Logging Diagnostic Output from Vanity PRO

The diagnostic output will only function with special FW versions, clearly marked with "UART" suffix. The presence of diagnostic output is also shown in the Status screen of the unit.

SY	STEM	STA	rus)
POWER MAIN Voltage MAIN Current XD Voltage TX Voltage Staus Mode Frequency VCX0 XO Control Buffer HDMI FPGA DISPLAY	4.82V 543 mA 3.27V 3.27V RUN DSD 64× Hz 22.57Hz 1.635 33 % OK OK OK	HDMI RX Status Audio Mode Frequency ARC PRODUCT Vendor Model Serial No. HW Version SW System SW FPGA SW HDMI	: ACTIVE : ACTIVE : DSD : - kHz : DISABLED : Audiopraise : Vanity PRO : APVP0114 : 1 : 5.2.1_buf3_7 : 6 : 35A1 wel

The diagnostic data stream is sent from the VanityPRO via USB connection, which acts as a virtual COM port.

It is important, that the USB is connected only after the VanityPRO has been turned on and the home screen is shown on the display.



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Virtually any serial client/terminal can be used to connect to the USB serial port and establish logging of the stream. A popular client PuTTY will be shown here with its configuration. It can be downloaded from the Microsoft app store.

https://apps.microsoft.com/detail/XPFNZKSKLBP7RJ?hl=en-US&gl=US

In the initial screen the connection needs to be defined as **serial** and the correct port number needs to be specified. The COM port number can be found in the device manager. In the example below, the port is COM4 and the communication speed is **115200** bps.

🕵 PuTTY Configuration		?	×		
Category:					
	Basic options for your PuTTY session				
Environ Logging	Specify the destination you want to connect to				
Keyboard	COM4	Speed 115200			
Features	Connection type:				
Window Appearance	◯ SSH	net	\sim		
 Appearance Behaviour Translation Selection Colours Connection Data Proxy SSH Serial Telnet Rlogin SUPDUP 	Load, save or delete a stored session Saved Sessions Default Settings Close window on exit: O Always O Never O Only on	Load Save Delet	d e		
About Help	Open	Canc	el		

It is useful to change some text formatting settings, specifically **Implicit CR in every LF**, so every transaction is shown on a new line.

🕵 PuTTY Reconfiguration		?	×
Category:			
Session Connection Connection Serial	Options controlling the terminal emulation Set various terminal options Auto wrap mode initially on DEC Origin Mode initially on Implicit CR in every LF Implicit LF in every CR Use background colour to erase screen Enable blinking text Answerback to ^E: DUTTY		
	Line discipline options Local echo: Auto O Force on (Local line editing: Auto O Force on (Remote-controlled printing) Force off) Force off	
	Printer to send ANSI printer output to:		~
	Apply	Cance	el la

The last thing to setup is the logging output into a file. It is just a plain text file in printable format.

Session	Options controlling session logging		
 □ Logging □ Terminal □ Keyboard □ Bell □ Features □ Window □ Appearance □ Behaviour □ Translation □ Selection □ Colours □ Connection □ Serial 	Session logging: None Printable output Log file name: VanityPRO.log Browse (Log file name can contain &Y, &M, &D for date, &T for time, &H for host name, and &P for port number) What to do if the log file already exists: Always overwrite it Always append to the end of it Always append to the end of it Always append to the end of it Always log file frequently Flush log file frequently Include header		

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When the session is started, the terminal window shows the diagnostic data stream and if logging is enabled the stream should be directed into a text file. The logging should be left running for the necessary amount of time to cover all events for which the diagnostic logging is used.

PuTTY COM4 - PuTTY	_	\times
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-,57,S, ,0,0,507,		
-,57,S,>,0,0,507,		
-,56,S,<,0,0,507,		
-,57,S, ,0,0,507,		
-,56,S,<,0,0,507,		
-,57,S, ,0,0,507,		
-,57,S, ,0,0,507,		
-,57,S, ,0,0,507,		
-,57,S,>,0,0,507,		
-,56,S,<,0,0,507,		
-,57,S,>,0,0,507,		
-,56,S,<,0,0,507,		
-,57,S, ,0,0,507,		
-,56,S,<,0,0,507,		
-,57,S, ,0,0,507,		
		×