stomdevice

SAESHIN

Implant XCUBE i

USER MANUAL



www.saeshin.com

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INTRODUCTION

This product is **medical device.**

Please make sure to read this manual before using.

This manual is to assure proper installation and usage.

Pay attention when reading the manual in order to properly use this product and to assure prolonged lifespan of the product.

Specifically, pay attention to the contents with marks such as , and .

〈User〉

- Qualified Professional

〈Intended use〉

- Engine that power the implant handpiece in dental implant procedure.

〈Classification of equipment〉

- Product Name: Dental Implant Engine Set
- Type of protection against electric shock: Class I equipment

  - To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- Degree of protection against electric shock: Type BF applied part Type BF
- Classification according to the degree of protection against ingress of water as detailed in the current edition of IEC 60529:
  - Control Box: IPX0
  - Foot Controller: IPX8
- Not suitable product to use where there exist flammable anesthetic mixture with air or with oxygen.
- User sterile product (non-sterile product at shipment)
- Classification according to mode of operation: Intermittent operation
  - Control Box: Continuous operation
  - Handpiece : Non-Continuous operation (Loading time: 1 minute, Resting time: 10 minutes)
- Applied parts: Bur

〈Operation & Storage condition〉

Operating condition	Temperature (℃)	10~35
	Relative humidity (%)	10~80
	Atmospheric pressure (hPa)	700~1,060
Transport and storage condition	Temperature (℃)	-20~60
	Relative humidity (%)	10~90
	Atmospheric pressure (hPa)	500~1,060

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USER GUIDELINES

CAUTION

- Please pay attention when using to consider the patient's safety most importantly.
- Check the condition of the product before use.
- Stop using and inspect the product when an abnormal sign occurs such as calescence, vibration or noise before or during operation.
- Please contact manufacturer if problem cannot be solved.
- Prepare extra consumables before use for safety.
- Change or insert bur after the motor is completely stopped. Otherwise, inside of the angle could be damaged by bur, and it could cause an accident.
- Please sterilize and lubricate the angle handpiece right after use. Otherwise, it could be damaged due to coagulation of blood inside the product.
- The control box, motor and foot controller are a not steam sterilization objects.
- The input power is available at AC 100-120V / 220-240V.
  (Check input voltage before connecting the AC power.)
- Dispose the irrigation tube as a medical waste after use.
- Contact manufacturer if an incorrect display appears on the screen.
- Do not drop or bang the product.
- Do not damage the irrigation tube, as it will not work properly due when the tube is broke or dislodges.
- Do not insert oil into the motor. It will damage bearing or cause calescence.
- The product is designed to be used indoors; do not use outdoors.
- Do not use the product in a humid or dusty environment.
- Use only regulated products and consumables by the manufacturer. Otherwise, there could be a risk of an accident or failure.
- Replace the cords immediately when it is worn-out or damaged to prevent electric shock to the user or patient.
- Manufacturer may change specification and design of this product in order to improve the quality.
- User has responsibility to operate and maintain this product.
- The company did not sterilize the product. Please make sure to sterilize before operation. (User sterilization)
- US Federal law rstricts this device to sales by or on the order of a dentist.

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WARNING

- Please watch old person, children, or disabled person near the place that the product is installed. If so, do not let them alone.
- Do not drop or damage the motor. In case of malfunction, dropping or falling in water, do not use it and contact the manufacturer.
- The equipment is automatically stopped when the machine load is higher than Torque value.
- Do not damage or drop the LCD part of the control box.
- Portable and mobile radio frequency communications equipment can affect the product. Do not use radio frequency equipment outskirts for the product.
- The system may present a possibility of malfunction when used in the presence of an electromagnetic interference wave. Do not install the system in the vicinity of the device which emits magnetic waves. Turn off the power switch of the Control box when an ultrasonic oscillation device or an electrode knife is located in the vicinity is used.
- For safety, install the control box in a place where the power cord can be easily removed. (It is possible to disconnect the control box from the power source by removing the power cord.)

