Creating R20 files from d4 personalities

(This is NOT an official documentation but simply based on my personal experiences - it might be not complete or even simply wrong in some aspects. Please give feedback if you find anything that you think should be improved.)

R20 files had been the personalities for the Classic consoles from the Pearl 2000 on. After production of the Classic consoles was stopped, Avolites also ceased to offer free personality service for this system in 2019. You can still download the existing personalities, but no new ones will be created.

This page is intended to be helpful when you need a new personality for a fixture which isn't in the library for classic consoles but does exist as d4 file for the Titan system.

The Pearl 2008 and Tiger Manual contains a highly recommended section (sect. 14) about how personality files need to be written and what each entry does.

Items currently **NOT** covered by this page are

- conditions in d4 files (need to be stripped for R20 files)
- compatibility attributes

Preliminary Considerations

It is good to understand the main differences (with regards to personalities) between the old Classic system and the new Titan system. When using the Personality Builder to export R20 files from existing d4 files you most likely need to correct some details following these points.

- 1. With R20 files, **each mode requires a separate personality file**, while in the d4 world there is only one file per fixture, holding all the modes.
- 2. **No Virtual Dimmers in Classic!** In Titan you can define a dimmer channel which doesn't exist in the fixture, to proportionally dim e.g. red/green/blue colour channels. This is not possible on Classic consoles, and thus not supported in R20 files.
- 3. **No cells/subfixtures in Classic!** Nowadays there are numerous fixtures available with many individually controllable pixels or other parts, and in Titan there is a mechanism where you can control all such parts simultaneously (as Master channels) or individualle (as subfixtures or cells). This is not possible in Classic. As such, cell modes as well as modes using cells are not supported in R20 files. There is a special feature called compatibility attributes which attempts to spread out all such attributes onto available attribute banks but this is currently not covered from this explanation.
- 4. No Conditions in Classic! In Titan it is rather common to have a virtual function-select attribute which controls how other attributes can be adjusted, e.g. a wheel Gobo Func where you can select Index, Scroll and Shake, and the Gobo wheel itself then shows only a subsection of all the Gobo values. This is not possible in Classic.
- 5. **No 16 bit Dimmer in Classic!** While in theory this should be possible, in reality there is an issue in the software which doesn't allow such dimmers to be dimmed down to 0. Thus you might need to reduce the resolution to 8 bit and put the extra channel elsewhere.
- 6. **Two wheels only in Classic!** While there are at least three control wheels on Titan consoles and it is easy to add and operate attributes on multiple pages, Classic consoles have only two

wheels, and spreading attributes across pages is best avoided.

7. Classic wheel mapping not stored in d4 files! Subsequently to the previous point the wheel mapping (i.e. how the attributes are laid out onto the wheels) for Classic consoles is in most cases different from the mapping in Titan. However, as the d4 file format is targeted towards Titan, it doesn't provide means to store the mapping for Classic consoles. The personality builder has the option to export and import this as separate xml file in File ⇒ Export ⇒ Pearl Mapping. But you need to keep track of such files if you are using this.

1. Check if there really doesn't exist one

Use the search on https://personalities.avolites.com/ to check if there really doesn't exist what you need - downloading is always faster than attempting to do yourself.

2. Update your personality library

You certainly do not want to work with old data. Thus, download and install the latest Titan Fixture Library from https://personalities.avolites.com/.

3. Identify the correct d4 file

We assume that a d4 personality for your fixture already exists. Luckily they usually have verbose file names - have a look in the personality folder (with the PC suite installed it is C:\Program Files (x86)\Avolites\Titan\FixtureLibrary). If you don't find what you need then search at https://personalities.avolites.com/ or https://www.avolites.de/downloads/d4find for the correct filename. If you still don't find anything then request the personality for Titan or build it yourself (this might be explained on another day).

If you have found the correct d4 file copy it to a suitable location, e.g. your desktop, and open it in the Titan Personality Builder.

