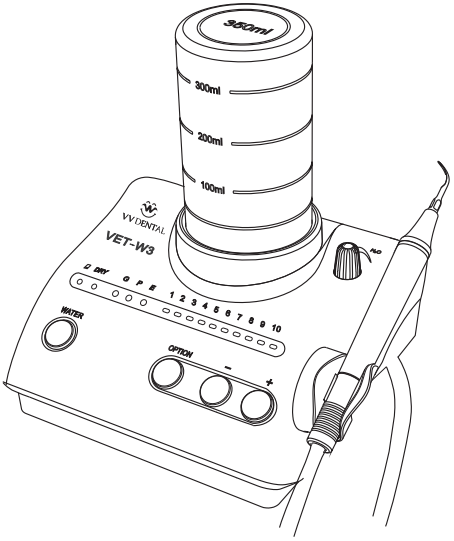
VV DENTAL

VET-W3

ULTRASONIC SCALER
INSTRUCTION MANUAL

Please read this manual before operating



NANNING VV DENTAL CO.,LTD.

Packing list

1. Main unit	1
2. Detachable handpiece	1
3. Adapter of power supply	1
4. Foot switch	1
5. Scaling tip G1	1
6. Scaling tip G2	1
7. Scaling tip G3	1
8. Scaling tip G4	1
9. Scaling tip P1	1
10. Torque wrench	1
11. "O" ring	2
12. Waterproof "O" ring	2
13. Handpiece decorative ring	1
14. Reservoir(350ml)	1
15. Reservoir(500ml)	1
16. Instruction manual	1
17. Qualified certificate	1
18. Warranty card	1

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1 The installation and components of the instrument

1. 1 Usage

1. 1. 1Remove supragingival and subgingival calculus deposits and stain from the teeth;

1. 12. Carryout periodontal pocket lavage with simultaneous ultrasonic tip movement

1. 1. 3Clean and irrigate root canals.

It contains the following features:

a) Auto-watersupply, easy to operate.

b) The inner water pipe is made of antiseptic material, clinical fluids such as hydrogen peroxide, chlorhexidine and sodium hypochlorite. It can be used perfectly in the auto-water supply mode so that the efficacy of periodontal and root canal treatment will be improved dramatically.

c) The handpiece may be installed and removed freely, and can be sterilized at the temperature of 134℃ and the pressure of 0. 22MPa.

d) The full-auto frequency tracking system of the instrument can search for the best operation status and ensures the performance is stable.

e) The operation process is controlled by a micro-computer, achieving easy operation and high efficiency.

With these features, VET-W3 is a new generation product in the worldwide dental market.

1. 2 Components

1. 2. 1 The components of the instrument are listed in the packing list.

1. 2. 2 Product performance, structure and composition

The ultrasonic scaler is composed of the main unit, handpiece, scaler tip, foot switch and power adapter.

1. 2. 3 Scope of application

The VET-W3 ultrasonic scaler is used for removal of dental calculus as well as cleaning and irrigation of root canal.

1. 3Main technical specifications

Power source input	100V-240V~ 50Hz/60Hz
Main unit input	30VDC 1. 2A
Output primary vibration deviation of tip	≤100μm
Output half-deviation force	<2N
Output primary vibration frequency of tip	28kHz±3kHz
Output power of tip	3W to 20W
Main unit fuse	F 1. 6AL250V
Applied part of instrument	handpiece and tip
Operating mode	Continuous operation
Type of protection against electric shock	Class II equipment
Degree of protection against electric shock	Type B equipment
Degree of protection against harmful ingress of water	Ordinary instrument（IPX0）, Foot switch（IPX1）
Degree of safety of application in the presence of a flammable anaesthetic mixture with air or oxygen or nitrous oxide	The instrument is not suitable for being used in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

