE/PLAY		0x09		0x91	0x93	0x23	0x63	kv	0x00	*D1
L-PITCH BEND +		0x09		0x91	0x93	0x24	0x64	kv	0x00	*D1
L-PITCH BEND -		0x09		0x91	0x93	0x25	0x65	kv	0x00	*D1
L-JOG Wheel-01		0x09		0x91	0x93	0x30		kv	0x00	*D1
L-JOG Wheel-02		0x09		0x91	0x93	0x31		kv	0x00	*D1
L-JOG Wheel-03		0x09		0x91	0x93	0x32		kv	0x00	*D1
L-JOG Wheel-04		0x09		0x91	0x93	0x33		kv	0x00	*D1
L-JOG Wheel-05		0x09		0x91	0x93	0x34		kv	0x00	*D1
L-JOG Wheel-06		0x09		0x91	0x93	0x35		kv	0x00	*D1
L-JOG Wheel-07		0x09		0x91	0x93	0x36		kv	0x00	*D1
L-JOG Wheel-08		0x09		0x91	0x93	0x37		kv	0x00	*D1
L-JOG Wheel-09		0x09		0x91	0x93	0x38		kv	0x00	*D1
L-JOG Wheel-10		0x09		0x91	0x93	0x39		kv	0x00	*D1
L-JOG Wheel-11		0x09		0x91	0x93	0x3A		kv	0x00	*D1
L-JOG Wheel-12		0x09		0x91	0x93	0x3B		kv	0x00	*D1
L-JOG Wheel-13		0x09		0x91	0x93	0x3C		kv	0x00	*D1
L-JOG Wheel-14		0x09		0x91	0x93	0x3D		kv	0x00	*D1
L-JOG Wheel-15		0x09		0x91	0x93	0x3E		kv	0x00	*D1
L-JOG Wheel-16		0x09		0x91	0x93	0x3F		kv	0x00	*D1
R-DECK4 (Hardware based)		--		--	--	--	--	--	--	--
R-PITCH (Hardware based)		--		--	--	--	--	--	--	--
R-PAD MODE1 (Hardware based)		--		--	--	--	--	--	--	--
R-PAD MODE2 (Hardware based)		--		--	--	--	--	--	--	--
R-PAD1 (PAD Mode 1)		0x09		0x92	0x94	0x00	0x40	kv2	0x00	*D1*D1
R-PAD1 (PAD Mode 2)		0x09		0x92	0x94	0x08	0x48			
R-PAD1 (PAD Mode 3)		0x09		0x92	0x94	0x10	0x18			
R-PAD2 (PAD Mode 1)		0x09		0x92	0x94	0x01	0x41	kv2	0x00	*D1*D1
R-PAD2 (PAD Mode 2)		0x09		0x92	0x94	0x09	0x49			
R-PAD2 (PAD Mode 3)		0x09		0x92	0x94	0x11	0x19			
R-PAD3 (PAD Mode 1)		0x09		0x92	0x94	0x02	0x42	kv2	0x00	*D1*D1
R-PAD3 (PAD Mode 2)		0x09		0x92	0x94	0x0A	0x4A			
R-PAD3 (PAD Mode 3)		0x09		0x92	0x94	0x12	0x1A			
R-PAD4 (PAD Mode 1)		0x09		0x92	0x94	0x03	0x43	kv2	0x00	*D1*D1
R-PAD4 (PAD Mode 2)		0x09		0x92	0x94	0x0B	0x4B			
R-PAD4 (PAD Mode 3)		0x09		0x92	0x94	0x13	0x1B			
R-PAD5 (PAD Mode 1)		0x09		0x92	0x94	0x04	0x44	kv2	0x00	*D1*D1
R-PAD5 (PAD Mode 2)		0x09		0x92	0x94	0x0C	0x4C			
R-PAD5 (PAD Mode 3)		0x09		0x92	0x94	0x14	0x1C			
R-PAD6 (PAD Mode 1)		0x09		0x92	0x94	0x05	0x45	kv2	0x00	*D1*D1
R-PAD6 (PAD Mode 2)		0x09		0x92	0x94	0x0D	0x4D			
R-PAD6 (PAD Mode 3)		0x09		0x92	0x94	0x15	0x1D			

BEATMIX 2/4 MIDI MAP



LED MIDI MSG		MSB			LSB		NOTE
NAME	BYTE	CN	MIDI 0		MIDI 1		MIDI 2			
			DECK-A	DECK-C	NO SHIFT MIDI CMD	+SHIFT MIDI CMD	ON	OFF		
			DECK-B	DECK-D						
			MIXER							
R-PAD7 (PAD Mode 1)	0x09	0x92	0x94	0x06	0x46	kv2	0x00	*D1		
R-PAD7 (PAD Mode 2)	0x09	0x92	0x94	0x0E	0x4E					
R-PAD7 (PAD Mode 3)	0x09	0x92	0x94	0x16	0x1E					
R-PAD8 (PAD Mode 1)	0x09	0x92	0x94	0x07	0x47	kv2	0x00	*D1		
R-PAD8 (PAD Mode 2)	0x09	0x92	0x94	0x0F	0x4F					
R-PAD8 (PAD Mode 3)	0x09	0x92	0x94	0x17	0x1F					
R-SYNC	0x09	0x92	0x94	0x20	0x60	kv	0x00	*D1		
R-CUP	0x09	0x92	0x94	0x21	0x61	kv	0x00	*D1		
R-Main CUE	0x09	0x92	0x94	0x22	0x62	kv	0x00	*D1		
R-PAUSE/PLAY	0x09	0x92	0x94	0x23	0x63	kv	0x00	*D1		
R-PITCH BEND +	0x09	0x92	0x94	0x24	0x64	kv	0x00	*D1		
R-PITCH BEND -	0x09	0x92	0x94	0x25	0x65	kv	0x00	*D1		
R-JOG Wheel-01	0x09	0x92	0x94	0x30	--	kv	0x00	*D1		
R-JOG Wheel-02	0x09	0x92	0x94	0x31	--	kv	0x00	*D1		
R-JOG Wheel-03	0x09	0x92	0x94	0x32	--	kv	0x00	*D1		
R-JOG Wheel-04	0x09	0x92	0x94	0x33	--	kv	0x00	*D1		
R-JOG Wheel-05	0x09	0x92	0x94	0x34	--	kv	0x00	*D1		
R-JOG Wheel-06	0x09	0x92	0x94	0x35	--	kv	0x00	*D1		
R-JOG Wheel-07	0x09	0x92	0x94	0x36	--	kv	0x00	*D1		
R-JOG Wheel-08	0x09	0x92	0x94	0x37	--	kv	0x00	*D1		
R-JOG Wheel-09	0x09	0x92	0x94	0x38	--	kv	0x00	*D1		
R-JOG Wheel-10	0x09	0x92	0x94	0x39	--	kv	0x00	*D1		
R-JOG Wheel-11	0x09	0x92	0x94	0x3A	--	kv	0x00	*D1		
R-JOG Wheel-12	0x09	0x92	0x94	0x3B	--	kv	0x00	*D1		
R-JOG Wheel-13	0x09	0x92	0x94	0x3C	--	kv	0x00	*D1		
R-JOG Wheel-14	0x09	0x92	0x94	0x3D	--	kv	0x00	*D1		
R-JOG Wheel-15	0x09	0x92	0x94	0x3E	--	kv	0x00	*D1		
R-JOG Wheel-16	0x09	0x92	0x94	0x3F	--	kv	0x00	*D1		
M-LOAD3	0x09	0x93	--	0x50	--	kv	0x00	*D1		
M-LOAD1	0x09	0x91	--	0x50	--	kv	0x00	*D1		
M-CUE3	0x09	0x93	--	0x52	0x72	kv	0x00	*D1		
M-CUE1	0x09	0x91	--	0x52	0x72	kv	0x00	*D1		
M-LAOD4	0x09	0x94	--	0x50	--	kv	0x00	*D1		
M-LOAD2	0x09	0x92	--	0x50	--	kv	0x00	*D1		
M-CUE4	0x09	0x94	--	0x52	0x72	kv	0x00	*D1		
M-CUE2	0x09	0x92	--	0x52	0x72	kv	0x00	*D1		

NOTE *D1
kv = 00, led = OFF
kv = 01-127, led = ON

NOTE *D2
kv2 = 00, led(BLUE and RED) = OFF
kv2 = 01-42, led(BLUE+RED) = ON
kv2 = 43-85, led(BLUE) = ON
kv2 = 86-127, led(RED)= ON