



UX BYOM Smart Switch

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Please read before proceeding.

Before proceeding with assembly, connection, and operation, please ensure that you read this document fully, and any additional documentation that may be included with the product.

Please keep this manual for future reference.

Important. Please read Section 1 Important Safety information

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1. Important Safety Information



PLEASE READ AND SAVE THIS INFORMATION

The following information and precautions should always be followed to reduce the risk of damage or injury. Please contact Ashton Bentley or your vendor if you have any questions regarding installation, operation, or maintenance.

- Follow all warnings and instructions in this document and marked on the equipment.
- Allow plenty of space in the construction area.
- It is important to avoid operating the system in outdoor or humid conditions and to prevent any liquid from entering.
- $\boldsymbol{\cdot}$ Always use suitable cable management or install cables under a raised floor to avoid trip hazards.
- · Do not block or cover any ventilation vents in the products.

UX Specific Safety Information

The first version of UX has been superseded by a new model. The optional PSU for each version cannot be interchanged. Using the incorrect PSU may cause damage to the UX and will invalidate the warranty.

Model 1-does not have Device Port LED Indicators and used an optional 5V PSU Model 2 (this document)-has 3 Device Port LED Indicators and uses an optional 24V PSU

Electrical

We recommend the use of a surge protector connected to the power input cable. Pay close attention to the product when it is turned on. If any of the following are noticed do not use the product until everything has been and checked and completely safe:

- Power cables, plugs, power supplies/adapters, extension cords, and surge protectors that are cracked, broken, or damaged
- Signs of overheating, smoke, sparks, or fire.
- Signs of liquid ingress or an object has fallen onto the electronic elements of the product, the power cable, or the power supply/adapter.
- If you notice these conditions with a product that is not supplied by Ashton Bentley, immediately disconnect from the Ashton Bentley product, and stop using that product until you can contact the manufacturer for further instructions, or until you get a suitable replacement.
- Never wrap a power cable around other objects.
- Always route power cables where they cannot be deemed a hazard. Do not use any power supply/adapter that shows signs of damage.
- The power cable and supply/adapter provided with this product are intended to be used with this product only. Do not use them with any other products. The use of 3rd party power supplies/ adaptors will invalidate the warranty.
- It is unsafe to use, disconnect cables, or perform maintenance during an electrical storm.

2. Product Components



2.A Box Contents.

UX BYC	DM Smart Switch Kit	900-00450
Qty	Box Contents	Part Number
1	UX BYOM Smart Switch Unit	
1	1.0m ABNET RJ45 Cat6 Cable	115-00107
1	0.5m USB 2.0 Cable (USB-A to USB-B)	115-00076
1	2.0m USB 2.0 Cable	115-00080
2	AB Knob (Female)	432-00008

2.B Optional Accessories.

If the UX is being used standalone or if the connected devices require additional power, the following optional power supply can be used.

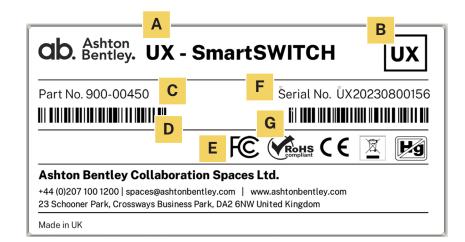
TX2 USB-C Charging PSU (100W) (This PSU is compatible with the UX for external power) 900-00585

2.C Shipping Weights & Dimensions.

Shipping Weight: Dimensions (mm): 0.55Kg (L) 245 x (W) 160 x (H) 90

2.D Box Labels.

The product is supplied in one or more boxes. Please ensure you have all boxes as listed below. Please inform your vendor immediately if any boxes are damaged, or contents missing.



A: Product description. B: Carton ID. C: Part number. D: Part number barcode. E: Compliance & Conformity. F: Unit serial number. G: Unit serial number barcode

3. UX BYOM Smart Switch



3.A Overview.

The UX BYOM Smart Switch is an intelligent USB switch/hub which allows the switching of USB peripherals between a room PC/NUC and a laptop.

The UX has:

• 2 host ports to connect to laptop/room PC

• 3 device ports for connecting speaker bars, cameras etc.

Designed to partner the Ashton Bentley Interconnect Kit (DX2 Room Hub + TX2 Table Hub).

Two modes of operation:

Control.

The DX2 switches USB devices away from Room PC/NUC to the laptop. In this mode the UX is powered from the DX2 via the ABNET connection.

Standalone.

When a laptop USB connection is detected, the USB devices are automatically switched from Room PC/NUC to the laptop. When the laptop is disconnected, the devices switch back to the room PC. In this mode the UX requires a separate PSU.

3.B Dynamic USB 3.0 5V power switching.

Why is USB power switching/control important?

Some Videobars can only switch in and out of device mode if 5v is present in the USB connection.

Most 3rd party USB hubs permanently power the USB sockets when a power supply is attached, and so the Videobar 'remains' in device mode and many fail to detect when a new laptop is connected.

With our dynamic 5v switching, when the UX switches host, the 5v on the USB device ports are automatically turned off momentarily allowing the Videobar to revert to 'normal' mode.

This unique feature prevents devices locking up or going into 'device mode' when they should not.





LED	Colour	Function
Device Ports 1, 2 & 3	Blue	Lit = Device port USB 5v active.
A SLCT	Green	Lit = Host selected. Flashing = Host connected but not selected.
B SLCT	Green	Lit = Host selected. Flashing = Host connected but not selected.
PWR	Red	Lit = Unit powered.