If you want to try it yourself then, as an example, you can download and open the personality of the

Prolight Equinox Fusion 260ZR

. The PersoBuilder will open with the whole tree collapsed, and the Attributes (top) and Properties (bottom) tabs selected:

Prolight Equinox Fusion 260ZR - Pe File Edit View Tools Help	rsonality Builder	- 0	×
Equinox Fusion 260ZR History Manual Physical Attributes Attributes Attributes Attributes	+ Generic + Reserved ♣ Pan ♣ Tilt Colour Colour 1 Colour Macro Cobo	Current Functions History Modes Max Dimmer Shutter Colour 2 Gobo Rot	< • •
⊕∳ Palettes	Fixture Manufacturer Name Name Name Name Name	Prolight Equinox Fusion 260ZR	~
	Properties DMX Values Channels Whe	eel Mapping Locate Values Cells	.::

4. Identify modes, enter references

As stated above the Classic system cannot handle some specific things which came with Titan. One of them are cells and subfixtures. Thus, cell modes as well as modes referencing those cannot be exported as R20 (we omit the 'Compatibility Attributes' workaround for the moment).

In the left-hand pane expand the Modes section by clicking on the + sign. Now it will look like this:

M Prolight Equinox Fusion 260ZR - Personalit	y Builder	- 🗆 X
File Edit View Tools Help		
Equinox Fusion 260ZR	Attributes Functions Created Attributes	Current Functions History Modes Mac •
🛄 Manual 🔯 Physical	+ Generic + Reserved 아고 Pan 아고 Tit	Dimmer A
⊕-∯ Attributes ⊖∯ Modes	Colour Colour 1 Colour Macro Gobo	Colour 2 Cobo Rot
⊕- <u>–</u> , 2 DMX ⊛- <u>_</u> , 8 DMX	Fixture	
⊞- <u>-</u> 17 DMX	Manufacturer	Prolight ^
● 25 DMX	Name	Equinox Fusion 260ZR
⊕- <u>₽</u> Cell ⊕- ► Macros ⊕- ✔ Palettes	Name Name of this fixture	el Mapping Locate Values Cells

One by one expand each mode (you might enlarge the PersoBuilder's window for a better overview), and identify the modes which you want to and can export as R20 file:

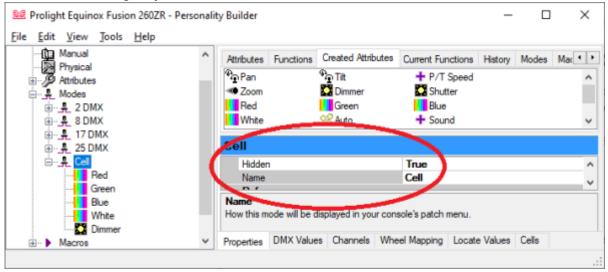
- the 2 DMX mode features only Auto and Sound as attributes. You will hardly use this at all. Let's just skip it.
- the 8 DMX and 17 DMX modes look promising. We'll attempt to export those as R20.

₩ Prolight Equinox Fusion 260ZR File Edit View Tools Help	- Personality Builde	r			-		×
Modes	^ Attribut	es Functions	Created Attributes	Current Functions	History	Modes	Mac • •
⊛- <u>-</u>	+ Ger ®⊡ Par	1	+ Reserved	Dimmer Shutter			^
9 Tilt Zoom Dimmer Red		our Macro	Colour 1 Cobo	Colour 2			~
Green Blue White		nufacturer		Prolight Equinox Fusion	260ZR		\$
।⊪ <u>-</u>	Name Name o	f this fixture					
	✓ Propertie	es DMX Value	es Channels Whe	eel Mapping Locat	e Values	Cells	

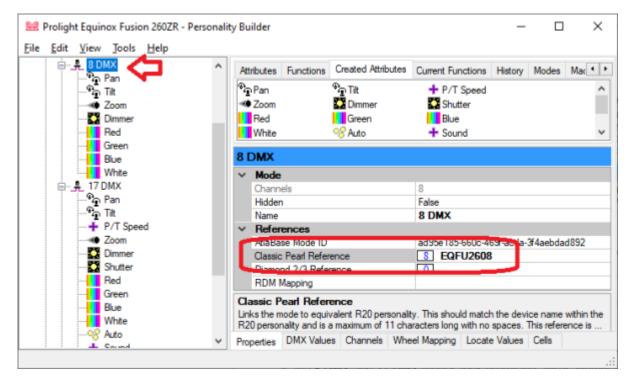
• the **25 DMX** mode contains the sections Cell Master, Cells, and Compatibility Attributes (here empty) - this is a mode which uses cells, and thus cannot be exported as R20.

201 Prolight Equinox Fusion 260ZR - Persona	lity Builder			-		×
<u>File Edit View Tools H</u> elp						
Equinox Fusion 260ZR	Attributes Functions	Created Attributes	Current Functions	History	Modes	Mac
	+ Generic	+ Reserved	Dimmer			^
Physical ⊕ Attributes	Colour	Colour 1	Colour 2			- 11
ia	Colour Macro	Gobo	Gobo Rot			*
	Fixture					
⊞- <u>-</u> <u></u> , 17 DMX	Manufacturer		Prolight			^
ia	Name		Equinox Fusion	260ZR		¥
Cels Compatibility Attributes Cel	Name Name of this fixture					
	Properties DMX Value	s Channels Whe	el Mapping Locate	e Values	Cells	

 finally the Cell mode is the one which is only referenced in the 25 DMX mode. proof for this is the Hidden attributes set to true: left, click on the mode Cell itself, and in the properties section (bottom right) you'll find Hidden set to True:



In order to make the selected modes exportable they each need a distinct Classic Pearl Reference. While it is possible to use up to 11 characters life is much easier if you restrict this to 8 characters. It is good practice to use the first 2 characters for an abbreviation for the manufacturer, characters 3~6 for the fixture name, and the last two for the DMX mode. Here let's use **EQ**uinox **FU**sion **26**0ZR **08** (DMX), or **EQFU2608**, and **EQFU2617** respectively. In PersoBuilder, left, click on the mode, in the properties tab (bottom-right) find Classic Pearl Reference, and enter the references we have found.



Do so for each mode which you plan to export as R20.

5. Check Wheel Mapping

Unlike Titan consoles classic only features 2 encoder wheels, and the attribute banks are structured differently. Obviously wee need to check the wheel mapping – the way how the attributes are laid out on the wheels and banks. In order to do this click on the Wheel Mapping tab on the bottom, enlarge the program window so that you have a good overview, select a mode on the left (pro tip: start with bigger modes, than smaller ones may also fit), then select the Classic Pearl tab on top-right, and tick the Filter by Mode checkbox. It will look like this:

Last update: 2022/05/31 personality:create_r20_from_d4 https://www.avosupport.de/wiki/personality/create_r20_from_d4?rev=1653984 08:01	Last update: 2022/05/31 08:01	personality:create_r20_from	m_d4 https://www.avosupport.de/wiki/pe	rsonality/create_r20_from	_d4?rev=165398409
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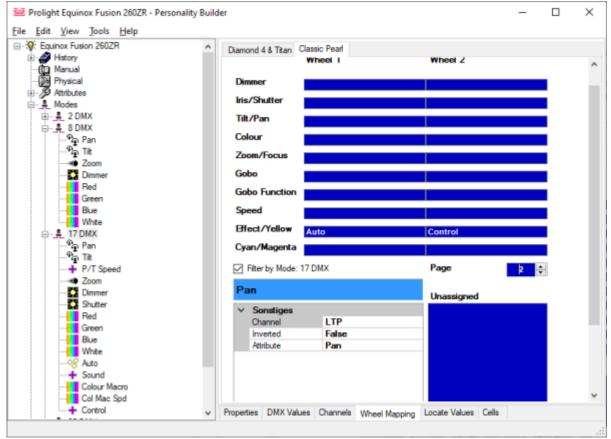
201 Prolight Equinox Fusion 260ZR - Personality B	uilder	0		-		×
<u>File Edit View Tools H</u> elp		<u> </u>	_			
Equinox Fusion 260ZR	Diamond 4 & Tean		-			
🕀 🥔 History						
🛄 Manual	Wheel Assignme	t for R29 rile Export				<u>^</u>
Physical		Wheel 1	Wheel 2			
⊛-∬9 Attributes ⊟- ♣ Modes	Dimmer					
		Dimmer				
	Iris/Shutter					
Pan Pan	Tilt/Pan	Tilt	Pan			
Pan Tit	Colour	Col Mac Spd				
🚺 Dimmer	Zoom/Focus	Zoom				
Red	<u></u>	200m				
Green	Gobo					
Blue	Gobo Function					
	Speed	P/T Speed	Sound			
Pa Pan Pa Tit	Effect/Yellow	1	Blue			
- + P/T Speed	Cyan/Magenta		C			
Zoom	ojano ranganda	Kea	Green			
🚺 Dimmer	Filter by Mode:	DMX	Page		1 📮	
🔛 Shutter	Pan					
Red	Pan		Unassigned			
Green	 Sonstiges 		Shutter			
	Channel	LTP	Auto Colour Macro			
	Inverted	False	Control			
+ Sound	Attribute	Pan				
Colour Macro						~
Col Mac Spd 🗸 🗸	Properties DMX Val	ues Channes Wheel Mag	oping Locat plues	Cells		
						.::

In the righthand area you can now drag and drop each attribute, in order to move it to another bank and wheel. Usually the suggested mapping is a good starting point. The most important thing is to move attributes from the 'Unassigned' area (bottom right) onto a valid blue rectangle (defined by Wheels and attribute group). Also using the Page select box with arrow buttons you can toggle to more pages. My result looks this:

Prolight Equinox Fusion 260ZR - Pers	onality Builder			- 0	×
Edit View Tools Help	A	Dury Classic Read			
1 - A History	Diamond 4 &	Titan Classic Pearl			
Manual Manual	Wheel Assi	gnment for R20 File	Export		^
- Physical		Wheel 1	Wheel 2		
Attributes					
🖃 🛔 Modes	Dimmer	Dimmer			
<u> <u> <u> </u> <u> </u></u></u>	Iris/Shutt				
🖨 🕂 🕺 8 DMX	ins/ Shutt		Shutter		
- 🏤 Pan	Tilt/Pan	Tilt	Pan		
92 Tit	Colour				
Zoom		Col Mac Spd	Colour Macro		
Dimmer	Zoom/For	zus Zoom			
	Gobo				
Blue					
Whte	Gobo Fun	ction			
□- ♣ 17 DMX	Speed	P/T Speed	Sound		
Pan Pan					
-92 Tit	Effect/Ye	llow White	Blue		
P/T Speed	Cyan/Mag	enta Red	Green		
Zoom					
🌄 Dimmer	Filter by	Mode: 17 DMX	Page	1 🖶	
🚺 Shutter	Pan				
	Pan		Unassigned		
Green	✓ Sonst	iges			
Blue	Chann	el LTP			
White	Inverte	d False			
	Attribut	e Pan			
+ Sound					
Colour Macro					~
	Presenting DI	V Values Changels	I Landa Values Call		
	✓ Properties DI	values channels	Wheel Mapping Locate Values Cell	5	

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- Shutter was moved from Unassigned to Iris/Shutter, Wheel 2
- Colour Macro was moved from Unassigned to Colour, Wheel 2
- White was on page 2. There I moved it to Unassigned, toggled to page 1, and moved it to Effect/Yellow, Wheel 1.



• Auto and Control are good candidates for page 2, Effect/YelloW attribute bank.

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Please note that the Classic Pearl wheel mapping is not stored in the d4 file. If you made any changes which you want to store separately for future use then you need to export it using File -> Export -> Pearl Mapping. This will export the mapping onyl as xml file which you need to store and keep track of separately.

Your work on this page is done when nothing is in the Unassigned area, and nothing in the top boxes is red - on every page!

6. Export R20

After having entered the references and checked/adjusted the wheel mapping it is time to have a go on creating R20 files: click File -> Generate R20 Files.... Here are some prompts and solutions which might happen.

Question × Generate Visualiser files?	most likely you will answer No - generating visualiser files is explained in Creating vis files from d4 personalities
	here it complains about the missing reference for the 2 DMX
Error × The pearl reference, **, for the mode *2 DMX* is invalid. Skip mode and continue?	mode. We left this one empty intentionally. Thus click 0K here to
OK Abbrechen	continue. You'd click Cancel if you'd decide to add a reference for this mode as well.

				now it's getting closer: we are prompted for name and location of the first mode (have a look at this
				prompt's title bar, it reads Save "8
902 Save "8 DMX" (EQFU2608)			×	DMX" (EQFU2608).
	,	Person	alities durchsuchen	The location
Organisieren 👻 Neuer Ordner			iii • 👔	is completely
Desktop * Name Avo_S8_BK * Dokumente * Dieser PC JD-Objekte Bilder Desktop Dokumente Dateiname Dateiname Dateityp: Azure/Pearl/Sapphire Personality (*.R20) Ordner ausblenden	Anderungsdøtum Typ Es wurden keine Suchergebnisse gefunden.	Größe	√ √	up to you (personally I'd prefer the desktop). The file name is a little special: while for the moment the suggested name would be okay it would be impossible to import this into a real
				Classic console. Hence I'd recommend to change the file name to the 8 char name which we defined as reference for this mode, in this case EQFU2608.

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32 Save "8 DMX" (EQFU2608)	
← → * ↑ 🗖 > Dieser PC > W7_System (E:) > Benutzer > Administrator > Desktop 🗸 Õ 🔎 Desktop durchsuchen	
Organisieren 👻 Neuer Ordner	
▲ Name ▲ Ānderungsdatum Typ Größe	
Es wurden keine Suchergebnisse gefunden.	
Avo_SB_BK #	
Dokumente 🖈	
E Bilder 🖈	Here location
Produkte at	and name are
icke x*	as suggested.
OneDrive	
Dieser PC 30-Objekte	
E Bilder	
Dateiname: EQFU2608.R20	
Dateityp: Azure/Pearl/Sapphire Personality (*.R20)	
Ordner ausblenden Speichern Abbrechen	
	4
	Pretty much
	self
	explanatory:
	there is a
	macro
	defined which
	uses an
	attribute
	which is not
Question	included in
	this mode.
	Maybe you
The attribute, Control, is not included in this mode but is in the macro Reset.	want to
Write macro anyway?	cancel here,
	go back, and
	check which
Ja Nein	macros and
	attributes are
	defined. In
	this case it is
	100% correct,
	and we do
	not include
	the macro in
	this mode:
	click No.

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998 Save "17 DMX" (EC		7) serPC > Desktop >		Ŷ	ق ب۵ Deskt	op durchsuchen	Now we are about to save
Organisieren 👻	Neuer	Ordner				80 🔹 👔	the next mode's
Avo_SB_BK Avo_SB_BK Dokumente Bilder Produkte icke OneDrive Dieser PC 3D-Objekte Bilder Deskton Dateinante	* * * *	Name BEQFU2608.R20 CSAbhDesktop\EQFU2608.R20 Desktop\EQFU2608.R20 Desktop\EQFU2608.R20	Anderungsdatum 30.05.2022 10:30	Тур Visualiser.R20File	Größe 7 KB		personality file. Please note that it did not change the suggested filename to the new mode. You need to manually change the filename again, here to
 Ordner ausblende 	in				Speicher	Abbrechen	EQFU2617.

Question The channels assigned to wheels part of the DMX range. Note: Visualiser will require com Adjust limits to match?	-			This is quite common, in particular for attributes like Shutter, Gobo or Colour: in this case e.g. the shutter has a value range from 0~15 for 0pen, but it is only 0 in the d4 file - and then the strobe range starts at 16, leaving the values 115
	Ja Nein			not defined.
Prolight Equinox Fusion 260ZR - Personali File Edit View Tools Help 	ty Builder Start At DMX Value 0 End At DMX Value 255 Assign One Value Auto Assign Shutter Functions 1D ID Name Start At 0 2 Strobe %	0	Pad text to Start from I Wheel Displa Open Strobe	This is okay for d4 (Titan) as well as R20 (Classic) files but is a problem for visualiser files. However I'd recommend to adjust the values manually if required (see Creating vis files from d4 personalities).
				The Image below shows where the ranges are set in this example.

Error The pearl reference, "", for the mode "25 DMX" is invalid. S mode and continue?	Here again a Pearl reference is missing - this is the 25ch mode which we cannot export because it contains cells Hit 0K.
OK Abbre	Similar

What you should have learned by now: if a prompt occurs then don't just click 0K. Read it, and decide!