PROHIBITION

- When unplugging the power cord, do not touch cord with wet hand.
- Do not use loose power cord, it could cause electric shock and fire.
- Do not damage the power cord (do not bend too hard, or put heavy objects on it). That may cause electric shock and/or fire.
- Unauthorized modification and dismantling is prohibited.
- Do not use a solvent such as thinner or benzene for cleaning.
  ※ Please use an absorbent or alcohol to wipe the controller box. Do not wipe with wet cloth.
  ※ Be careful not to drop liquid on control box.
- Do not place the product near any heated equipment and do not put candles or cigarettes on it.
- Use only a grounded outlet. Please contact electrical technician or manufacturer regarding the ground connection.
- Be sure to use designated bur by ISO 1797.
- Follow the user manual by manufacturer of bur to use bur.
- Keep the recommended speed limit by manufacturer of bur to use bur. If exceed the speed limit, it might cause an accident.
- The product must be used by specialist or dentist. If not, patient might get hurt from improper use.
- If patient is taking antibiotics, patient needs to consult with doctor before operation.
- Keep product away from spray containing flammable material.
- Manufacturer does not have any responsibility for defects or loss to property in the following cases:
  1.User did not follow the user manual when using the product.
  2.Used the product in a place of unregulated wire condition.
  3.Unauthorized person repaired the product.
  4.Did not follow the user manual for this product.
- Do not use on the following patients.
  1. Those with medical complications or allergies
  2. Those who have pre-existing conditions (E.g. Cardiac, Pulmonary, Renal disturbance or High blood pressure)
  3. Those who are pregnant or lactating
  4. Patients with cardiac pacemakers and infants

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PRODUCT FEATURES & ADVANTAGES

〈DC motor designed by SAESHIN's own technology and know-how〉

- Provide the optimized performance by DC motor and standard angle handpiece.

* RPM: 30 ~ 1,500 rpm

- The free-running speed of the handpieces shall be in accordance with the manufacturer's instructions at a tolerance of ±10 % as specified. (Refer to ISO 14457)

* Torque: 10 N·cm ~ 55 N·cm
* Gear Ratio: 20:1

〈Program memory function〉

- 3 programmable memories for setting speed, torque, rotating direction, irrigation pump.

〈Automatic overload protection function〉

- If the load on the bur is higher than set torque, the motor will stop automatically and an Error message will be displayed.
- To release the overload function, release the foot controller.

〈Beep sound function〉

- When using reverse direction, ring the beep sound for protecting user confusion.

PRODUCT COMPONENTS

* Please check all components are included.



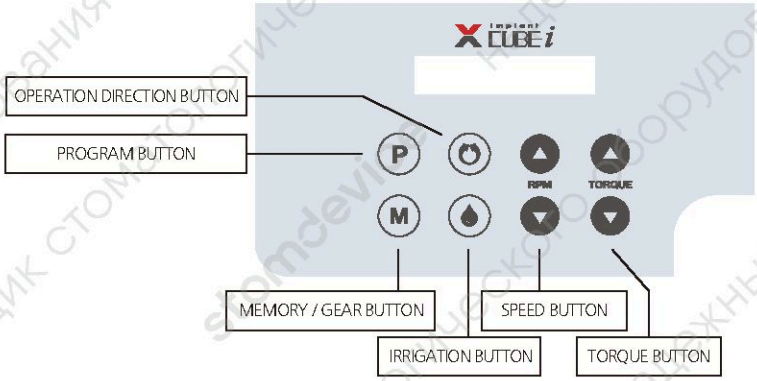
No.	Component Name	No.	Component Name
1	CONTROL BOX	8	MOTOR STAND
2	MOTOR (DC)	9	IRRIGATION TUBE
3	ANGLE HANDPIECE	10	INTERNAL SPRAY NOZZLE (OPTION)
4	FOOT CONTROLLER	11	TUBE HOLDER
5	POWER CORD	12	TUBE CLAMP
6	SPANNER FOR ANGLE	13	Y-TUBE (OPTION)
7	HANGER	14	A-SLEEVE

- Saline Solution Pack is not included in a set.
- Irrigation tube and Y-Tube are disposable, Do not use them again.