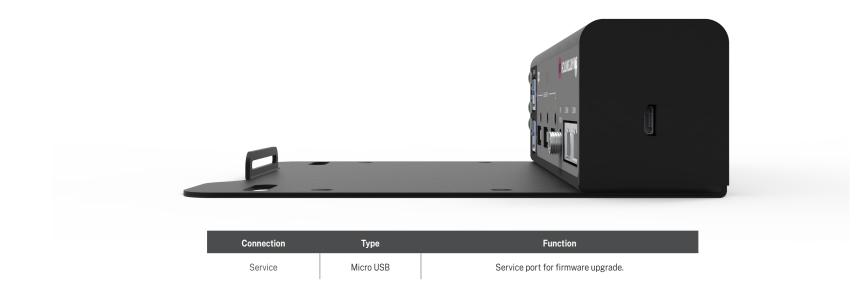
Connection	Туре	Function					
ABNET 1	RJ45	Control bus. Connection to DX2.					
ABNET 2	RJ45	Control bus. Loop on to additional ABNET devices. Optional local power supply.					
Local 24v*	DC power jack						
Device Ports 1, 2 & 3	USB-A	USB connections for Video bar, camera, loudspeaker and mic.					
USB Host A	USB-B	USB from Laptop / Room PC					
USB Host B	USB-B	USB from Laptop / Room PC					

*Note: Previous version of the UX had an optional 5v PSU. This earlier version can be identified by the absence of the 3 Device Port LED indicators.

Do not connect the new 24v PSU to the previous version, or the older 5v PSU to the new version of UX.

Please read the legend for the local power connection and match to an appropriate power supply.

Using an incorrect Power Supply will invalidate the warranty.



4. Setup & Initial Power Up



4.A Setup.

Standalone Mode

The UX is fully configured and ready to use out of the box. There are no additional drivers and/ or configuration required prior to use.

Once the UX, and peripherals, are connected and powered up, the system is fully operational.

Control Mode

If the UX is being used in conjunction with a TX2 Table Hub & DX2 Room Hub, then the DX2 must be configured correctly. See section 6 for information.

4.B Pre power up checks.

Before powering up the system please ensure that the system is completely assembled and that the wiring is correct.

For connection details please refer to Section 5 if using the UX in Standalone mode, or Section 6 if using the UX in Control mode with a TX2 / DX2.

Refer to Section 7 for trouble shooting tips.

5. Standalone Mode



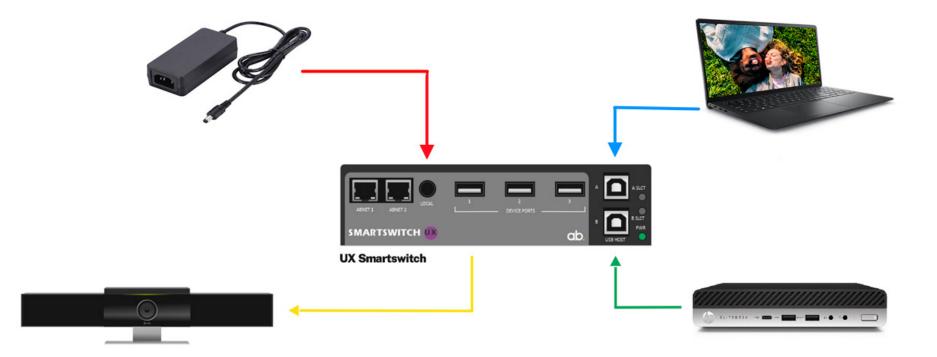
5.A Standalone Mode.

If used in Standalone mode (without a TX2 / DX2) you will require the optional power supply (part no. 900-00585) to power the UX.

There is no configuration required for this mode of operation.

When laptop USB connection is detected by the UX the USB devices are automatically switched from Room PC/NUC to the laptop. When the laptop is disconnected, the devices switch back to the room PC.

When the UX is switching between hosts, the USB power to the device ports will turn off momentarily, in order to ensure the connected devices initialize correctly with the new host.



6. Control Mode with DX2 Room Hub



6.A ABNET & USB Connections.



1.0m ABNET RJ45 Cat6 Cable DX2 ABNET port to UX ABNET port 1 or 2 The UX receives power over this connection from the DX2



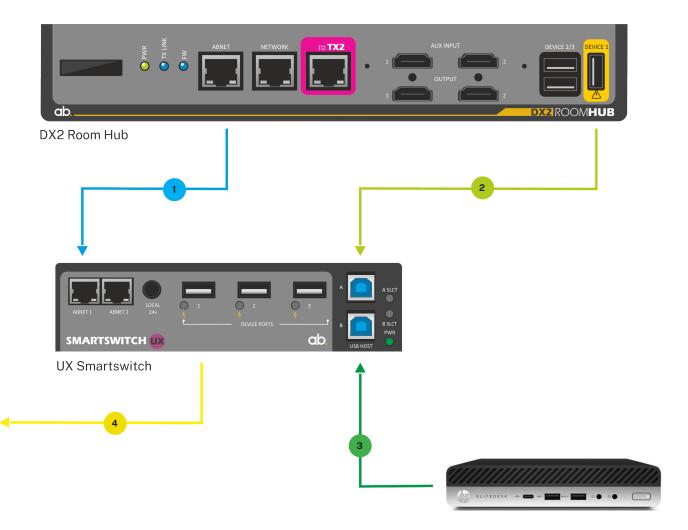
0.5m USB 2.0 Cable (USB-A to USB-B) DX2 DEVICE port 1 to UX USB-HOST port A DO NOT use DEVICE port 2 or 3 on the DX2.