If everything goes well then you end up with these files:

- Prolight_Equinox Fusion 260ZR.d4
 - EQFU2608.R20
 - EQFU2617.R20

7. Finetuning / bugfixing in R20 files

There is a good chance the exported files work and can be used in your Classic console. However sometimes you might need to tweak the R20 files directly. At least now you should have read chapter 14 of the Pearl 2008 and Tiger Manual to get a coarse idea about what is going on. Then load the file into a text editor (I prefer Notepad++) an edit to your liking.

Last update: 2022/05/31 personality:create_r20_from_d4 https://www.avosupport.de/wiki/personality/create_r20_from_d4?rev=1653984099

One example of where you need to edit the R20 files directly is a very specific issue with the old software and 16bit dimmers: there are fixtures where not only pan, tilt or e.g. the gobo are controlled in 16bit resolution, but also the dimmer is, taking 2 Dmx channels and allowing a very fine controlling. Unfortunately the classic software has problems handling this: you can e.g. set the dimmer to 0 using the channel menu, but as soon as you hit Clear the dimmer is slightly on again: the Dimmer fine channel (LSB) resets to 254 instead of 0, effectively bringing the dimmer output to approx. 0.4%.



The fix is to make the personality with an 8 bit dimmer, and set the Dimmer fine channel to 0. Example here is the Elation Arena Par Zoom v2 15 DMX - you can use the

Titan Personality

and export the R20 files as described (hint: references are already in, only two wheels need to be mapped), or you directly check the file

ELAPZM26.R20

- this is mode 5 of this fixture, and the channel assignment is this:

Channel	Function
1	Red high
2	Red low
3	Green high
4	Green low
5	Blue high
6	Blue low
7	White high
8	White low
9	Colour Macro
10	Dimmer high
11	Dimmer low
12	Shutter
13	Dimmer Speed
14	Zoom high
15	Zoom low

Now in the ELAPZM26.R20 file find the DMX section which looks like this:

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DMX channel description ; Column by column description of each DMX channel ; 1. The channels bank number (1..20) 2. The upper faders in the bank (1) or the lower faders in the bank (61) 3. Channel type (L=LTP, H=HTP, I=Instant LTP, S=16-bit instant LTP, s=16-bit Fadeable LTP ; 4. DMX offset (1...number of DMX channels) ; 5. The output level is proportionally reduced by this level (0..100%) ; 6. The curve number (applicable only to HTP channels), usually set to 1 7. Inverted (I) or Normal (N) ; 8. Attribute type (A=Colour Wheel 1, B=Cyan, C=Magenta, D=Yellow, E=Pan, F=Tilt, G=Iris, H=Dimmer, I=Gobo1, J=Gobo2, K=Gobo1 Rotate, ; L=Focus, M=Gobo2 Rotate, N=Colour Wheel 2, O=Shutter, P=Prism, ; Q=Zoom, R=Effect Rotate, S=Frost, T=Red, U=Green, V=Blue, 0=uncategorised) ; 9. Checksum channel (Always 1) ;10. Attribute name, must be enclosed in quotes and upto 12 characters allowed ;11. The ON value of this channel (0..255) ;12. The Highlight level of this channel ;13. The Lowlight level of this channel ; DMX 10 1 1 100 1NТ 1 "Red" 255 255 0 S 0 0 L 2 100 1N Т 1 "Red Low" 255 255 0 10 3 100 1N 1 "Green" 61 S U 255 255 0 4 1 255 0 0 L 100 1N U "Green Low" 255 0 "Blue" 9 ۷ 255 61 S 5 100 1N 1 0 230 0 0 6 100 1N V 1 "Blue Low" 255 0 230 L 9 1 7 100 1N 0 1 "White" 0 0 0 s 0 0 8 100 1N 0 "White Low" 0 0 0 L 1 4 1 Ι 9 100 1 "Colour Macro" 0 0 1N А 0 1 1 Н 100 1N 1 "Dimmer" 255 0 10 Н 0 0 0 11 100 1N Н 1 "Dimmer Low" 255 0 0 S 2 "Shutter" 61 L 12 100 1N 0 1 255 0 0 "Dim Spd" 8 L 13 1N 0 1 0 1 100 0 0 5 "Zoom" 1 Q 1 S 14 100 1N 127 0 0 "Zoom Low" 0 15 1 127 0 L 100 1N 0 0 0 END