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PART NAME OF CONTROL BOX





BUTTONS ON THE OPERATION PANEL

Program button
: This is used for selecting the memorized program number. By pressing the button, the program changes by 1 stage. The program returns to number 1(PRG:1) after number 3(PRG:3).

Operation direction button
: This is used for selecting a forward or reverse direction. A beep sound is heard during rotation in reverse direction.

Memory button
: Keep pressing this button for 2 seconds after completed setting program, program is memorized with beep sound.

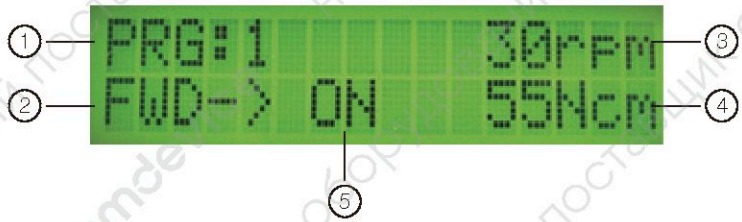
Irrigation button
: This is used for setting the irrigation volume. Irrigation volume is 90 mℓ/min ± 20 %.

Speed button
: This is used for setting the speed (RPM).
(▲) button for increase, (▼) button for decrease.
Keep pressing speed button to change rapidly.
The setting range of speed is from 30 rpm to 1,500 rpm.

Torque button
: This is used for setting the torque according to various usage, such as drilling or tapping.
(▲) button for increase, (▼) button for decrease.
The range of torque is from 10 N·cm to 55 N·cm.

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LCD WINDOW



1. Program number display
   : It shows current set of program number. It display PRG:1 to PRG:3 and can save 3 programs.
   After restart the device, it displays the last selected program.

2. Operation direction display
   : It shows the selected direction
   - FWD -> : Clockwise
   - <- REV : Reverse direction

3. Speed display
   : It shows preset RPM when the device is paused. It reaches the set RPM when the foot controller is fully activated.

4. Torque display
   : It shows the setup torque value. If an actual load is higher than set torque value, the set torque value is on the screen and the motor is stopped automatically with error code on the screen and beep sound.

5. Irrigation display
   : It shows the selected irrigation.

- Impact to the device may cause breakage of LCD.

CONNECTION OF EACH PART



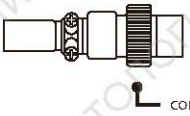
-When connecting the motor and foot controller, please make sure the power is off.
(Otherwise, it might cause a malfunction.)

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1. Motor cord connection



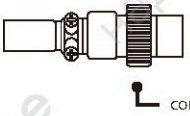
Insert the motor connector.
Check if the holes and pins of motor connector are lined-up. Then screw in the connector lock.



2. Foot controller connection



Insert the foot controller connector.
Check if the holes and pins of foot controller connector are lined-up.
Then screw the connector lock.



3. Power cord connection



Insert the power cord into the power socket in the back of the control box.

4. Irrigation tube connection



Open the pump roller cover.



Insert the irrigation tube correctly.



Locate the Irrigation tube correctly when insert the irrigation tube. Otherwise, Irrigation cannot be smoothly



Close the pump roller cover.



Make sure the irrigation tube is located correctly
when close the pump roller cover.



Make sure the pump roller cover is correctly close.

- When it is not in use for long term, open the irrigation pump cover. Irrigation tube might change its shape and cause a malfunction.

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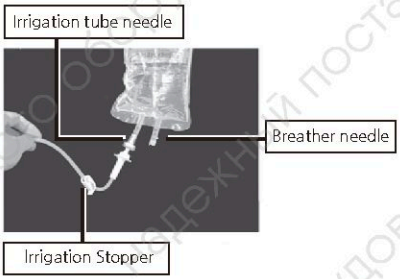
5. Hanger setting

: Put the hanger into the hanger hole on the top side of the control box.



6. Irrigation tube insertion

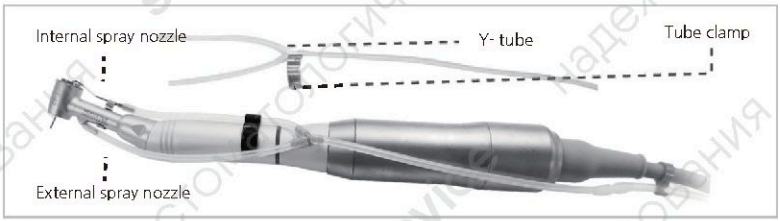
: Insert the irrigation tube needle into the bottle and place with the bottle downward. Lock the irrigation stopper and put it between the irrigation tube needle and bottle.



- If the pump is in operation mode but water does not come out of the hand piece, the tube may be broken or damaged.

7. Irrigation nozzle connection

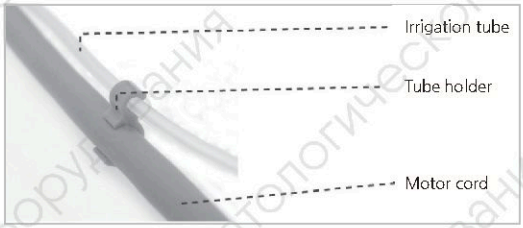
: The internal and external irrigation are available by the Y-connector tube.
Connect the accessories as in the picture according to the bur using and the surgery type.



- If the user did not remove the internal spray nozzle and pressed the button or open the lever when replacing the nozzle may get damaged.

8. Tube holder connection

: Put the motor cord and irrigation tube together with the tube holders.
Insert the tube holder to the motor cord and then insert the irrigation tube in order to create a better working condition.



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OPERATION PROCESS



1. Turn on the main switch.
   When you turn on the device, the last program you used is set in the standby mode.
2. Press the operation direction button ( ) on the control box to select the operation direction.
   Operation direction is forward and reverse. During the reverse operation, it beeps continuously.
   (Sounds let the user know the operation direction.)
3. Press the irrigation button ( ) on the control box to select the irrigation mode.
4. Press the speed button (RPM) to set the speed. (▲) button for increasing speed, (▼) button for decreasing speed.
   Keep pressing speed button to change rapidly.
5. Press the torque button (TORQUE) to set the torque. (▲) button for increasing torque, (▼) button for decreasing torque.
6. Start operating by pushing the foot controller
   Speed depends on how much you push the foot controller.
   Irrigation pump operates when the irrigation pump button is on.

■ Program setting

1. Press the program button (P) on the control box to select the program number. Program number increases each 1 stage in order. The program returns to number 1(PRG:1) after number 3(PRG:3).
2. After setting the desired value by referring to the operation method, keep pressing program memory button (M) for 2 seconds. Program is memorized with beep sound.

■ Error and Remedy

: In case of stopping Handpiece by not working & using error, each error code may be shown below.

Error	Cause & Remedy
Warning ! Foot pedal Check	Cause: Faulty foot controller connection or damage Remedy: Reconnect the foot controller cord properly. Contact the manufacturer if the remedies do not activated.
Warning ! Torque Limit	Cause: Torque is overloaded than the setting values during the surgery. Remedy: Press the foot controller to release the error. Contact the manufacturer if the remedies do not activated.

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■ Fuse replacement



- Check the fuse if the control box doesn't work.
- If necessary contact your dealer.