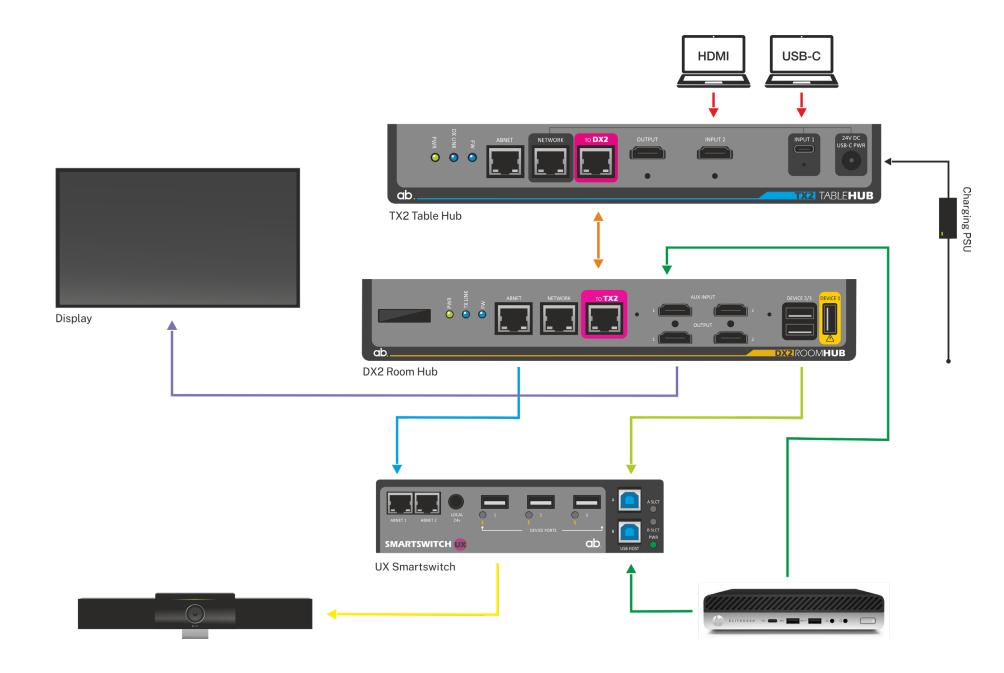


4

2.0m USB 2.0 Cable UX USB HOST port B to the Room PC

Long USB 2.0 cable (supplied with the camera bar) UX any DEVICE PORT to the videobar





6.C System Setup.

Introduction

You must set up the DX2 & TX2 before installing in a system.

Access the System Configuration tool in the DX2:

Connect DX2 to TX2 using supplied 10m CAT7 cable Connect the DX2 PSU, and power the system Connect a laptop to NETWORK port on DX2

The default IP address of the DX2 is 169.254.186.26.

Most laptops configured for DHCP should connect to this address without changes to the network config. If not, then set your laptop into the same IP address range.

DX2 IP address is also shown on the small OLED display.

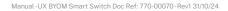
If you can ping the DX2 but not connect to it, check the firewall settings.

NOTE: The network port on the TX2 only connects to the USB-C cable and cannot be used to configure the system.





Default Username: admin Default Password: admin



6.D. TX2 / DX2 Settings. 6.D.1 TX2/DX2 Inputs - EDID.

Getting the correct EDID sometimes requires a little experimentation, however we recommend using the "05 Copy from DX2 Display 1" setting. This will copy the EDID from the display to each of the inputs. When the EDID settings are changed, the word "Success" should appear at the top of the screen.

		ab.	Settings	Mode Set-up	Manual N Control	etwork	System	
Display Ty	/pe		Codec Control		Scaler			HDCP
Display 1	AB-LG	~	Device Video E	Bars (all) 🗸 🗸	TX2 Outp	ut 🔿 Off	🖲 On	Input 1 USB-C 💿 Off 🔵 On
0.000	40.10				DX2 Output	1 O Off) On	Input 2 HDMI 💿 Off 🔵 On
Display 2	AB-LG	~	CEC Control		DX2 Output	2 () Off	🖲 On	Auxiliary 1 💿 Off 🔵 On
				● Off ◯ On				Auxiliary 2 💿 Off 🔵 On
FX2 Inputs	s Auto Switch	O Off	kes precedence		DX2 Inputs Auxiliary	Auxiliary 1 1 Auto Switch	-	
		O HDMI tak	kes precedence kes precedence nected takes preceden	nce	A	uxiliary 1 EDID Auxiliary 2		
	Input 1 USB-C EDID	05 Copy from	m DX2 display1		Auxiliary	2 Auto Switch		
	Input 2 HDMI EDID	05 Copy from	m DX2 display1	~	A	uxiliary 2 EDID	03 4K@60Hz 4:4	I:4, Audio 2CH PCM 🔗
I						Auto Switch	 Auxiliaries take Auxiliary 1 take 	edence over Auxiliaries es precedence over TX2 es precedence over Auxiliary 2 es precedence over Auxiliary 1
Control Bu	uttons							
Butt	ion 1	But	tton 2	Button	3	Buttor	n 4	Button 5

6.D.2 DX2 Inputs – Auto switching.

To ensure that the system automatically switches to the correct input at the correct time, make sure that:

- DX2 Inputs Auxiliary 1 set to 'On' and Auxiliary 1 Auto Switch is set to 'On'
- Auto Switch-select 'TX2 takes precedence over Auxiliaries"

ab.	Settings	Mode Set-up	Manual Control	Network	System				C	Log Out	\supset
Display Type		Codec C	ontrol		Scaler				HDCP		
Display 1 A	B 21:9	~ Device	Video Bars (all)	~	TX2 Output	O Off	🖲 On		Input 1 USB-C	 Off 	O On
Display 2 A	B-LG				DX2 Output 1	O Off	🖲 On		Input 2 HDMI	• Off	O On
Display 2 At	D-LG	CEC Cor	ntrol		DX2 Output 2	O Off	🖲 On		Auxiliary 1	 Off 	O On
			ontrol 💿 Off	O On					Auxiliary 2	 Off 	O On
X2 Inputs					DX2 Inputs						
	Auto Switch	O Off			Auxiliary 1 Au	Auxiliary 1	O Off O Off	OnOn			
	O USB-C takes precedence					ary 1 EDID	-		Audio 2CH PCM		
		 HDMI takes preceden Last connected takes 									
Inp	out 1 USB-C EDID	05 Copy from DX2 displa	y1 ~		Auxiliary 2 Au	Auxiliary 2	OffOff	 On On 			
						ary 2 EDID			Audio 2CH PCM		
Inj	put 2 HDMI EDID	05 Copy from DX2 displa	y1 ~								
					Au	uto Switch			edence over Auxiliarie es precedence over TX		
							 Auxi 	iliary 1 take	es precedence over Au	ixiliary 2	
							O Aux	iliary 2 take	es precedence over Au	ixiliary 1	
Control Buttor	ns										
TX2											
Button 1		Button 2		Button 3		Button	4		Button	5	
			~	Auxiliary 1		Aux			Off		

6.D.3 CEC.

The DX2 can control a connected display using CEC (Consumer Electronics Control). The reliability of this varies between different displays of different ages and manufacturers. If not required, turn CEC off.

ab. sett	ings Mode Set-up	Manual Control	Network	System				og Out	\supset
Display Type Display 1 AB 21:9 Display 2 AB-LG	Codec C Device	Video Bars (all)) On	Scaler TX2 Output O Off DX2 Output 1 O Off DX2 Output 2 O Off	 On On On 		Input 2 HDMI Auxiliary 1	 Off Off Off Off Off 	 On On On On
TX2 Inputs Auto Switc Input 1 USB-C EDI Input 2 HDMI EDI	 USB-C takes precede HDMI takes preceder Last connected takes D 05 Copy from DX2 display 	ay1 v		DX2 Inputs Auxiliary Auxiliary 1 Auto Swite Auxiliary 1 EDI Auxiliary Auxiliary 2 Auto Swite Auxiliary 2 EDI Auto Swite	ch O Off D 00 108/ 2 O Off ch • Off D 00 108/ ch • Off D 00 108/ Ch • Off O 00 108/ Ch • Off O Auxill • Auxill • Auxill	On On On On Op@60Hz, At takes precedu iaries takes p iary 1 takes p	udio 2CH PCM vidio 2CH PCM ence over Auxiliaries precedence over Auxi precedence over Auxi precedence over Auxi		
Control Buttons TX2 Button 1 USB-C Laptop ~	Button 2 HDMI Laptoj		Button 3 Auxiliary 1		on 4 uxiliary 2	~	Button 5 Off		~

6.D.4 Mode Set-Up.

On the 'Mode Set-up' page there is a sub-page for each system 'mode' which are: 4 physical inputs + Virtual video conferencing mode + System Off

Video routing together with USB port power (Hot plug detect control), UX Control and Display Control can be set here for each Mode and hence each input. The default set-up should work, however check settings as shown on the following pages.

ab.	Settings	Mode Set-up	Manual Ne Control	etwork	System				og Out
	Input 1 U	JSB-C Input 2	HDMI Auxiliar	ry 1	Auxiliary 2	Video	Conference Sys	tem Off	
Display Control			Matrix				UX Control (Extern	al Device on ABN	IET)
Display 1 Input	HDMI 1	Ŷ	TX2 HDMI Ro	outing	SB-C	~	Port Power	On	~
Display 2 Input	HDMI 1		TX2 to DX2 Ro	outing	SB-C	~	Host Select	A	~
Display 1 Power	On	~	DX2 Output 1 Ro	outing T	X2	\sim	Toggle Power	Yes	~
Display 2 Power	On	~	DX2 Output 2 Ro	outing T	X2	~			
odec Control							DX2 USB Hub		
Codec Control Hang Up	No	~	Sleep Codec	No	×		DX2 USB Hub Port Power	On	×.
	No Yes	~	Sleep Codec Codec Mute On	No	~ ~			On No	× ×
					× × ×		Port Power		~ ~
Hang Up Wake Codec	Yes	~	Codec Mute On	No	× × ×		Port Power		× ×

ab.	Settings	Mode Set-up	Manual Ne Control	twork System			Log Out	
	Input 1 U	JSB-C Input 2	2 HDMI Auxiliar	y 1 Auxiliary 2	Video Co	nference Sys	stem Off	
Display Control			Matrix			UX Control (Extern	nal Device on ABNET)	
Display 1 Input	HDMI 1	~	TX2 HDMI Ro	USB-C	~	Port Power	On 🗸	
Display 2 Input	HDMI 1	~	TX2 to DX2 Ro	USB-C	~	Host Select	A ~	UX control (External Device on ABNET)
Display 1 Power	On	~	DX2 Output 1 Ro	TX2	×	Toggle Power	Yes	Port Power: On Host Select: A
Display 2 Power	On		DX2 Output 2 Ro	outing TX2	~			Toggle Power: Yes
Codec Control						DX2 USB Hub		
Hang Up	No	~	Sleep Codec	No	~	Port Power	On 🗸	DX2 USB Hub
Wake Codec	Yes	~	Codec Mute On	No		Toggle Power	No	Port Power: On
Send VC Pres	Yes	~	Codec Mute Off	No				Toggle Power: No
Stop VC Pres	No	~			L			
				Save				If any changes are made, don't forget to push the 'Save' button
								Torget to push the Save Dutton

6.D.6 Input 2 HDMI.

For Input 2 HDMI mode the UX control settings are set the same as Auxiliary 1. This means that when a laptop is connected to the HDMI input on the TX2 the Poly Studio will remain connected to the PC. In this instance 'Toggle Power' should be set to 'No'

ab.	Settings	Mode Set-up	Manual Ne Control	twork System			\subset	Log Out	
	Input 1	USB-C Input 2	HDMI Auxilian	y 1 Auxiliary 2	Video	o Conference Sys	tem Off		
Display Control			Matrix			UX Control (Extern	al Device on Al	BNET)	
Display 1 Input	HDMI 1	~	TX2 HDMI Ro	uting No Change		Port Power	On	~	
Display 2 Input	HDMI 1	×	TX2 to DX2 Ro	uting No Change	~	Host Select	В	~	UX control (External Device on ABNET)
Display 1 Power	On	\sim	DX2 Output 1 Ro	uting Auxiliary 1	~	Toggle Power	Yes	~	Port Power: On Host Select: B
Display 2 Power	On	×	DX2 Output 2 Ro	uting Auxiliary 2	~				Toggle Power: No
Codec Control						DX2 USB Hub			
Hang Up	No	× .	Sleep Codec	No	~	Port Power	Off	~	DX2 USB Hub
Wake Codec	Yes	~	Codec Mute On	No	~	Toggle Power	No	~	Port Power: Off
Send VC Pres	Yes	×.	Codec Mute Off	No	×				Toggle Power: No
Stop VC Pres	No	~							
				Save					
									If any changes are made, don't forget to push the 'Save' button

6.D.7 Auxiliary 1.

The Auxiliary settings are a little different to the USB-C settings as detailed below:

ab.	Settings	Mode Set-up	Manual Ne Control	etwork	System			C	Log Out	
	Input 1	USB-C Input	2 HDMI Auxilia	ry 1	Auxiliary 2	Video	Conference Sys	tem Off		
Display Control			Matrix				UX Control (Extern	al Device on A	BNET)	
Display 1 Input	HDMI 1	~	TX2 HDMI R	outing	No Change	~	Port Power	On	~	
Display 2 Input	HDMI 1	×	TX2 to DX2 Re	outing	No Change	~	Host Select	В	~	UX control (External Device on ABNET)
Display 1 Power	On	~	DX2 Output 1 Re	outing	Auxiliary 1	\sim	Toggle Power	Yes	~	Port Power: On Host Select: B
Display 2 Power	On	×	DX2 Output 2 Re	outing	Auxiliary 2	~				Toggle Power: Yes
Codec Control							DX2 USB Hub			
Hang Up	No	~	Sleep Codec	No	~		Port Power	Off	×.	DX2 USB Hub
Wake Codec	Yes	~	Codec Mute On	No	~		Toggle Power	No	~	Port Power: Off
Send VC Pres	Yes	×	Codec Mute Off	No	×					Toggle Power: No
Stop VC Pres	No	~					L			
					Save					
										If any changes are made, don't forget to push the 'Save' button

6.D.8 System Off.

In the Off mode we've set the UX port power to off, this will disconnect the Poly Studio bar from the system when the PC goes to sleep. This should ensure that the Poly correctly enumerates when the system switches back on again.

Display 2 Input No Change → Dt 2 HMI Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2 to Dt 2 to Dt 2 Routing Off → → Dt 2 to Dt 2		Input 1 USB-C	C Input 2 H	IDMI Auxiliary	1 Auxiliary 2	2 Video	o Conference Sys	tem Off		
Display 2 Input No Change Display 1 Power Off Off Ottoput 1 Routing Display 2 Power Off Off Ottoput 2 Routing Off Display 2 Power Off Off Ottoput 2 Routing Off Display 2 Power No Off Display 2 Power Off Display 2 Power Off Display 2 Power No Off Display 2 Power No Off Display 2 Power No Display 2 Power No Display 2 Power Off Display 2 Power No Display 2	Display Control			Matrix			UX Control (Extern	nal Device on AB	NET)	
Display 2 mput No Change No	Display 1 Input	No Change	~	TX2 HDMI Rout	ting Off	~	Port Power	Off	~	
Display 1 Power Off Display 2 Power Off Off DX2 Output 1 Routing DX2 Output 2 Routing Off DY2 USB Hub DY2 USB Hub Port Power Off Vake Codec No No Codec Mute Off No Codec Mute Off No Codec Mute Off	Display 2 Input	No Change	~	TX2 to DX2 Rout	ting Off	~	Host Select	В	~	UX control (External Device on ABNET)
Display 2 Power Off DX2 Output 2 Routing Off Toggle Power: Yes Tog	Display 1 Power	Off	~	DX2 Output 1 Rout	ting Off	~	Toggle Power	Yes	~	Port Power: On
Hang Up Yes Sleep Codec Yes Port Power Off DX2 USB Hub Wake Codec No Codec Mute On No Toggle Power No Port Power Off DX2 USB Hub Send VC Pres No Codec Mute Off No No Image: Codec Mute Off No Image: Codec Mute Off DX2 USB Hub	Display 2 Power	Off	~	DX2 Output 2 Rout	ting Off	~				
Wake Codec No Toggle Power No DX2 USB Hub Wake Codec No Codec Mute On No Toggle Power No Port Power: Off Toggle Power: No										
Wake Codec No Codec Mute On No Toggle Power No Port Power: Off Toggle Power: No Send VC Pres No Codec Mute Off No No Image: Codec Mute Off Toggle Power: No Image: Codec Mute Off Tog	odec Control						DX2 USB Hub			
Send VC Pres No V Codec Mute Off No V		Yes	~	Sleep Codec	Yes	~		Off	~	DY2 LISB Hub
Stop VC Pres Yes 🗸	Hang Up		~			×	Port Power		~	
	Hang Up Wake Codec	No	~	Codec Mute On	No	~ ~	Port Power		~	Port Power: Off
	Hang Up Wake Codec Send VC Pres	No	* * *	Codec Mute On	No	× *	Port Power		~	Port Power: Off

