

Interface Definitions		
Interface Name	Interface Type	Specifics
Button/Dial Input	usrin	<ul style="list-style-type: none"> • 1 dial with 0-180 degree range • 3 push buttons
Power Outlet/Barrel Jack Connection	dcpwr	<ul style="list-style-type: none"> • Barrel jack-type port • Takes DC power between 5V and 25V
Battery Pack	dcpwr	<ul style="list-style-type: none"> • 18650 Li-Ion battery source • Supplies 7.3V
Sound	envin	<ul style="list-style-type: none"> • Volume between 35dB and 50dB • Frequency between 217Hz and 10kHz
VCC	dcpwr	<ul style="list-style-type: none"> • 5V DC Power • Maximum current draw dependent on voltage supplied by batteries or barrel jack connection
Signal to Play/Record	dsig	<ul style="list-style-type: none"> • Binary string format • Length of 4 characters
.wav File	code	<ul style="list-style-type: none"> • .wav file format • Cannot exceed 8GB
Frequency of part of .wav File	code	<ul style="list-style-type: none"> • Unsigned integer format • Maximum size of 16b
LED On/Off Signal	dsig	<ul style="list-style-type: none"> • Binary string format • Length of 7 characters
LED On/Off	envout	<ul style="list-style-type: none"> • Luminous intensity between 0.8mcd and 4.2mcd • 100 possible permutations of color and intensity
Sound Matching Input	envout	<ul style="list-style-type: none"> • Cannot exceed 65dB • Frequency between 217Hz and 10kHz