AOK UI INTRUCTION for HX-P160

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HMDX Geo

HX-P160

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Change History

Issue	Date	Handle by	Comments
00	November-4-2015	Mir xie	First rdease

1. Product setting: buttons, LEDs, Audio sources

2.1 Buttons and switches and Touch, the systems have below buttons:

Button Power button, MFB, Vol+, Vol- button

2.2 Connection of Power and audio system, the system has the following connection:

Power port	In	DC jack
Power port	Out	USB out for charging

2.3 Button press Type and Duration. The following table describes how the buttons react and describes timing constraints

Button pressing time		
Press type	Duration(Seconds)	
Short press	X<0.5	
Long press	2 <x<3< td=""></x<3<>	
Press & hold	-	

2.4 Feature List

#	Category	Feature	Valu e
1	Out of the Box/ After	Total volume level	16 steps
	Factory Reset	Default volume level	10 steps (equal to 60% volume)
		Default audio source	вт,
		Duration for volume to change from min to max	<16 seconds
		Remember previous audio source	NO
		Remember previous connected BT devices	Yes, If Aux is not connected, always reconnect

			and has been according to
			with last device which connected during power
			up
		Remember previous volume level	Yes (only if volume < 60%, use previous volume,
			eke use 60%) memory in a 10%70% volume,
			other reco very to default 60 % volume
2	Power mode	Supports Battery Mode?	Yes
		Charging hour	Within 2 hours
		Playback hour	4 hours at 70% volume
		AC Mode	No
		External charging sourcing	NO
3	Battery mode	Battery management	i. Healthy: X > 10%
			ii. Low: 5% < X≤ 10%
			- Low battery indication available (Red LED
			flashing warning)
			-when X>95% charging Red LED off
			iii. Critical: X = 5%
			- DUT off.
4	Connection	Audio input	BT audio
		Audio output	No
		Physical button for audio switch	No special button available
		Auto audio switch feature	BT audio.
5	ERP(Energy related	Auto Standby	Yes
	product) compliance	Auto Standby Duration	Without BT connection, after 2 minutes ,it will
			shut off .
			BT connection, but don't play, after 15 minutes, it
			will shut off.
		Power consumption to meet ERP	<0.3W
		Auto shutoff without paired	2 minutes
6	Reset	Factory Reset	Not
		Hardware Reset	Yes
7	Bluetooth connectivity	Bluetooth naming	HMDX Geo
		Wireless range	10 m
		Supported audio codec	SBC
		Supported profiles	A2DP, AVRCP so on
		# of supported device in pairing list	1 paired device recorded
		Supports Dual devices	NO
		Volumesync	Synchronize volume w ith iOS
		BT Pairing duration	Within 1 minutes
		BT Recomed duration	Power up = 10sec
		2	Link lost = 10sec
		RT reconnect method (single devices or all devices)	
		BT reconnect method (single device or all devices)	Power up = attempt reconnect to same device.
			Link lost = attempt reconnect to same device
			twice, each time for 10 seconds

8	PC compatibility	Windows version	No information
		Mac version	MacBook (Pro, Air) with OS X 10.8.2 or later
9	Phone device	Phone model with OS version	iPod touch (2-5 Gen), iPod Nano (7 Gen),
	compatibility		iPhone (6,5, 4s, 4, 3Gs, 3G), iPad (1, 2, 3, 4,
			mini 1, 2),

$2.5 \,\, \text{Audio source, Available audio source Input:}$

;	#	Audio input	Image
	1	Bluetooth	*

2.6 Available Audio Source Output: No audio output

Sequence & Priority

The audio source switch command shall allow DUT to switch sources using the following priority and sequence:

Priority	Audio input	Sequence	Default	Manual/Automatic
				switch
1	Bluetooth	BT is 1st	Speaker, is default	NA