6.D.9 In Summary: PC is awake.

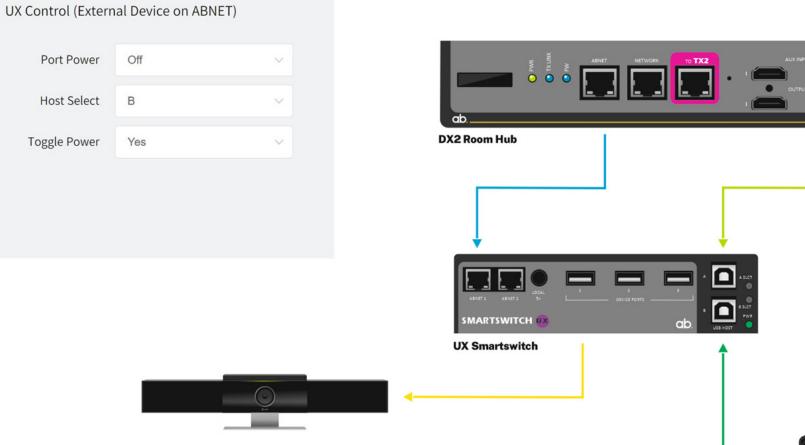
When the PC is awake, and there is no laptop connected to the TX2, the Poly studio is routed to the PC via host port 'B' on the UX Smart Switch. UX port power is on. Video is routed from the PC to Aux 1 in the DX2 and then to output 1.

UX Control (Externa	al Device on ABNET)	_	
Port Power	On v	● PAR	
Host Select	Α ~	ab	
Toggle Power	Yes 🗸	DX2 Room Hub	
			 ↓ I I I I I I I I I I I I I I I I I I I
			A ASCT A ASCT
		UX Smartswitch	1
		<	

DX2 ROOMHU

6.D.9 In Summary: laptop is disconnected.

When the laptop is disconnected, the UX will automatically flip the Poly Studio back to the PC if it is awake.





DX2 ROOMHUB

6.D.9 In Summary: PC goes to sleep.

When the PC goes to sleep, the system will turn off. The UX port power will then turn off and this disconnects the Poly Studio from the PC.

UX Control (Extern	nal Device on ABN	NET)		
Port Power	Off	~		WORK TO TX2
Host Select	В	~		
Toggle Power	Yes	~	DX2 Room Hub	
				Ţ
			UX Smartswitch	Ť

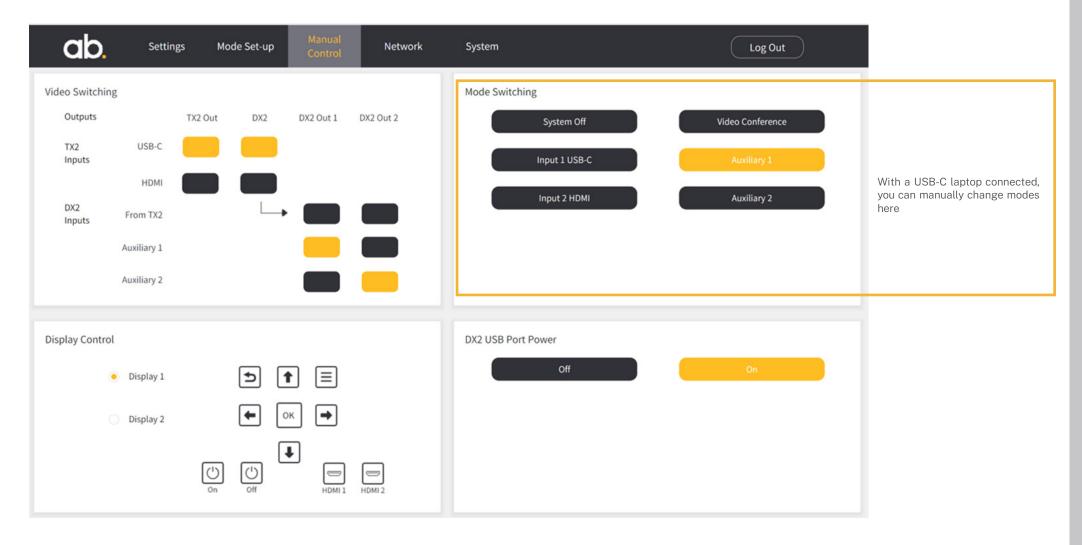


DX2 ROOM HU:

6.D.10 Manual Control / Testing.

