X2 SLIM USER'S MANUAL
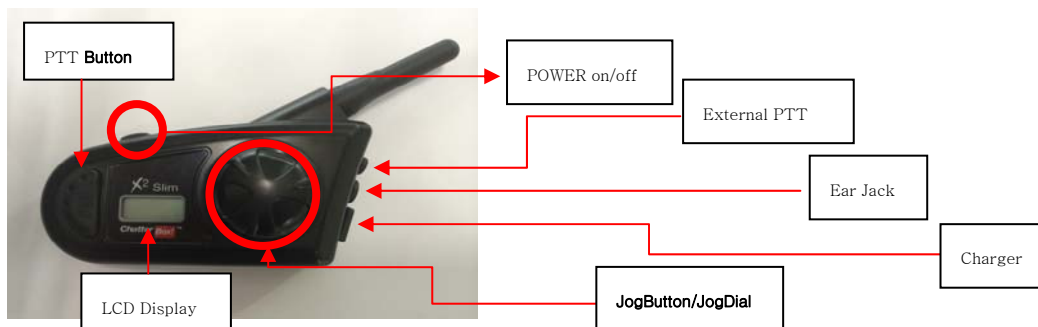
Product　detail information：

1. Power ON/OFF : Press "Power Key."

2. Mode :　Music Play Mode, (To use Radio, to listen FM Radio, To access Bluetooth)

    Communication Mode, (To use Radio, to listen FM Radio, To access Bluetooth)

    Intercom Mode (To use Radio, To use intercom between a rider and passengers)

    FM Radio Mode, (To use Radio, To listen FM Radio, To access Bluetooth)

    Setup Mode (To set up functions, To convert mode)

3. VOX　mode　:

    If frequency channel are set, radio reception is available.

    When VOX mode is on, without pressing "PTT key", voice commands can transmit Radio

    (Voice should be louder than VOX level) .

    - There are two ways to set VOX function, one is to set at SETUP mode, the other is press "Jog Button"

      for 4 seconds until hearing beeping sound 4 times and then set VOX ON/OFF.

    - At Intercom Mode, although VOX function is on, VOX function won't work.

    - At Intercom Mode, press "PTT" to transmit

    - In VOX mode, X2 SLIM can be used "hands-free," automatically transmitting when you speak. You

      can set the VOX sensitivity level to fit the volume of your voice and avoid transmissions triggered by

      background noise.

4. Push-to-Talk Timeout Timer

    - To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone

      and stops transmitting if you hold PTT talk button for more than 60 seconds.

1. Power on DCSS/CTCSS Setting mode

No	Button	Functions
1	To enter JogButton/JogDial	✧ Press "Power Key" & "PTT" Button more than 3 Sec ✧ Display on LCD ✧ Display 1 time Beep ✧ Voice display 1 : "Please Look at the LCD" ✧ Voice display 2 : "DCSS & CTCSS Setting" ✧ Display channels to set
2	To set JogButton/JogDial	✧ Press JogButton/JogDial ✧ ("Channel" -voice guidance) ✧ -->change channel UP/DOWN ✧ ("Channel1~ Channel22" -voice guidance) ✧ -->To select channel (press JogButton/JogDial) ✧ -->To change tone (UP/DOWN) (DCSS/CTCSS/mute tone) ✧ -->select tone (Press JogButton/JogDial) ✧ -->To change frequency tone (UP/DOWN) ✧ (Channel UP/Down -voice guidance) ✧ --> To select frequency tone(press JogButton/JogDial) ✧ ("Completed"- voice guidance)
3	To complete & go upper menu JogButton/JogDial	1. While selecting tone, press quickly JogButton/JogDial twice to go upper menu. voice guidance will come out as "DCSS & CTCSS Setting" 2. For mute tone, select mute tone (No voice guidance, no display on LCD), and press Jog dial one more time to complete selection.- voice guidance
4	To complete selection & turn off (Power OFF)	To finish setting of tone, use power off and U will hear a voice guidance as "Completed" After Beep, LCD OFF

2. Power on Bluetooth Pairing

1	Pairing Button/Dial	Power Key + Press Jog Button more than 3 sec It is impossible to interconnect a Cellphone via Bluetooth to the FRS/GMRS for retransmission, it only for Cellphone via Bluetooth playing music to link the device. Not in GMRS/FRS bands
2	Display	1.Display Beep one time 2. Voice display : "Bluetooth Pairing" 3. LED Blinking
3	Paring Time & pin number	1.Start pairing with Master's mobile PIN Code is "0000". 2. Only 10 minutes will be allowed for you to do pairing.

3.Setup Mode

1	Select Vox on/off	1.Left(OFF)/Right(ON) after selection press quickly JOG Button
	VOX Level (Set VOX ON)	1. Turn Jog Dial (UP/DOWN) and select VOX Level. After selection, press quickly JOG Button. (In order to simplify to use the VOX on/off function, press 4 sec Jog Dial and then audio guidance will come out as "VOX ON or OFF"
2	Select Bluetooth Voice Call ON/OFF	1. Turn Jog Dial and then stop at the spot you wish. After selection, press quickly JOG Button.
3	Voice Prompt Volume Level	Turn Jog Dial and control volume level of Voice Prompt. After selection, press quickly JOG Button

4. Music Play Mode

1	To play Music	1. when No function is on, press quickly JOG Button
2	To stop Music	1. While playing music, press quickly JOG Button
3	To skip to previous song or to next song	1. After pressing JOG Button, turn JOG Dial (right - next song / left - previous song.)
Handsfree function		
1	While Music Plays, to answer a call	As music stops, ringing a bell, press quickly JOG Button
2	While Music Plays, to call	Stop playing music, press 2 sec JOG Button (At setup mode, if Voice mode is on, U can use "Voice Call"
3	To end a call	Press quickly JOG Button, music returns after call.
4	To reject a call	When ringing a bell, press 2 sec JOG Button
5	While talking, to convert to mobile phone	While talking, press 2 sec JOG Button
6	To adjust volume	when Audio is on, turn JOG Dial (Left/Right)
7	To convert Mode	1. while talking, mode conversion is NOT available . 2. While using Radio, mode conversion is available 3. when No function is on, mode conversion is available. (Press twice quickly JOG Button)

5. Communication Mode

1	Radio Reception	NONE
2	Radio transmission	1. when no function is on, press PTT Button 2. While talking on mobile, radio transmission is not available. 3. When VOX mode is on, without pressing PTT button, radio transmission is available.
3	To change Channel	1. enter Setup mode to change channel

*Handsfree function

1	While talking on Radio, to answer mobile	When bell is ringing, press quickly JOG Button
2	To call	Press 2 sec JOG Button (At setup mode, if Voice mode is on, U can use "Voice Call")
3	To end a call	Press quickly JOG Button, music returns after call.
4	To reject a call	When ringing a bell, press 2 sec JOG Button
5	While talking, to convert to mobile phone	While talking, press 2 sec JOG Button
6	To adjust volume	when audio is on, turn JOG Dial (Left/Right)
7	To convert Mode	1. While talking, mode conversion is NOT available 2. While using Radio, mode conversion is available 3. When No function is on, mode conversion is available. (Press twice quickly JOG Button)

6. FM Radio Mode

1	Radio Reception	NONE
2	To transmit radio	1. When no function is on, press PTT Button. 2. While talking on mobile, Radio transmission is NOT available. 3. When VOX mode is on, without pressing PTT button, radio transmission is available..
3	To listen FM Radio	1. Select Mode
4	To change channel	After pressing JOG Button, adjust JOG Dial

table		
Handsfree function		
1	To answer a call while listening Radio	As ringing a bell, press quickly JOG Button
2	To call while listening Radio	Press 2 sec JOG Button (at Setup mode, as voice mode is set, do Voice Call)
3	To end a call	Press quickly JOG Button, music returns after call..
4	To reject a call	When ringing a bell, press 2 sec JOG Button
5	While talking, to convert to mobile phone	While talking, press 2 sec JOG Button
6	To adjust volume	when audio is on, turn JOG Dial (Left/Right)
7	To convert Mode	1. While talking, mode conversion is NOT available 2. While using Radio, mode conversion is available 3. When No function is on, mode conversion is available. (Press twice quickly JOG Button)

7. Intercom Mode

1	Intercom communication	Select Intercom Mode to communicate
Handsfree Function		
1	While talking, to answer mobile	When a bell is ringing, press quickly JOG Button
2	While talking, to call mobile	Press 2 sec JOG Button (at Setup mode, as voice mode is set, do Voice Call)
3	To end call	Press quickly JOG Button, music returns after call..
4	To reject call	When ringing a bell, press 2 sec JOG Button
5	While talking, to convert to mobile	While talking, press 2 sec JOG Button
6	To adjust volume	when audio is on, turn JOG Dial (Left/Right)
7	To convert mode	1. While talking, mode conversion is NOT available 2. While using Radio, mode conversion is available 3. When No function is on, mode conversion is available. (Press twice quickly JOG Button)

