### **Model: BF-888S PLUS**



**ATTENTION!** You're BF-888S PLUS SERIES is a multi-task Two Way Radio. Combining the latest technology in radio communication along with a sturdy mechanical frame, BF-888S PLUS is the ideal and effective solution for the professionals who need to stay in touch with the working team (in construction sites, buildings, shows, trade fairs or hotels) or for leisure users that just want to keep up with

#### friends and family.

Before using this product, read the RF Energy Exposure and Product Safety Guide that ship with the radio which contains instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulation.



**WARNING:** MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBIITED UNDER FCC RULES AND FEDERRAL LAW.



### **FCC Part 15.21 Warning Statement**

THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

### Chapter 1. Getting Started

### 1.1 Regulations and Safety Warnings

### **FCC Licensing Information**

This device complies with Part 90 and 15 of the federal Communications Commission (FCC) Rules.

Operation is subject to the condition that that this device does not cause harmful interference. The radio operates on radio frequencies that are regulated by the Federal Communications Commission (FCC). To transmit on these frequencies, you are required to have a license issued by the FCC. To obtain forms, call the FCC forms hotline at: 1-800-418-3676 or go to http://www.fcc.gov For questions concerning commercial licensing, contact the FCC at 1-888- CALL-FCC (1-888-225-5322).

Before filling out you application, you must decide which frequency you can operate on.

NOTICE: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited. FCC Regulatory Conformance

#### **FCC Statement**

Our radio generators RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways To Minimize Such hazards.

This radio is NOT intended for use by the "General Population" in an uncontrolled environment. This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only".

Inaddition, our radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- ---IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- ---American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- ---American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields-RF and Microwave.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to as-sure that this radio operates with the FCC RF exposure limits of this radio.

#### Electromagnetic Interference/Compatibility

During transmissions, The radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so.

DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

#### Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then 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.

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

#### **Licensing Information**

Use our radio in USA is subject to the rules & regulations of FCC. Changes or modifications not expressly approved by our may void the user authority granted by the FCC to operate this radio and should not be made. To comply with FCC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter

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component (crystal, semiconductor, etc) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

**Note**: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited. **Important**: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians.

### **Compliance with RF Exposure Standards**

The radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR § 1.1307, 1.1310 and 2.1093
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95.1:2005; Canada RSS102 Issue 5 March 2015
- Institute of Electrical and Electronic Engineers (IEEE) C95.1:2005 Edition

### **RF Exposure Compliance and Control Guidelines and Operating Instructions**

To control your exposure and ensure compliance with the occupational/ controlled environmental exposure limits, always adhere to the following procedures

#### Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

#### **Operating Instructions:**

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), press the Push-to-Talk (PTT) key. To receive calls, release the [PTT] key. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy only when transmitting (in terms of measuring for standards compliance).
- Keep the radio unit at least 2.5cm away from the face. Keeping the radio at the proper distance is important as RF exposure decreases with distance from the antenna. The antenna should be kept away from the face and eyes.
- When worn on the body, always place the radio in an approved holder, holster, case, or body harness or by use of the correct clip for this product. Use of non-approved accessories may result in exposure levels which exceed the FCC's occupational/ controlled environmental RF exposure limits.
- Use of non-approved antennas, batteries, and accessories causes the radio to exceed the FCC RF exposure guidelines.
- Contact your local dealer for the product's optional accessories.

#### **Precautions for Portable Terminals**

#### **Operating Prohibitions**

To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

- 1. Do not operate the product in a location containing fuels, chemicals, explosive atmospheres and other flammable or explosive materials. In such location, only an approved Ex-protection model is allowed for use, but any attempt to assemble or disassemble it is strictly prohibited.
- 2. Do not operate the product near or in any blasting area.
- 3.Do not operate the product near any medical or electronic equipment that is vulnerable to RF signals.

Do not hold the product while driving.

Do not operate the product in any area where use of wireless communication equipment is completely prohibited.