MAINTENANCE OF THE PRODUCT

1. Cleaning

1) Angle handpiece

① Rotate the head in tap water for about 10 seconds with maximum speed to remove the remains (blood, physiologic saline solution, etc.) and rinse.
※ Do not put tap water in the motor.
② Disconnect the angle handpiece to the motor.
③ Remove contaminants on the angle handpiece by using a nylon brush after soaking for 20 minutes in Enzymatic Detergent.
④ Rinse the angle handpiece by using tap water for 3 minutes to remove Enzymatic Detergent.
⑤ Wash the angle handpiece for 10 minutes in an ultrasonic cleaner containing Enzymatic Detergent.
⑥ Rinse the angle handpiece for 3 minutes in the ultrasonic cleaner containing purified water repeatedly subjected to 3 times. (Change the purified water each time.)
⑦ Wipe using a dust-absorbent cloth after the product has soaked in alcohol (70%) for 30 seconds.

2) Motor

Remove any debris or blood stains by wiping over all surfaces with alcohol towelettes (70% Isopropyl)
Repeat wipe over three times.

- Pay attention to not let water enter the motor.
- Do not submerge the product in detergent. It may cause malfunction.

2. Sterilization

1) Sterilization product list

· Angle handpiece

2) Sterilization method

① Dry the applicable parts completely.
② Put the applicable parts in a sterile bag and seal tightly.
③ Put the sterile bag in the sterilizer unit and run for 4 minutes with 132℃, and let dry for 30 minutes.



Sterilization	Temperature	Time	Dry
Moist heat sterilization	132 ℃	4 minutes	30 minutes

- Maximum sterilization number is 250 times.
- Make sure to use a sterilization bag and seal tightly.
- Make sure to dry the applicable products before sterilization.
- Sterilizing the angle handpiece with blood or other remains may cause the breakage of the angle handpiece. Therefore, it is necessary to clean the angle handpiece before sterilization.
- Irrigation tube and Y-connector are disposable. Do not re-use.
- Do not sterilize the motor.

3. Lubrication

1) Lubrication product list

· Angle handpiece

2) Lubrication method

- Refer to angle manufacturer's handpiece manual.

- Do not insert oil into the motor. It can damage the bearings.

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ATTENTION

1. Please read the notice below before operating the product.
   ① Check the connection of all cords and correct operation when powering-on.
   ② Check if the ground connection is safe.
   ③ Make sure to check any contact part to patient.
   ④ Check the voltage.
   ⑤ Check the sterile condition of any autoclavable parts.

2. Please read the notice below during the product use.
   ① Constantly check the status of the product and patient during surgery.
   ② When product or patient has any problem, stop the operation for the patient's safety and take the proper action.
   ③ Do not let patient approach or touch the product.

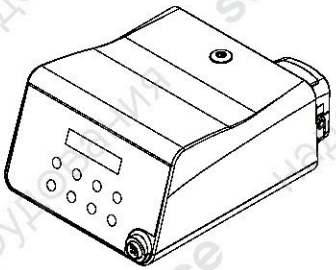
3. Please read the notice below after operating the product.
   ① Do not put any physical pressure on the all cords.

4. When the products are not using for a long term, please be advised to the followings.
   ① Turn off the power and unplug the cord. Check the cord regularly and replace it when it is damaged.
   ② Clean and sterilize.
   ③ Keep the products in the recommended condition.

PRODUCT SPECIFICATION

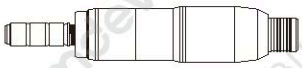
1. CONTROL BOX

Model name	TRAUS BIP10E
Input	AC 100-120 V / AC 220-240 V
Fuse	5 A / 2 A
Frequency	50 / 60 Hz
Output	48 VA
Irrigation volume	90 mℓ/min ± 20 %



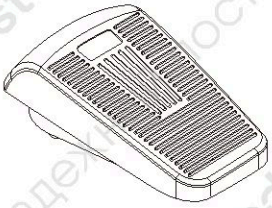
2. MOTOR

Model name	IM40
RPM	40,000 rpm
Motor type	DC Type



3. FOOT CONTROLLER

Model name	FIP20
Classification according to the degree of protection against ingress of water (IEC 60529)	IPX8



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ELECTROMAGNETIC COMPATIBILITY INFORMATION

In IEC/EN 60601-1-2 4th edition. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generate, use and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to other devices, 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 device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.
- Consult the manufacturer or filed service technician for help.

Electromagnetic Emissions		
The X-CUBE i is intended for use in the electromagnetic environment specified below. The customer or the user of the X-CUBE i should assure that is used in such an environment.		
Emission test	Compliance	Electromagnetic environment - guide
RF emission - CISPR 11 EN 55011	Group 1	X-CUBE i uses RF energy for internal operation. Therefore, its radiofrequency emissions are very low and are not likely tocause any interference in nearby equipment.
RF emission - CISPR 11 EN 55011	Class A	X-CUBE i covers devices for usage in all establishments other than domestic and that are not directly connectedto a low voltage power supply network, which supplies domestic environment. This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Harmonic emission - IEC 61000-3-2 EN 61000-3-2	Class A	
Voltage fluctuations Flicker emission - IEC 61000-3-3 EN 61000-3-3	Compliance	

Electromagnetic Immunity			
The X-CUBE i is intended for use in the electromagnetic environment specified below. The customer or the user of the X-CUBE i should assure that is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2 EN 61000-4-2	±8kV contact ±15kV air	±8kV contact ±15kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transients IEC 61000-4-4 EN 61000-4-4	±2kV for power supply lines ±1kV for input/output lines	±2kV for power supply lines ±1kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surges IEC 61000-4-5 EN 61000-4-5	±1kV differential mode ±2kV common mode	±1kV differential mode ±2kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations IEC 61000-4-11 EN 61000-4-11	0 % UT for 0.5 cycle at 8 Φ angles 0% UT for 1 cycle 70 % UT for 25/30 cycles 0 % UT for 250/300 cycle	0 % UT for 0.5 cycle at 8 Φ angles 0% UT for 1 cycle 70 % UT for 25/30 cycles 0 % UT for 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user requires continued operation during power mains interruptions, it is recommended that the X-CUBE i got power from an uninterruptible power supply or battery.
Power frequency (50/60Hz) magnetic field IEC 61000-4-8 EN 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: UT is the a.c. mains voltage prior to application of the test level.			

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The X-CUBE i is intended for use in the electromagnetic environment specified below. The customer or the user of the X-CUBE i should assure that is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 EN 61000-4-6	3 Vrms 150 kHz to 80 MHz 6 Vrms In ISM bands from 150 kHz to 80 MHz	3 Vrms 150 kHz to 80 MHz 6 Vrms In ISM bands from 150 kHz to 80 MHz	Portable and mobile RF communications equipment should be used no closer to any part of the X-CUBE i including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3 EN 61000-4-3	3 V/m 80 MHz to 2.7 GHz	3 V/m 80 MHz to 2.7 GHz	Recommended separation distance $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ 80MHz to 800MHz $d = 2.3\sqrt{P}$ 800MHz to 2.7GHz Where 'P' is the maximum output power rating of the transmitter in watt (W) according to the transmitter manufacturer 'd' is the recommended separation distance (m). The electromagnetic field strength of fixed radiofrequency emitters, which is determined by an electromagnetic environment measurement (a), must be less than the compliance level in each frequency range (b). Interference may occur near equipment marked with the symbol below:

Note 1: At 80 MHz and 800 MHz, the higher frequency range applies.
Note 2: These specifications may not be applicable in all situations.
E lectromagnetic propagation is affected by absorption and reflection from structures, objects and persons.