1. 4Working conditions

Environment temperature: +5 ℃ to +40 ℃

Relative humidity: ≤ 80%

Atmosphere pressure: 70kPa to106kPa

2 Product features and operation

2. 1 Front and back sketches of the main unit

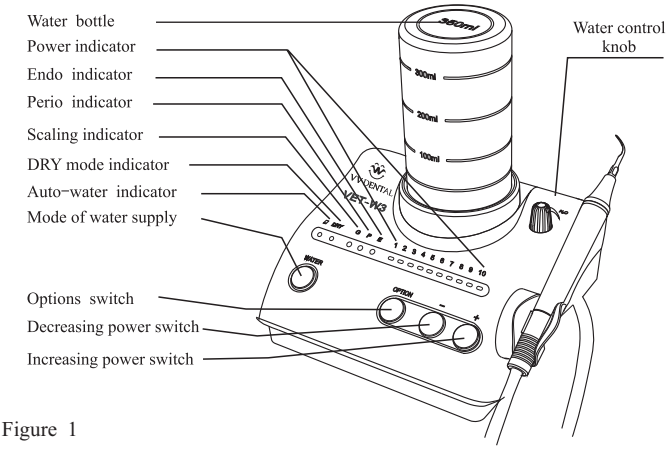


Figure 1

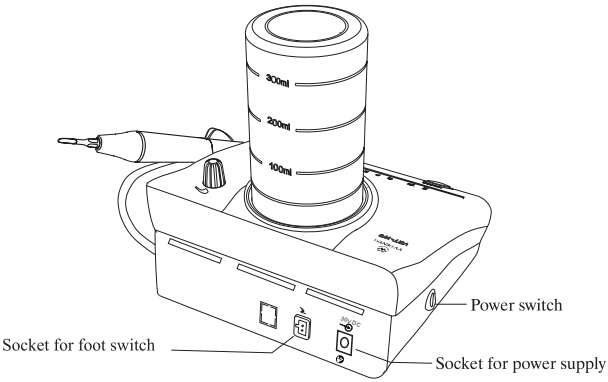


Figure 2

2. 2Product installation

2. 1 Operation steps

a) Open the packing box and make sure that all the parts and accessories are complete according to the packing list. Take the main unit out of the box and put it on a stable plane.

b) Turn the water-controlknob to the maximum direction (SeeFigure 1).

c) Insert the plug of the foot switch to its socket (See figure 3).

d) Water pipe installation: Pour an appropriate amount of water into the bottle, and install the bottle reversely to the connector (See figure 6).

e) Screw the scaler tip onto the handpiece and fasten it with the dental torque wrench, and then insert the handpiece into the connector of tail cable correctly.

f) Set the power switch of the main unit in the OFF state. And then, connect the power output terminal with the main unit. At last, plug the power plug to its socket of the grid power supply.

2. 2. 2 Sketch for connection of foot switch, adapter and main unit

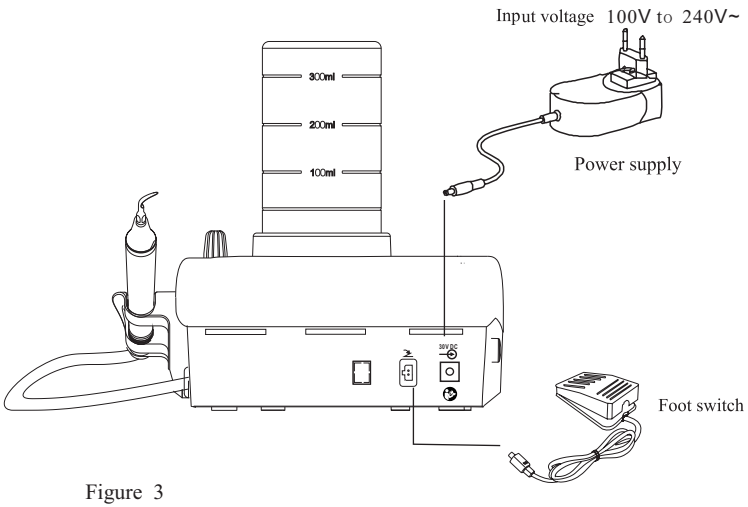


Figure 3

2. 3Description of main components of detachable handpiece (SeeFigure 4):

2. 3. 1Components

a) Handpiece: It is the main working part of the instrument and can be sterilized with high temperature and pressure.

b) The connector of cable: Used to connect the water pipeline and circuit between the handpiece and the main unit.