#### **Important Tips**

To help you make better use of the product, be sure to observe the following instructions:

- 1. Do not use any unauthorized or damaged accessory.
- 2. Keep the product at least 2.5 centimeters away from your body during transmission.
- 3. Do not keep the product receiving at high volume for a long time.
- 4. For vehicles with an air bag, do not place the product in the area over the air bag or in the air bag deployment area.
- 5. Keep the product and its accessories out of reach of children and pets.
- ${\bf 6.} \quad {\bf Please \ operate \ the \ product \ within \ the \ specified \ temperature \ range}.$
- 7. Continuous transmission for a long time may lead to heat accumulation within the product. In this case, please keep it at a proper location for cooling.
- 8. Handle the product with care.
- $9. \ \ \, \text{Do not disassemble, modify or repair the product and its accessories without authorization}.$

### **Precautions for Batteries**

## **Charging Prohibitions**

To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

- Do not charge or replace your battery in a location containing fuels, chemicals, explosive atmospheres and other flammable or explosive materials.
- 2. Do not charge your battery that is wet. Please dry it with a soft and clean cloth prior to charge.
- 3. Do not charge your battery suffering deformation, leakage and overheat.
- 4. Do not charge your battery with an unauthorized charger.
- 5. Do not charge your battery in a location where strong radiation is present.
- 6. Overcharge shall always be prohibited for it may shorten the life of your battery.

#### **Maintenance Instructions**

To help your battery work normally or prolong its life, be sure to observe the following instructions:

- 1. Accumulated dust on charging connector may affect normal charging. Please use a clean and dry cloth to wipe it on a regular basis.
- 2. It is recommended to charge the battery under 5℃~40℃. Violation of the said limit may cause battery life reduction or even battery leakage.

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- 3. To charge a battery attached to the product, turn it off to ensure a full charge.
- 4. Do not remove the battery or unplug the power cord during charging to ensure a smooth charging process.
- 5. Do not dispose of the battery in fire.
- 6. Do not expose the battery to direct sunlight for a long time nor place it close to other heating sources.
- 7. Do not squeeze and penetrate the battery, nor remove its housing.

### **Transportation Instructions**

- 1. Damaged batteries must not be transported.
- 2. To avoid short circuit, separate the battery from metal pars or from each other if two or more batteries are transported in one packaging.
- 3. The radio must be switched off and secured against switch-on, if the battery is attached.

The content of the shipment must be declared in the shipping documents and by a Battery Shipping Label on the packaging. Contact your hauler for the local regulations and further information.

### 1.2 Package Contents

Package Content	BF-888S PLUS	BF-888S PLUS	BF-888S PLUS	BF-888S PLUS
		Extreme	Excellence	Honorable
Radio	2	2	4	6
Li-ion Battery	2	2	4	6
Belt Clip	2	2	4	6
Power Supply	1	1	2	1
Desktop Charger	0	1	2	0
Six-unit Desktop Charger	0	0	0	1
Headset	0	2	4	6
Owner's Manual	1	1	1	1

#### 1.3 Main characteristics

- 16 Channels
- Channel spacing: 12.5 KHz
- Vocal tuning
- Channel Monitor
- 2pin Kenwood accessory jack
- 50 CTCSS tones and 210 DCS codes
- Frequency Range: 400.00 to 470.00MHz

- Output power: Max 2W
- Channel Scan
- Battery save
- Squelch
- TOT (Time out timer)
- Li-Ion 1500mAh battery pack
- Product certification information: FCC Rules Parts 90

## Chapter 2. Installation of Accessories

#### 2.1 Install the Li-ion Battery

### To install the batteries:

- (1) Turn off the radio. Orient the back of the radio and the battery latch toward you.
- (2) Fit the battery to the back of the radio (cover the product nameplate). Squeeze and push the battery pack toward the top until the battery is locked by the latch.

### Remove the battery

- (1) Turn off the radio. Orient the back of the radio and the battery latch toward you. .
- (2) Press down on the battery latch to the end, and pull out the battery towards you until it is completely detached from the radio.

#### 2.2 Installing the Belt

To install the **Belt Clip**, slide the clip down into the slot on the back of the radio until the **Belt Clip-latch** clicks. To remove the **Belt Clip**, press the Lock-tab down, and then gently pull the belt clip up toward the top of the radio.

### 2.3 External Speaker/Microphone Jack

Each radio can be used with an optional external speaker/microphone or headset, freeing your hands for other tasks. To use an optional speaker / microphone or headset:

- (1) Open the rubber cap on the side of the radio.
- (2) Insert the plug(s) into the SPK/MIC jacks.
- (3) Place the ear bud into your ear, and adjust the Microphone into your desired position.

### **Using a Headset**

You can use a headset (#480\_5R) for more private communications. To use a headset, lift the rubber cover from over the headset jack, and then plug in the headset.