You can easily find the two lines for the dimmer channels:

1	1	Н	10	100	1N	Н	1	"Dimmer"	255	0	Θ	
0	0	S	11	100	1N	Н	1	"Dimmer Low"	255	0	Θ	

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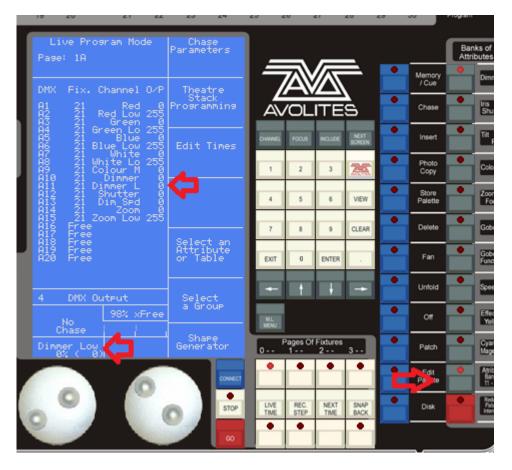
While the first line is absolutely okay the second line needs some tweaking: Nick Morris (the personality master) wrote about this

...just change Dimmer Low channel type to 8bit HTP (H), move Dimmer Low to an empty wheel slot (for example ... 11 1) and set Dimmer Low attribute type to uncategorised (0).

We change the second line so that it reads

	11	1	Н	11	100	1N	0	1	"Dimmer Low"	255	0	0	
--	----	---	---	----	-----	----	---	---	--------------	-----	---	---	--

Now having patched the edited personality the dimmer low channel is unaffected by the main dimmer attribute as it is in another category and on page 2:



(Frankly, when pressing clear, the wheel still shows a dimmer value of 0.3% – but if you check the DMX output you'll see it is 0. Chalk it up to another issue...)

8. Transfer R20 files into your console

The way how a personality file can be used very much depends from your console hardware and software. Usually the manual which came with the console should give you valuable hints. out of memory it is something along these lines:

• first and foremost: the old consoles use a disk drive in order to transfer data - the very first

consoles were restricted to 720k 3.5" floppies, newer ones could handle 1.44M. The 2008 series of consoles - Pearl 2008 and Pearl Tiger - also had USB fitted. However the USB drive needs to be FAT formatted, and iirc must not exceed 2GB in size.

- a starting point is to put the personality file into the root of the disk or USB drive, connect/insert this into the desk, and select it when patching. This may or may not work.
- For very first Pearls there was no other way than diskettes. This is why there are more than 100 personality disks listed to download at https://personalities.avolites.com/ (select Azure, Pearl and Sapphire as console type. Note that each disk contains also a file SG.DAT (the shape file) and a file SAPPRL.LST something like the inventory, just a list of fixtures and personalities which are on this disk. Personalities not in this file are not available for the console. There was a separate application INDEX.EXE which rebuilt this file.
- Next was the internal cache: consoles fitted with enough memory could hold the most often used personalities in their internal memory. In order to import personalities into this cache you needed to create a new cache file, and then import this into the console. There was a separate application Cache Builder (cb.exe) which let you select personalities and then compressed these into a new cache file.
- And then there are the 2008 series consoles: Pearl 2008 and Pearl Tiger. As stated above they can handle USB drives if they don't exceed 2GB in size. However it needs to be a special folder structure:

$\mathbf{\lambda}$	
\AVOLITES	
\FIXTURES	
\R2	0
	\(one folder per manufacturer, e.g.) ROBE (with all
the personalities in)	
	\SG.DAT (the shape file)

There is a separate application Copy 2008 available at www.avolites.com/software/downloads/pearl-2008-2010-tiger which creates this structure and adds

the shape file.

From: https://www.avosupport.de/wiki/ - **AVOSUPPORT**

Permanent link: https://www.avosupport.de/wiki/personality/create_r20_from_d4?rev=165398409



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