Note: The connection between the handpiece and the connector of cable should be kept dry.

2. 3.2 Sketch for connection of detachable handpiece

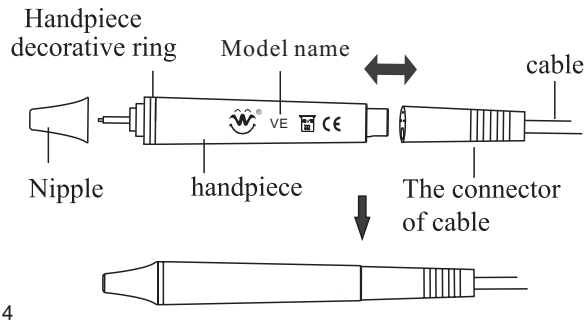


Figure 4

2. 4 Instructions for use of dental torque wrench (See figure 5)

a) The dental torque wrench adopts a special structure design, and it can control the force to install and remove the tip reasonably and effectively, which ensures the users can install and remove the tip effectively and protect their hands from injury when they use it.

b) Operation Steps

① Take out the dental torque wrench. Install and remove the tip as shown in Figure 5.

② Tip installation: Hold the handpiece, and turn the tip toward the direction shown in Figure 5 with the dental torque wrench. When the tip cannot be turned, turn it for one more circle.

③ Tip removal: Hold the handpiece, and use the dental torque wrench to turn the tip toward reverse direction relative to the one shown in Figure 5. Thus, the tip may be removed.

④ Sterilize the dental torque wrench in the sterilizer for sterilization after each treatment.

⑤ The dental torque wrench must be cooled naturally after sterilization to avoid scald when using next time.

⑥ Keep the dental torque wrench in a cool, dry and ventilated place and keep it clean after use.

2. 4.2 Sketch map for how to install tip and endochuck with wrench

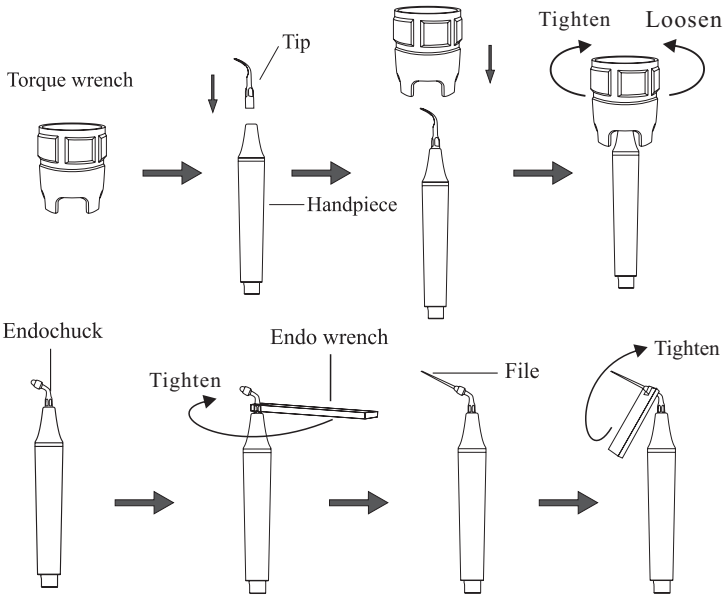


Figure 5

2.5 Auto-watersupply function

2. 5. 1 Operation steps

a) Pull out the water bottle installed on the scaler vertically.

b) Take off the bottle lid, pour an appropriate purified water into the bottle and screw down the bottle lid.

c) Wipe the bottle interface and connector clean.

d) Place the bottle with water upside down, and insert the bottle connector into the interface of the scaler (Seefigure 6).

e) Press“WATER ”to choose auto-watersupply mode.