The Manual Control Tab on the DX2 web interface allows testing and diagnostics.

Pushing the mode switching buttons will force the system into the various modes even if there is nothing connected to the inputs. If you observe the LED indicators on the top of the UX when you switch modes, you should see the LEDs change on the UX according to the settings.



7. Troubleshooting



7.A: Troubleshooting.

Device not connecting:

Check that a host PC/laptop is connected to the correct Host port on the UX. The currently active Host port will have a green LED indicator. There is a power LED indicator next to the Device ports, this should also be green. If using the TX2/DX2 check that the cable between the UX and the DX2 is connected to Device port 1 on the DX2, and Host port A on the UX. If the power indicator is not green check the UX settings in the DX2 System Configuration tool..

UX does not switch:

Check that the UX is connected correctly. Then using the DX2 System Configuration tool: • Check settings for each of the Modes

• Using 'Manul Control' switch between Modes

If this is all correct and the UX is not responding, the UX may require a firmware upgrade.

UX reboots during a switch:

All the LEDs going out during the switch which causes inconsistent behavior. This is due to too much current draw on the UX Device ports, easily remedied by connecting the optional external PSU to the UX.

It is important that the correct PSU is used with each model of UX. The earlier hardware versions (without the power LED indicators on the Device ports) used a 5V power supply. The latest UX uses a 24V power supply.

The voltage is clearly marked on the UX next to the connector. Ensure that the correct power supply, either 5V or 24V is used, no other voltage should be used. We recommend a minimum of 1A. If in doubt, contact Ashton Bentley support. Note that connecting an incorrect power supply will cause significant damage to both the UX and any connected devices, and invalidates the warranty.

USB Limitations (Tiers):

There is a limit to the number of devices that can be daisy chained (tiered) together to build a system. This limit is 7 including the Host and devices themselves. Some USB devices have hubs built in which count as an additional tier. The TX2/DX2 consumes one tier, and the UX is another. Some USB extension devices add multiple tiers. If the number of tiers goes above 7, the system will not work. The only way to resolve this is to reduce the number of tiers.

How to troubleshoot issues with the UX:

1) Connect a laptop directly to the active Host port on the UX and a USB device to the UX device port. The device should be seen by the laptop. If not, check the device is powered correctly then connect directly to the laptop and see if this works.

2) If using the TX2/DX2 try connecting the device directly to Device port 2 or 3 on the TX2. If this does not work, check the device is powered correctly and the laptop is connected correctly to the TX2 via an Ashton Bentley USB-C cable.

3) The UX is controlled by the DX2 so it's vital that the DX2 is set up correctly. Check the DX2 Mode settings and with a laptop connected to the TX2, and a host directly connected to the UX, test the set-up by selecting the Modes on the DX2 'Manual Control' page in the System Configuration tool.

4) A very useful software tool for testing USB set-ups is Uwe Sieber 'USB Device Tree Viewer' which is available from: https://www.uwe-sieber.de/usbtreeview_e.html

Any other issues: Please email support@ashtonbentley.com

8. Technical Data



8.A UX Specification.

ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Inputs	2 x USB-B Hosts 1 x 24v DC Jack 2 x ABNET control ports
Outputs	3 x USB-A Ports [With 5v power switching] — Max 5v @ 0.9A per port — Max 1.2A in total unless using option external DC power supply.
Housing:	Metal Enclosure
Color:	Black
Shipping Weight	0.5Kg,
Dimensions	See Mechanical Dimensions (Pg22)
Power Supply	Over ABNET from DX2, or via optional PSU
Power Consumption	3W (excluding connected USB devices)
Operating Temperature	32-104°F/0-40°C
Storage Temperature	-4-140°F/-20-60°C
Relative Humidity	20-90% RH (no condensation)

8.B UX Dimensions



The UX unit is housed on a standard Ashton Bentley back plate for mounting under furniture or inside cabinets.

9. Environmental Policy



Environmental Policy.

Through careful design and selection of materials, Ashton Bentley is committed to designing and manufacturing products that minimise the effect on the environment.

Materials and Manufacture

All Ashton Bentley products are manufactured primarily from natural base metals with a minimum number of treatments and finishes applied. This product design, with a view to managing the future recycling process, allows most product components to easily be disassembled, recycled and re-used without the use of specialist equipment.

Ashton Bentley products are on average made from >98% recyclable materials. Ashton Bentley continue to develop design and manufacturing processes that minimise raw materials used whilst endeavoring to increase the percentage of materials that can be easily recycled and re-used.