			Channel	Frequency (MHz)	Power （Watt）	
			FRS			
			1	462.5625	0.22	
			2	462.5875	0.21	
			3	462.6125	0.23	
			4	462.6375	0.22	
			5	462.6625	0.22	
			6	462.6875	0.24	
			7	462.7125	0.22	
	Channelization Frequencies		GMRS			
			8	462.5750	1.45	
			9	462.6250	1.46	
			10	462.6750	1.42	
			11	462.5500	1.41	
			12	462.6000	1.43	
			13	462.6500	1.45	
			14	462.7000	1.42	
			15	462.7250	1.43	
			FRS			
			16	467.5625	0.45	
			17	467.5875	0.43	
			18	467.6125	0.42	
			19	467.6375	0.43	
			20	467.6625	0.42	
			21	467.6875	0.42	
			22	467.7125	0.43	

CTCSS TONE Frequency Chart

NO	Frequency (Hz)	NO	Frequency(Hz)	NO	Frequency(Hz)	NO	Frequency(Hz)	NO	Frequency(Hz)
00	NO Tone	08	88.5	16	114.8	24	151.4	32	203.5
01	67.0	09	91.5	17	118.8	25	156.7	33	210.7
02	71.9	10	94.8	18	123.0	26	162.2	34	218.1
03	74.4	11	97.4	19	127.3	27	167.9	35	225.7
04	77.0	12	100.0	20	131.8	28	173.8	36	233.6
05	79.7	13	103.5	21	136.5	29	179.9	37	241.8
06	82.5	14	107.2	22	141.3	30	186.2	38	250.3
07	85.4	15	110.9	23	146.2	31	192.8		

DCS TONE Frequency Chart

No.	Code	No.	Code	No.	Code	No.	Code
01	023	22	143	43	315	64	532
02	025	23	152	44	331	65	546
03	026	24	155	45	343	66	565
04	031	25	156	46	346	67	606
05	032	26	162	47	351	68	612
06	043	27	165	48	364	69	624
07	047	28	172	49	365	70	627
08	051	29	174	50	371	71	631
09	054	30	205	51	411	72	632
10	065	31	223	52	412	73	654
11	071	32	226	53	413	74	662
12	072	33	243	54	423	75	664
13	073	34	244	55	431	76	703
14	074	35	245	56	432	77	712
15	114	36	251	57	445	78	723
16	115	37	261	58	464	79	731
17	116	38	263	59	465	80	732
18	125	39	265	60	466	81	734
19	131	40	271	61	503	82	743
20	132	41	306	62	506	83	754
21	134	42	311	63	516		

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 harmful 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 harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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

GMRS system licensed to a telephone answering service must not transmit any communications to customers of the telephone answering service

An individual who is licensed in the GMRS (other than an employee of that individual) may communicate two-way voice messages concerning the licensee's personal or business activities

GMRS system may communicate a selective calling tone or tone operated squelch only in conjunction with a voice communication. If the tone is subaudible (300 Hertz or less) it may be communicated during the entire voice message. If the tone is audible (more than 300 Hertz) it may be communicated for no more than 15 seconds at a time

The FRS unit may transmit tones to make contact or to continue communications with a particular FRS unit. If the tone is audible (more than 300 Hertz), it must be transmitted continuously no longer than 15 seconds at one time. If the tone is subaudible (300 Hertz or less), it may be transmitted continuously only while you are talking.

This two-way radio operates on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. A user must be licensed prior to operating on Channels 8 through 15 on high power, which comprise the GMRS channels of this radio. Serious penalties could result for unlicensed use of GMRS channels, in violation of FCC rules. Operation of this radio is subject to additional rules specified in 47 C.F.R. Part 95.

Licensed users will be issued a call sign by the FCC, which should be used for station identification when operating this radio. GMRS users should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of their transmission time.

For licensing information and application forms, please call the FCC Hotline at 800-418-FORM. Request form #159 and form # 605. Questions regarding the license application should be directed to the FCC at 888-CALL-FCC. Additional information is available on the FCC's website at www.fcc.gov.

Channel 1 through 7 on low power and channels 15 through 22 comprise the FRS (Family Radio Service). No license is required to operate on the FRS.

Your wireless handheld portable transceiver contains a low power transmitter. When the talk button is pushed, it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless devices.

FCC RF Exposure Requirements: For body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Cobra accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications or attachments could damage the transmitter and may violate FCC regulations.

Hold the transmitter approximately 2 inches from your face and speak in a normal voice, with the antenna pointed up and away.