**Important:** Your radio is not submersible or waterproof when using a headset jack. When you remove the headset, be sure to fully press the jack cover into place to restore its waterproof capability.

### Chapter 3. Charging the Battery

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#### 3.1 Charging the Radio

Charging the Radio

The radios can be charged directly by using the supplied charging cradle. A single radio can charge using the Micro USB port to connect to a USB power source. For fastest charging, turn off the radio before charging.

Warning!

To avoid the risk of personal injury or property damage from fire or electrical shock, only use the accessories specifically designated for this product. Using the Micro USB Port

- (1) Connect the included AC adapter with Micro USB connector cable to the radio's Micro USB port. Connect the other end to an outlet that provides USB charging power (NOT to a USB hub).
- (2) Charge the batteries for 6 hours until the battery indicator either stops flashing.

### 3.2 Using the Charging Cradle

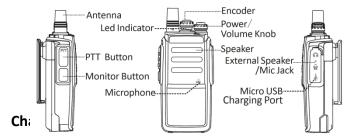
- (1) Connect the included AC adapter with USB connector cable to the charging cradle's Micro USB port. Connect the other end to a standard AC wall outlet.
- (2) Set the charging cradle on the desk or tabletop, and place the radio in the charging cradle with the keypad facing forward.
- (3) Charge the batteries for 6 hours.

Note:

- Use only the supplied batteries, charger, and AC adapter or approved accessories.
- Charge time may vary depending on the battery life remaining.
- · The batteries must be installed for the unit to operate, even if the unit is also connected to external power.
- · If battery power is low, you cannot operate the radio even using external power. Allow the batteries to charge before using.
- \*If you try to transmit while power is low, the radio will automatically turn off.

### Chapter 4. Radio Overview

#### Main controls and parts of the radio



### 5.1 Power on/off and volume adjustment

Rotate the **Power/Volume** knob clockwise to turn the radio on. Rotate the control clockwise /counter-clockwise to adjust the volume level as you prefer. To turn the radio off, rotate the control counter-clockwise till hearing a mechanical "click".

### 5.2 Transmission

To communicate, all radios in your group must be set to the same channel. Briefly press the **Monitor** to enable the Monitor feature in order to make sure that the frequency is not busy, and then press the **PTT** key. Release the **PTT** key to receive. Only one user at a time can talk during radio communications. Therefore, it is important not to transmit when you are receiving a communication and use the transmission mode sparingly to allow other users to talk. Transmission consumes a significant amount of energy and should therefore be used sparingly to prolong the battery life. If you are unable to contact a station that you have no problems in receiving, the station may be using CTCSS tones or DCS codes.

### 5.3 Monitor

The Monitor feature is for excluding (opening) the Squelch, in order to listen to signals that are too weak to keep the Squelch permanently opened. Hold down the **Monitor** to enable such function.

### 5.4 Scan

This function can be activated only by means of the optional programming software. To enable the Scan function, all 16 channels must be programmed. If you turn on the radio on channel 16, the scanning will automatically start. Whenever any signal is detected, the scanning will stop on a busy channel. If the PTT is pressed, you will transmit on the latest busy channel. Channel 16 is the priority channel; therefore if you don't pick up any signal when you press PTT, the radio will transmit on channel 16.

### 5.5 Squelch

The Squelch function suppresses noises on free channels and allows receiving even weak signals. BF-888S PLUS has 10 different Squelch levels that can be set by programming software: 0 means that the Squelch is turned off; from level 1 to level 9 you will have different levels of noise reduction. The higher is the level, the louder will be the Squelch. By default, the Squelch level of BF-888S PLUS is set on level 4. Make sure you do not set an

#### 5.6 CTCSS/DCS tones

CTCSS and DCS tones are similar to access codes and enable the radio to communicate only with the users that are tuned on the same channel and have set the same code. For each channel, you can set up to 50 CTCSS tones and 210 DCS codes. The CTCSS/DCS tones are a sort of "access codes" and enable the radio to communicate only with the other users set on the same frequency and on the same CTCSS/DCS tone. Undesired signals

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coming from other stations set on the same frequency but with different CTCSS/DCS tones won't be received.

#### 5.7 Prompt voice switch settings

The encoder is selected to the **10th** channel. Press and hold the **PTT** and **Monitor** to turn on the radio, and turn the prompt voice on or off. Turn on the prompt voice function, and there will be voice prompts when the encoder is turned on or operated. If you turn off the prompt voice function, there is only a "beep" prompt when you turn on or operate the encoder.

#### **Emergency alert function**

If necessary, you can pre-program the **Monitor** into the Alarm function via CPS programming software.

Turn on the radio, short press the Monitor to turn on the alarm function. Press the Monitor again to release the emergency alarm status.

CPS programming path: Edit> Function Setting> Side Key> Alarm

#### 5.8 VOX

The VOX feature enables hands free conversations without using PTT: just speak in the direction of the microphone and the communication will be automatically activated. The VOX sensitivity can be adjusted in 5 different levels (1...5) through the programming software:

Level 2 is set by default and has the lowest VOX sensitivity, 5 is the lowest one.

With the programming software you can enable/disable the VOX feature and select the sensitivity levels.

CPS programming path: Edit> VOX >Vox Gain

### 5.9 Quick operation radio

Without CPS programming software, you can perform the following quick operations through the combination of PTT + Monitor:

- On channels 1-5, press and hold the PTT + Monitor to turn on the radio and turn the VOX function on or off. The VOX sensitivity is level 1-5, the level 1 sensitivity is the highest, and the level 5 sensitivity is the lowest. Accompanied by a voice prompt VOX ON or VOX OFF.
- On the 10th channel, press and hold the PTT + Monitor to turn on the radio and turn on or off the prompt voice function.
- On the 15th channel, press and hold the PTT + Monitor to turn on the radio and switch the prompt language between Chinese and English.

### Appendix A. - Trouble shooting guide

Phenomena	Analysis	Solution		
	The battery may be installed improperly.	Remove and reattach the battery.		
You cannot turn on the radio.	The battery power may run out.	Recharge or replace the battery.		
fou cannot turn on the radio.	The battery may suffer from poor contact caused by	Clean the battery contacts or replace the		
	dirty or damaged battery contacts.	battery.		
	The battery voltage maybe low.	Recharge or replace the battery.		
During receiving, the voice is weak	The volume level may be low.	Increase the volume.		
or intermittent.	The antenna maybe loose or maybe installed	Turnoff the radio, and then remove and		
or intermittent.	incorrectly.	reattach the antenna.		
	The speaker maybe blocked.	Clean the surface of the speaker.		
You cannot communicate with	The frequency or signaling type maybe inconsistent	Verify that your TX/RX frequency and		
	with that of other members.	signaling type are correct.		
other group members.	You may be too far away from other members.	Move towards other members.		
	You may be interrupted by radios using the same	Change the frequency, or adjust the squelch		
You hear unknown voices or noise.	frequency.	level.		
fou flear utiknown voices of floise.	The radio in analog mode maybe set with no	Request your dealer to set signaling for the		
	signaling.	current channel to avoid interference		
	You may be too far away from other members.	Move towards other members.		
	You may be in an unfavorable position. For	Move to an open and flat area, restart the		
You are unable to hear anyone	example, your communication may be blocked by	radio, and try again.		
because of too much noise and hiss.	high buildings or blocked in an underground area.			
	It may be the result of external disturbance (such as	Stay away from equipment that may cause		
	electromagnetic interference).	interference.		
The radio keeps transmitting	VOX may be turned on or the headset is not	Turn off the VOX function. Check that the		
The radio keeps transmitting.	installed in place	headphones are in place.		
You cannot use the keys.	The keypad may not work temporarily.	Restart the radio.		

NOTE: If the above solutions cannot fix your problems, or you may have some other queries, please contact your dealer for more technical support.

### Appendix B. - Technical Specifications

General Part	
Frequency Range	400.00 to 470.00MHz
Working temperature	-10°C to +40°C
Operation Voltage	DC 3.7 V ±10%
Operation Mode	Simplex
Antenna Impedance	50ohm
Duty cycle	5/5/90%
Category	В

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**Transmitter Part** 

RF Output Power 2W

FM Modulation 11K0F3E@12.5KHz

Spurious Emission -13dBm < 1GHz, -13dBm > 1GHz

Adjacent Channel Power 60dB @ 12.5KHz

Transmission current ≤1000mA

**Receiver Part** 

 Receive Sensitivity
 0.25μV (12dB SINAD)

 Adjacent Channel Selectivity
 ≥55dB@12.5KHz

 Inter Modulation and Rejection
 ≥55dB@12.5KHz

 Conducted Spurious Emission
 ≤-57dB@12.5KHz

 Rated Audio Power Output
 0.5W @8 ohms

 Receive current
 ≤380mA

 Rated Audio Distortion
 ≤5%

NOTE: All specifications may be modified without prior notice or liability.