Packaging

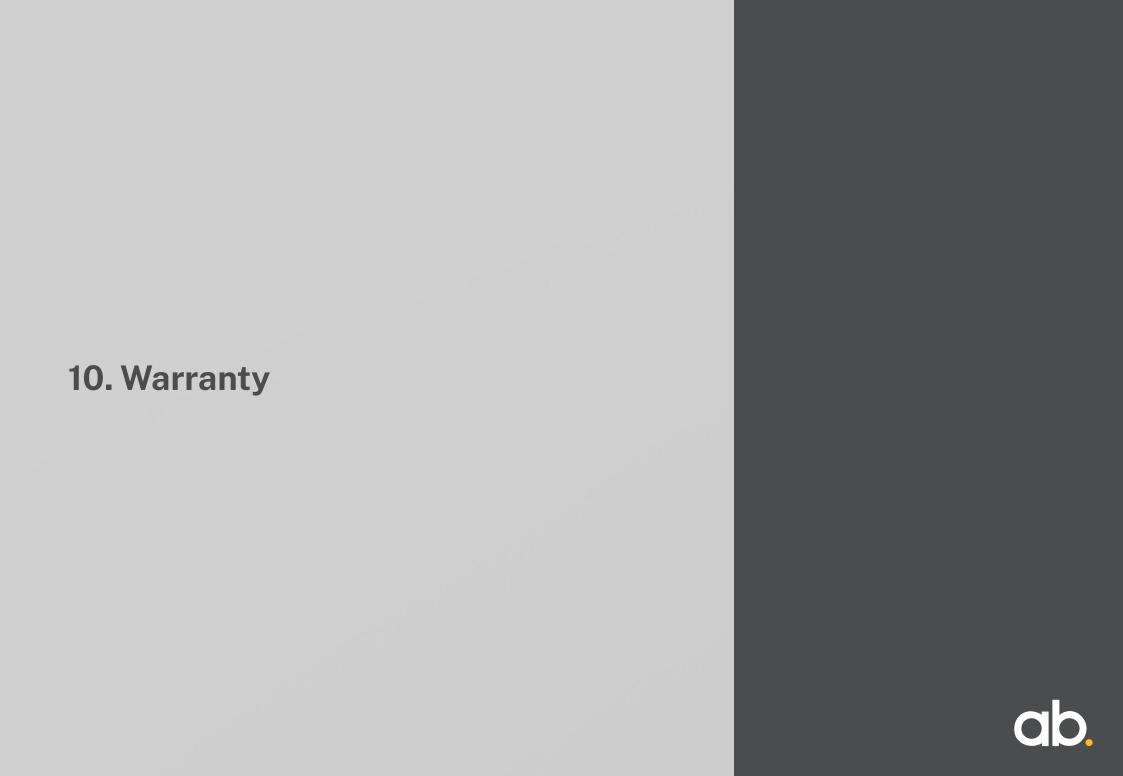
Ashton Bentley packaging has been designed to use the minimum amount of material required to provide protection of the product during transport and shipping.

Where possible we have used recycled materials and all parts of our product packaging can be easily recycled or retained for future use.

Recycling Ashton Bentley

All Ashton Bentley products have been designed to provide many years of trouble-free service, however, when the time comes to dispose of your system, Ashton Bentley offer a fully inclusive program under the European WEEE directive 2012/19/EU and its subsequent amendments.





Warranty Overview.

All Ashton Bentley products are designed and manufactured to the highest possible standards providing customers with many years of trouble-free service.

Our aim is to provide high-quality, low-cost solutions that can be used and managed day-to-day with the minimum effort.

Because things do occasionally go wrong Ashton Bentley warrants that its products shall conform to the applicable published and/or agreed upon operational specifications and shall be free from defects in material, workmanship, and functionality for a period of 3 years after the date of purchase.

This warranty cover provides:

· 3 Years - Return to Base. Repair or Replace

The warranty services will be managed and provided by an Ashton Bentley approved service partner who is fully supported by Ashton Bentley.

Return to Base. Return And Repair

Our warranty provides "Return to Base cover for a period of three years from the date of purchase. Any system, or part of a system, identified as faulty will be repaired or replaced at our UK facility or by our local service partner from whom the system was purchased.

No charge will be made for this repair or replacement providing that the faulty system/ component be correctly packaged and returned.

Our warranty is intended to provide customers with a transparent repair or replacement service if things go wrong, however, please note that our warranty does not include the following:

• Cosmetic damage where it does not affect the operation or safety of the product.

· Charges for repairs undertaken by any other party.

• The cost of repairing or replacing a product which fails because anyone neglects, abuses, or misuses the product.

• In operability of a product caused by the failure of services provided by a third party

 $\boldsymbol{\cdot}$ Theft or any loss suffered if you cannot use the product or any loss other than repair or replacement.

Where items have been returned to us and are found to have been subject to any of the above, we reserve the right to charge for the repair or replacement and all costs incurred to return the item.

Note: Any repaired or replaced product shall not extend the originally established warranty period. This express warranty relates to the original end-user purchasing the product and is not assignable or transferable to any other party or subsequent purchasers, unless otherwise agreed in writing by Ashton Bentley. The terms of Ashton Bentley "Total Cover Warranty" do not affect your statutory rights, the right to charge for the carriage, appropriate repair and testing or a replacement unit.

Process:

1. When a unit is purchased the customer, or the service partner on behalf of the customer, will complete the Ashton Bentley warranty registration documentation and forward this by e-mail to Ashton Bentley in the UK.

2. Should a fault occur you simply report the fault to Ashton Bentley or your local service partner from whom the unit was purchased giving them your product registration details. The service partner will then contact you to gain as much information about the nature of the fault as they can and facilitate a resolution remotely if possible.

3. Should that not be possible the faulty system or component will be identified, and you are requested to suitably pack and return the faulty system or component back to Ashton Bentley facility in the UK or your local service partner at your cost.

4. On receipt, the unit will be inspected, and we will either carry out a repair or supply a replacement and return to the service partner or to the site.

5. Return carriage costs will be covered by Ashton Bentley however any local import duties/ taxes will be your responsibility.



Want to know more?

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Illustrations in this document might look different from your product Content is subject to change without notice 3rd party manufacturiers may make periodic changes to the operational behavior and featu of their product(s) Please refer to their resources for the latest information.