(a): The electromagnetic field strength of fixed radiofrequency emitters, such as base stations for mobile telephones (cellular / cordless), mobile radio, AM/FM radio broadcasts and TV broadcasts cannot be determined exactly by theory. To assess the electromagnetic environment due to fixed radiofrequency emitters, an electromagnetic environment measurement must be made. If the measured radiofrequency field strength in the immediate environment where the product is used exceeds the compliance level specified above, the performance of the product must be tested to verify whether it conforms to the specification. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the product.
(b): In the 150 kHz to 80 MHz frequency range, the electromagnetic field strengths must be less than 3V/m.

Recommended separation distances between portable and mobile RF communications equipment and the X-CUBE i			
The X-CUBE i is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the X-CUBE i can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the X-CUBE i as recommended below, according to the maximum output power of the communications equipment			
Rated maximum output Power of transmitter (W)	Electromagnetic environment - guidance		
	150 kHz ~ 80 MHz $d = 1.2\sqrt{P}$	80 MHz ~ 800 MHz $d = 1.2\sqrt{P}$	800 MHz ~ 2.7 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	12

For transmitters rated at a maximum output power not listed above, the recommended separation distance 'd' in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.
Note 1: At 80 MHz and 800 MHz, the higher frequency range applies.
Note 2: These specifications may not be applicable in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and persons.

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Cables and accessories	Maximum length	Shield	Complies with	
Handpiece cord	1.7 M	Unshielded	RF emissions, CISPR11	Class A / Group 1
Foot controller cord	1.7 M	Unshielded	Harmonic emissions	IEC 61000-3-2 EN 61000-3-2
AC power cord	1.7 M	Unshielded	Voltage fluctuations / flicker emissions	IEC 61000-3-3 EN 61000-3-3
			Electrostatic discharge (ESD)	IEC 61000-4-2 EN 61000-4-2
			Electrical fast transient / burst	IEC 61000-4-4 EN 61000-4-4
			Surge	IEC 61000-4-5 EN 61000-4-5
			Voltage dips, short interruptions and voltage variations on power supply input lines	IEC 61000-4-11 EN 61000-4-11
			Power frequency (50/60Hz magnetic field	IEC 61000-4-8 EN 61000-4-8
			Conducted RF	IEC 61000-4-6 EN 61000-4-6
			Radiated RF	IEC 61000-4-3 EN 61000-4-3

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WARRANTY

SAESHIN guarantees this product for 1 year from invoice date. Product warranty means that SAESHIN has responsibility for defective material or operation failure. The product warranty does not cover user's misuse, wrong installation, inappropriate maintenance and repair, and normal wear of consumables such as bearings, spindle, gear, and motor. In order for Saeshin to confirm if the warranty is valid will require checking the operating condition, environment information, serial number and stamped invoice. The warranty will be performed as a repair or exchange according to manufacturer's analysis of product and ju

Exception of warranty

Any misuse or improper use and treatment of product
Using the product with incorrect input voltage (AC voltage)
Dropping the unit during setting or moving
Use not recommended consumables or accessories
Malfunction after repairing the product at an unauthorized repair shop
Normal wear of consumables; such as ball bearings, gear, chuck, spindle case assy, motor etc.
Any Act of God

Foreign Language Manual Support

This manual is offered in Korean and English. If other languages are needed, please contact Saeshin for the manual.

1) The translated manual will be supplied by manufacturer on demand.
2) Saeshin will send the translated manual with an English manual to the import company to review the translated manual.
3) After getting feedback from the import company, Saeshin will offer a final version of the manual.

SYMBOL

P	Program button		Operation rotation button		Fuse
M	Memory button		Irrigation button	Type BF	Type BF
RPM	Speed button	TORQUE	Torque button		Waste for disposal
	Manufacturer		Consult instruction for use		Alternating current
EC REP	EU Representative		General caution sign	CE 1639	CE Marking
SN	Serial number		General warning sign	NON STERILE	Non sterile
132℃	Autoclave		General prohibition sign		

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SAESHIN

This product is **the medical device.** CE 1639 Made in Korea

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