2. 5. 2 Water pipeline connection sketch for water bottle

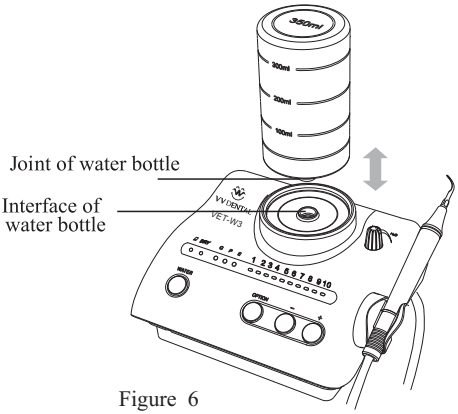


Figure 6

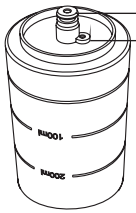


Figure 7

2. 5. 3 Notice

a) Make sure the water outlet and air inlet are not blocked before inserting the bottle connector into the bottle interface (See figure 7).

b) Check if the gasket inside the lid cap. Reinstall or replace it if there is any scaling or deformation.

c) Tighten the lid after the bottle is filled with water.

d) Clean the bottle interface and connector after using the scaler each time.

e) After each treatment with clinical fluid, replace the bottle with the one with purified water, turn the water supply flow to the maximum, and allow the instrument work for 30s in the auto-water supply mode. This is to clean the pipeline lest it is blocked or the metal parts are rusted.

f) Be sure to add water times before the water level get below the lower limit.

2. 6 Operation instructions

2. 6. 1 "G" mode

a) Open the power switch on the main unit. At this time, the scaler indicator, the first five power indicators and the auto-water supply indicator go on.

b) Press WATER key to select the auto-water supply or drying mode as needed. And the corresponding indicator will go on.

c) Select a suitable scaler tip as needed, and screw it onto the handpiece tightly with the dental torque wrench (See figure 5).

d) Step on the foot switch and the tip begins vibrating.

e) The frequency is extremely high when the instrument operates normally. Under the conditions that the tip vibrates smoothly and the spray is normal, you need to use the scaler tip to touch the teeth slight and let it make the reciprocating motion to remove the dental calculus. During operation, the tip has no obvious heating. Avoid apply excessive force or stay too long in the same place.

f) Vibration intensity: Press the power increase key "+" once, the power will be increased by one gear, and so on. The maximum gear is Gear 10. Press the power decrease key "+" once, the power will be decreased by one gear. The minimum gear is Gear 1. Generally, users set the speed in the medium gears. The user can also adjust the vibration intensity according to the patient's sensitivity and the rigidity of the calculus on the teeth.

g) Water volume adjustment: Depress the foot switch, and the tip starts vibrating. Turn the water control knob so that the output water forms fine spray to cool down the handpiece for teeth cleaning.

h) Hold the handpiece like holding a pen in hand.

i) During the clinical treatment, be sure not to make the end of tip touch the teeth vertically and not to make the tip overexert on the surface of the teeth to avoid hurting the teeth or damaging the tip.

j) After the operation is completed, keep the instrument operate for 30 seconds in the conditions with water supply, so as to clean the handpiece and the scaler tip.

k) Pull out the handpiece and remove the scaler tip. Clean and then sterilize them.

Notice:

① Don't pull out the handpiece when the foot switch is depressed and the scaler tip is operating.

② Please don't choose the dry mode in normal conditions unless it is necessary for a short time in the process of treatment.

2. 6. 2"**P**"mode

Operation steps

a) Press the "OPTION" key to switch the scaler to the "P" mode. In this case, the periodontal scaling indicator "P" goes on, and the first three power indicators go on as well.

b) Select a suitable scaler tip and install it correctly as shown in Figure 5. Next, it can be used for periodontal scaling.

2. It is recommended to set the power range of "P" mode between Gear 1 to Gear 8.

3. 6. 3 "**E**" mode

Operation steps

a) Screw the endochuck onto handpiece with an Endo wrench (See figure 5).

b) Unscrew the nut on of the endochuck.

c) Put the ultrasonic endo file into the hole in the front-end of endochuck.

d) Screw down the nut with the endo wrench to clamp the ultrasonic endo file securely.

e) Press the "OPTION" key to turn to the endo irrigation function.

f) After the ultrasonic scaler is shift to the endo irrigation function, only the first power indicator goes on and the power is at Gear 1. During the clinical treatment, the power may be increased as necessary.

Notice

① When fixing the endo file, be sure to screw down the nut.

② Do not press the ultrasonic endo file excessively in the endo during clinical operation

③ Don't depress the foot switch until the ultrasonic file is put into the endo.

④ It is recommended to apply the irrigation power range between Gear 1 to Gear 5.

3 Sterilization and maintenance

Reusable Instruments for VET-W3

Description

Scaler tip G1	Scaler tip G2
Scaler tip G4	Scaler tip G3
Scaler tip P1	Handpiece

Dental torque wrench

The cleaning, packaging and sterilization procedures are recommended below.

3. 1 Cleaning

Scaler tip and Dental torque wrench

•Remove any externally attached soiling by brushing carefully with a soft surface brush or cloth.

•Remove the instruments from handpieces.

•Soak all parts in the cleaning solution for, at a minimum, the time and the concentration specified by the manufacturer of the cleaning agent (ENZOL, 2 %, 10 min e. g. DGHM. FDA approval or CE marking).

•Remove any externally attached soiling by brushing carefully with a soft surface brush or cloth.

•Place all parts an ultrasound bath filled with cleaning solution (ENZOL, 2%e. g. DGHM. FDA approval or CE marking).

•Treat the parts with ultrasound for at least 3 minutes.

•Brush the parts in the cleaning solution (ENZOL,2 %) if any visible soiling is detected.

•Submerge all components completely in deionized water.

•Rinse through all product lumens with deionized water.

•Repeat the cleaning process if the last rinse does not run clear, or if stains are still visible on the product.

•Dry the products with filtered compressed air（max.3 bars）

3. 2Handpieces

•Remove any externally attached soiling by brushing carefully with a soft surface brush or cloth.

•Remove the instruments from the handpieces. Remove the handpieces from the connectors. Remove the gaskets, caps and other removable parts.

•Soak all parts in the cleaning solution for, as a minimum, the time and the concentration specified by the manufacturer of the cleaning agent（ENZOL,2 %, 10 min e.g. DGHM. FDA approval or CE marking）.

•Brush all lumens and surfaces with a suitable lumen ／surface brush until all visible soiling is removed.

•Rinse through all product lumina（e. g.irrigation and aspiration connection）with the cleaning solution（ENZOL,2 %）, at least 5 times in the flow direction（nobackrinsing）,using a disposable syringe（min.volume 50 ml）applied to the nozzles of the product.

•Submerge all components completely in deionized water.

•Rinse through all product lumina（e. g.irrigation and aspiration connection）with deionized water at least 3 times in the flow direction （no back rinsing）, using a disposable syringe（min.volume 50 ml）applied to the nozzles of the product.

•Repeat the cleaning process if the last rinse does not run clear, or if stains are still visible on the product.

•Dry the products with filtered compressed air（max.3 bars）.

3. 3Packaging for Sterilization

The clean, dry instruments should be placed in the Steribox sterilization container. The container should be bagged in a sterilization pouch that is validated for use in a 134°C pre-vacuumsteam sterilization cycle. The sterilization pouch should be sealed according to the manufacturer's instructions.

If double, single-usesterilization packaging（doublebag）is to be used, this must also

comply with EN ISO 11607 and be suitable for steam sterilization（temperature resistant to138°C with adequate steam permeability）.