### Appendix C. - CTCSS Table

### CTCSS CHART (Hz)

Number	Frequency								
1	67.0	2	69.3	3	71.9	4	74.4	5	77.0
6	79.7	7	82.5	8	85.4	9	88.5	10	91.5
11	94.8	12	97.4	13	100	14	103.5	15	107.2
16	110.9	17	114.8	18	118.8	19	123.0	20	127.3
21	131.8	22	136.5	23	141.3	24	146.2	25	151.4
26	156.7	27	159.8	28	162.2	29	165.5	30	167.9
31	171.3	32	173.8	33	177.3	34	179.9	35	183.5
36	186.2	37	189.9	38	192.8	39	196.6	40	199.5
41	203.5	42	206.5	43	210.7	44	218.1	45	225.7
46	229.1	47	233.6	48	241.8	49	250.3	50	254.1

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### Appendix D. - DCS Table

### DCS CODE LIST

	Number	Code								
-	1	D023N	2	D025N	3	D026N	4	D031N	5	D032N
	6	D036N	7	D043N	8	D047N	9	D051N	10	D053N
	11	D054N	12	D065N	13	D071N	14	D072N	15	D073N
	16	D074N	17	D114N	18	D115N	19	D116N	20	D122N
	21	D125N	22	D131N	23	D132N	24	D134N	25	D143N
	26	D145N	27	D152N	28	D155N	29	D156N	30	D162N
	31	D165N	32	D172N	33	D174N	34	D205N	35	D212N
	36	D223N	37	D225N	38	D226N	39	D243N	40	D244N
	41	D245N	42	D246N	43	D251N	44	D252N	45	D255N
	46	D261N	47	D263N	48	D265N	49	D266N	50	D271N
	51	D274N	52	D306N	53	D311N	54	D315N	55	D325N
	56	D331N	57	D332N	58	D343N	59	D346N	60	D351N
	61	D356N	62	D364N	63	D365N	64	D371N	65	D411N
	66	D412N	67	D413N	68	D423N	69	D431N	70	D432N
	71	D445N	72	D446N	73	D452N	74	D454N	75	D455N
	76	D462N	77	D464N	78	D465N	79	D466N	80	D503N
	81	D506N	82	D516N	83	D523N	84	D526N	85	D532N
	86	D546N	87	D565N	88	D606N	89	D612N	90	D624N
	91	D627N	92	D631N	93	D632N	94	D645N	95	D654N
	96	D662N	97	D664N	98	D703N	99	D712N	100	D723N
	101	D731N	102	D732N	103	D734N	104	D743N	105	D754N
	106	D023I	107	D025I	108	D026I	109	D031I	110	D032I
	111	D036I	112	D043I	113	D047I	114	D051I	115	D053I
	116	D054I	117	D065I	118	D071I	119	D072I	120	D073I
	121	D074I	122	D114I	123	D115I	124	D116I	125	D122I
	126	D125I	127	D131I	128	D132I	129	D134I	130	D143I
	131	D145I	132	D152I	133	D155I	134	D156I	135	D162I
	136	D165I	137	D172I	138	D174I	139	D205I	140	D212I
	141	D223I	142	D225I	143	D226I	144	D243I	145	D244I
	146	D245I	147	D246I	148	D251I	149	D252I	150	D255I
	151	D261I	152	D263I	153	D265I	154	D266I	155	D271I
	156	D274I	157	D306I	158	D311I	159	D315I	160	D325I
	161 166 171 176 181 186 191 196 201 206	D331I D356I D412I D445I D462I D506I D546I D627I D662I D731I	162 167 172 177 182 187 192 197 202 207	D332I D364I D413I D446I D464I D516I D565I D631I D664I D732I	163 168 173 178 183 188 193 198 203 208	D3431 D3651 D4231 D4521 D4651 D5231 D6061 D6321 D7031 D7341	164 169 174 179 184 189 194 199 204 209	D346I D371I D431I D454I D466I D526I D612I D645I D712I D743I	165 170 175 180 185 190 195 200 205 210	D351I D411I D432I D455I D503I D532I D624I D654I D723I D754I

### Disclaimer

The Company endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and designs are subject to change without notice due to continuous technological development. No part of this manual may be copied, modified, translated, or distributed in any manner without the prior written consent of the Company.

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