

AH2 OPERATION DESCRIPTION						
Operation	Status Before Operation	SW Control	3 Color LED	AH2 Status	Notes	
Power On/Off	Off	Depress	more than 1sec	Lights Green	Normal Operation	Feeding power to the circuit -> RF Transmission -> Mute Off -> AF On
	In Normal Operation or AF Volume Adjust	Depress	More than 1sec	Off	Off	Audio Off -> RF Off -> Power Off, LED : Lights -> Blinks (1sec) -> Off
Mute	In Operation (Audio On)	Push	0.2-1sec	Blinks Green	Mute On	In case the SW is depressed more than 1sec, the power shall be Off. LED : Light -> Blinks (1sec) -> Off
	In Operation (Mute On)	Push	0.2-1sec	Lights Green	Audio On	In case the SW is depressed more than 1sec, the power shall be Off. LED : Blinks -> Off
Battery Low	In Operation	N/A	---	Blinks Blue	Normal Operation+Battery Low	
	Mute	N/A	---	Blinks Blue	Mute On + Battery Low	Ignore the Mute status indication
	AF Level Adjustment	N/A	---	Blinks Yellow	AF Level Adjustment + Battery Low	Follow the Level Adjustment Indications, Ignore the battery low status.
AF Volume Adjustment	Off	Depress	more than 5sec	Blinks Yellow*	Volume Adjustment Mode	Power Off(Off) -> Level Adjustment Mode, * The speed of LED blink is the last level setting.
	Increase Gain	Push	1 Time	Blinks Yellow	Increase Gain	Increases the level by one step with one push of the SW. (Total 5 steps)
	At Maximum Level	N/A	---	Fastest Blinks Yellow	Maximum Level	Reach at the maximum level. Even AH2 is battery low, the LED keeps the fast blinks.
	Decrease Gain	Push	1 Time	Blinks Yellow	Decrease Gain	Decreases the level by one step with one push of the SW. (Total 5 steps)
	At Minimum Level	N/A	---	Slowest Blinks Yellow	Minimum Level	Reach at the minimum level. Even AH2 is battery low, the LED keeps the slowest blinks.
	Fix the AF Volume Level	Neglected	10 sec	Lights	Normal Operation	10sec after without touching the SW, the level shall be fixed and back to normal operation.
Recharging	Either In Operation or Power Off	Neglected	N/A	Lights Blue	Under Recharging	While recharging system with 5V power is connected with AH2, all of AH2 functions are the same as power off.
	Complete Recharging	Neglected	N/A	Off	Power Off	While recharging system with 5V power is connected with AH2, all of AH2 functions are the same as power off.
LED Colors						
Colors	Meanings					
Green	Normal Operation					
Yellow	AF Level Adjustment					
Blue	Battery Status					

## AH2 Wireless Transmitter Specifications

	Items	Standard			Unit	Conditions	
		Min	Typical	Max			
1	Operating Power Voltage	Product Standard	3.4	3.7	4.2	V	
		Actual Operation	3.2	3.7	5		
2	Consumption Current		30	40	mA	Power Supply Voltage : 3.7V	
3	RF Output Power	5mW	-4	+3	dB		
4	Frequency Stability		-30	30	kHz		
5	Spurious			1	uW		
6	Modulation Factor	Deviation	13	15	17	kHz	INPUT 1kHz -20dBv / +6dB/VRct
7	Input Impedance	MIC		2k		ohms	
8	T.H.D.	at Overall			2	%	1kHz DEV=Which of 15kHz or 5kHz or
9	Audio Frequency Response	50Hz, 15kHz at overall	-3.5		3.5	dB	MOD. 1kHz INPUT -50dBv
							/25 oC
<b>Specifications</b>							
	Operating Frequencies		CH1	642.375MHz			
			CH2	642.875MHz			
			CH3	644.125MHz			
			CH4	644.750MHz			
			CH5	645.500MHz			
			CH6	645.750MHz			
	Frequency Type		F3E				
	Modulation Type		Variable Reactance Modulation				
	OSC System		Crystal SAW Oscillator				
	Pre-emphasis		50usec				
	Noise Reduction Type		Compander Type				
	Operating Distance		100m from receiver in sight.				
	Antenna		Utilizing microphone boom				
	Input		Microphone Permanently Attached				
	Phantom		3V/3.2kDC/2.2kAC				
	Maximum Input Level		-10dBv /VRct (TYP)				
	Battery		Lithium polymer battery(3.7V/210mA/h)				
	Battery Life (Alkaline)		5 hours at 25 oC				
	Battery charge		USB charger : 100mA/ 2-3H		Optional AC Adapter charger : 200mA /1-2H		
	Operating Temperature		0 - 50 oC				
	Controls		One push switch for Power/VR/Mute				
	Display (LED)		1 x 3 color LED to indicate Battery, Normal Operation, Mute, Level Change, Recharging status				
	Dimensions		W : 14mm, L : 177mm ,H : 58 mm(no Antenna included)				
	Weight		approx. 23g				