2. SYSTEM FEEDBACK

3.1 The system has the following indicators, list of Audio Indications. (Prompt tone)

#	Indicator	Description	File Name
1	Power on	Hold down the power button 3 seconds	Provide by HMDX
2	Power down	Hold down the power button 3 seconds	Provide by HMDX
3	Auto power off	No Bluetooth connection and Audio input	Provide by HMDX
4	Low battery warning	The batter low 3.5 Volts	No
5	BT Pairing started	Blue LED flashing	Provide by HMDX
6	BT pairing successfully	BT quickly flash 5s onece	Provided by HMDX
7	BT pairing timeout	Blue LED flashing	No
8	BT disconnect manually	After pressing Vol+ button and Vol- button 5	Provided by HMDX
		seconds, then enter into paring status	
9	BT disconnect – link lost	Entering into paring status	No
10	BT reconnect successful	As pairing successful	Provided by HMDX
11	BT reconnect timeout	Entering into paring status	No
12	Max volume reached	Reminder	Provided by HMDX
13	Min volume reached	no	No

3.2 List of Physical Visual Indications

Product off, USB connected

Indicator	color	Description
Product LED	null	off
Charging LED	•	Solid as long as charging. Off when charging complete

Power off and USB not connected

Indicator	color	Description
Product LED	null	off
Charging LED	null	off

Powering up

Indicator	color	Description
Product LED	•	On

Powering down

Indicator	color	Description
P roduct LED	null	off

Product on

Event	indicator	color	Description
BT audio source	Product LED		1. At Re-connect or Pairing mode, Product LED flashing
			2. After paired, 蓝灯5秒闪一次 Blue LED 5s once

Charging mode

Event	Indicator	color	Description
Charging	Charging LED	•	Solid as bng as charging. Off when charging compète

Battery mode

Event	in di cator	color	Description
Battery healthy	Charging LED	null	Charging LED off, not required
Battery low	Product LED	•	Flashing 1 sec on, 1 sec offuntil USB cable is inserted or battery died.
Battery critical	All LEDs	null	Off, device is off.

BT activity (The Flashing LED 0.2 seconds on and 0.2 seconds off)

Event indicator	color	Description
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BT pairing	ProductLED	•	Speaker: Blue LED Sbw flashing (0.2sec on, 0.2sec off) for 2min or until paired successfully. Blue lights flash until the pairing is successful
BT connected	ProductLED	•	Speaker: Blue LED stable on ,Blue lights flash once five seconds
BT disconnecting	ProductLED	•	Pressing Vol+ and Vol- simultaneously for 5 seconds, disconnect current BT device, enter into pairing mode

Factory Reset

indicator	color	Description
Product LED	null	Unknown

3. Product status

State	Description			
Off	Details: When device is Off without USB connected or Power off (MCU off, Amp off, charging off, BT off,)			
	To Enter: Removed USB cable and battery off			
	To Exit: Insert USB cable charging			
On	Details: Device is on (MCU on, Amp on, charging on, BT on – connectable)			
	To Enter: Power on			
	To Exit: Power off			
BT on	Details: Device is on (MCU on, Amp on, charging on, BT on - discoverable, connected, connecting)			
	To Enter: BT activity in progress			
	To Exit: Power off			

Key Assignment

Power switch

States vs Press type	On position	Off position
On	Power on	1
Off	1	Power off

Play/Pause

States vs Press type	SP (<0.5)	LP >2~3s)
On	Play or pause	Noresponse
On-aux inserted	Play or pause	No response.
BT on power up reconnect	No response	Noresponse

BT on pairing	No response	No response.
BT on connected	Play/pause	No response

<V₀l+> ₀r<V₀l->

States vs Press type	SP (<0.5)	LP >2~5s)
Off	No response	No response
On	Change volume by 1 step.	No response
On-aux inserted	Change volume by 1 step	Change volume continuously.
BT on power up re-connect	Change volume by 1 step.	No response
BT on pairing	Change volume by 1 step.	No response
BT on connected	Change volume by 1 step.	next or previous
Vol+ and Vol- pressing at the same time	No response	Disconnect current BT, enter into
		pairing mode.

4. FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against hamful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause hamful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause hamful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation