Cameo_Pixbar650CPro

This is another example for creating a vis file (old visualiser personality) from a d4 file (Titan personality). The fundamentals are described in Creating vis files from d4 personalities. Here, only the little details are explained.

- this fixture has subfixtures (cells) a feature neither the classic consoles nor the visualiser support
- instead, we build a vis personality which at least shows cell #1 so that we have an impression if the fixture should work
- colour temperature control is not supported
- patterns and sound are not implemented in the visualiser (they are in no visualiser I know of)

Master Dimmer 0-100%

Puls Random, slow -> fast

Strobe open

Strobe closed

Apart from that it works reasonably well in the visualiser.

The DMX table:

CH1

9-CH Mode CLPIXBAR450CPR0 / CLPIXBAR650CPR0

000

000

006

011

Dimmer

(full DMX tables are in the manual which is included in the zip below)

255

005

010

033

I		034	-	056	Ramp up Random, slow -> fast
CH2	Strobe	057	-	079	Ramp down Random, slow -> fast
I		080	-	102	Random Strobe Effect, slow -> fast
I	1	103	-	127	Strobe Break Effect, 5s1s (Very Short Flash)
I	1	128	-	250	Strobe slow -> fast 0Hz - 20Hz
		251	-	255	Strobe open
CH3	Red	000	-	255	0% to 100%
CH4	Green	000	-	255	0% to 100%
CH5	Blue	000	-	255	0% to 100%
		000	-	005	Colour off
I	1	006	-	013	Red
I	1	014	-	021	Amber
I	1	022	-	029	Yellow warm
I	Colour Macro (override RGB)	030	-	037	Yellow
I		038	-	045	Green
I		046	-	053	Turquoise
I		054	-	061	Cyan
I		062	-	069	Blue
CH6		070	-	077	Lavender
I		078	-	085	Mauve
I		086	-	093	Magenta
I	1	094	-	101	Pink
I		102	-	109	Warm White
		110	-	117	White
		118	-	125	Cold White
		126	-	128	Colour Jumping Stop
		129		192	Colour Jumping Speed slow -> fast / Colour 1 -> 12
		193	-	255	Colour Fading Speed slow -> fast / Colour 1 -> 12
	Colour Tem-	000	-	005	off
CH7	perature	006	-	255	cold to warm
		000	-	005	Pattern off
	1	006	-	023	Dream

Most importantly, when setting the Classic Pearl References in the Personality Builder, we also need

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to add the attributes to the respective Compatibility Attributes sections of the multicell modes as this is where R20 and VIS files are created from:

- check Classic Pearl References as described
- add references for the 26ch and the 30ch modes (I used UKCM65C5 and UKCM65C6)
- unfold both modes (left panel)
- click on Compatibility Attributes (left)

E PIXBAR 650CPRO	Athbutes	Functions Created Atribute	Current Functiona	Hatory Modes	Macros Pale	etes Swatch	
	Colour M	Shutter acro CTO	Red & Ato	Green + Sound	C	Bue Master Drover	
B- Compatibility Athibutes	26 DMX						
inN detres	V Mode Chamel Hidden	5	26 Fa 21	lae 5 DMX			
	V Refere Atabase Classic F Diamono RDM Ma	ncesa Mode ID Pearl Reference 12/3 Reference apping	00	000000-0000-0000 UNCM65C5	-0000-0000000	00000	
	Name How this mode will be displayed in your console's patch menu.						

 top-right, in the Created Attributes tab, doubleclick on the attributes you want in that mode (26ch: Dimmer, Shutter, Red, Green, Blue; 30ch: Dimmer, Shutter, Red, Green, Blue, Colour Macro, CTO, Auto, Sound) - the attributes are assigned channels in the order you add them, thus adding in the correct order makes life easier

PIXEAR 650CPRO	Athbutes Functions	Created Attributes	Current Functions	Hatory	Modes	Macros	Palettes	Swatch		
Histoy Histoy Physical Physical Articulas Arti	Dimmer Colour Macro C Shutter	CTO	Red % Auto		Green • Sound		D Har	ter Dimme	r	
	26 DMX	26 DMX								
Shutter	V Node	V Node								
	Channels		26	26						
	Hidden		Fr	lae						
Blue	Name	Nane 26 DMX								
: 30 DMX	 References 									
 Macros 	AtlaBase Mode ID	AtlaBase Mode ID				0000000-0000-0000-0000-000000000000				
i) Palettes	Classic Pearl Refere	Classic Pearl Reference			UKCM65C5					
	Diamond 2/3 Refere	nce		1						
	RDM Mapping									
	Name									

The coubleclick adds each attribute to the selected mode (here: compatibility attributes). Alternatively you can drag and drop the attributes there.

 now we need to check/correct the channels for each Compatibility Attributes section. Click on Compatibility Attributes (left), then on the tab Channel (bottom right). Check (and correct) the channel offsets as required, 2025/08/25 20:31

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B- & Cel		Shutter	8 Bit	2			
B- 6 90MX		Red	8 Bit	3			
⊕- 4 30 DMX		Green	8 Bit	4			
B Gol Master		Blue	8 Bit	5			
(i) 🛟 Cela		Colour Macro	8 Bit	27			
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Now you can proceed with generating R20 and VIS files as described.

In between generating the files you'll get the error message

Error	×
\otimes	The pearl reference, "", for the mode "Cell" is invalid. Skip mode and continue?
	OK Abbrechen

This is normal as we don't need R20 and VIS files for the hidden Cell mode. Click 0K to skip and continue.

Checking and editing the VIS files is straight-forward - simply adjust the DMX ranges, add missing ranges, change some fixed colour ranges to colour scroll ranges:

- m1 2ch (UKCM65C1.VIS)
 - Color Wheel 1: adjust 1st range, change last ranges to speed (color change)
- m2 3ch (UKCM65C2.VIS)
 - Shutter: adjust range dmx end
 - Color Wheel 1: adjust 1st range, change last ranges to speed (color change)
- m3 3ch m2 (UKCM65C3.VIS) not in DMX chart, seems to be okay for RGB, leave it untouched
- m4 9ch (UKCM65C4.VIS)
 - Shutter: adjust range dmx end, add last Open range (251~255)
 - Color Wheel 1: adjust 1st range, change last ranges to speed (color change)
 - $\circ\,$ CTO/Color Wheel 2: adjust range dmx end
- m5 26ch (UKCM65C5.VIS)
 - $\circ\,$ Shutter: adjust range dmx end, add last Open range (251~255)
- m6 30ch (UKCM65C6.VIS)
 - \circ Shutter: adjust range dmx end, add last Open range (251~255)
 - $\circ\,$ Color Wheel 1: adjust 1st range, change last ranges to speed (color change)
 - $\circ\,$ CTO/Color Wheel 2: adjust range dmx end

Example: changed Shutter definition:

// Shutter ChanRef Dimm

Char	nRef Dimmer	
	Vismode Strobe	
	UseBits 1 2 3 4 5 6	78
	DmxOffset 2	
	Mapping 0 5 1 1	
	Mapping 6 10 0 0	
	Mapping 11 33 30 300)
	Mapping 34 56 1 1	
	Mapping 57 79 1 1	
	Mapping 80 102 30 30	90
	Mapping 103 127 1 1	
	Mapping 128 250 30 3	300
	Mapping 251 255 1 1	
End		

The edited and tested files are in this zip:

cameo_pixbar650cpro.zip

Refer to Creating vis files from d4 personalities for more details.

More examples:

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• American DJ Ikon Profile

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