3. 4Sterilization

Use only the following listed steam sterilization procedures for sterilization; other sterilization procedures are not permissible:

Fractional pre-vacuumprocedure

•Steam sterilizer in accordance with EN 13060 or EN 285 validated in compliance with EN ISO 17665

•Maximum sterilization temperature 138°C,

•Sterilization time at least 6 min. at 134°C（fractionalpre-vacuumprocedure）

•Only use sterilizers and sterilization accessories cleared by FDA specifically for the［claimed］sterilization cycle

•Maintenance of sterility for the subject device is dependent on the use of appropriate packaging and sterilizing as directed. Please ensure that the sterilization wrap has been cleared by FDA for the stated sterilization cycle and storage conditions. Contents should not be considered sterile if package is torn, opened or damaged. If packaging is wet or visible signs of moisture are present on the subject device or wrap, repackage the device and re-sterilizewith a longer dry time

3. 5 Notice

a）There are two waterproof O-rings at the end of handpiece. Please lubricate them with dental lube frequently in order to extend their service life as they need sterilization and repeated pulling and inserting. Replace it with a new once it is damaged or worn excessively.

b）Be sure to perform cleaning and sterilization on the handpiece, scaler tip and accessories before first use.

4. Troubleshooting and notes

4. 1 Troubleshooting

Symptom	Possible cause	Solutions
The scaler tip doesn't vibrate and there is no water flowing out when the foot switch is depressed.	The power plug is in poor contact.	Re-plugthe power plug
	The foot switch is in poor contact.	Re-insert the foot switch.
	The fuse in the main unit is broken.	Replace the fuse with a new one.
The scaler tip doesn't vibrate but there is water flowing out when the switch is depressed.	The tip is in loose contact.	Screw down the scaler tip.
	The cable and the connection plug of the main unit are in poor contact.	Contact our dealers or us.
	Failure in the handpiece.	Pull out the handpiece and send the handpiece to our company for repair.
	Failure in the cable.	Contact our dealers or us.

Symptom	Possible cause	Solutions
There is no spray from the scaler tip when the foot switch is depressed.	The water control knob is off	Turn on the water control knob [Note 1].
The vibration of the tip becomes weak.	The tip hasn't been screwed onto the handpiece tightly.	Screw the tip on the handpiece tightly (See figure 5).
	The tip is loose because of vibration.	Screw the tip tightly (See Figure 5).
	The connection part between the handpiece and the cable is not dry.	Dry the connection part with the hot air.
	The tip is damaged [Note 2].	Replace the tip with a new one.
There is water seeping from the connection part between the handpiece and cable.	The waterproof O-ring is damaged.	Replace it with a new one.
The endo file doesn't vibrate.	The nut is loose or not tightened.	Tighten it.
	Endochuck is damaged.	Replace it with a new one.
There is noise coming from the endochuck.	The nut is loose or not tightened.	Tighten it.
There is no water coming out from the handpiece (automatic water supply mode).	There is air in the water pipe.	Turn the water control knob to the max, and reinsert the bottle.

If the symptom still exists, please contact with local dealer or manufacturer.

4. 2Notes

[Note1] Turn the water control knob as shown in the figure until it cannot be further turned, the minimum water volume will be get. And the maximum water volume will be get through the opposite operation.

[Note2] If the scaler tip has been screwed down tightly and there is fine spray too, the following symptoms show that the scaler tip is damaged:

a) The vibrating and the water spraying intensity become weak obviously.

b) During treatment, the sound like 〃buzz〃 is produced from the scaler tip.

For the best effect, change the scaler tip after 100 times of sterilization.

5. Precautions ⚠

5. 1Notice

5. 1. 1 Keep the scaler clean before and after operation.

5. 1. 2 The handpiece, scaler tip and dental torque wrench must be sterilized before each treatment.

5. 1. 3 Don't install or remove the scaler tip, endochuck and endo file when the foot switch is depressed.

5. 1. 4 The scaler tip must be fastened and ensure there is spray supply when it is operating.

5. 1. 5 Replace the scaler tip with a new one when it is damaged or worn excessively.

5. 1. 6 Don't bend or grind the scaler tip.

5. 1. 7 Ensure the connection end of handpiece and the socket for the cable are dry before installing the handpiece.

5. 1. 8 Don't pull the cable by force to avoid the handpiece falling off from the cable.

5. 1. 9 Don't knock or grind the handpiece.

5.1.10 After operation, turn off the power and unplug the plug.

5. 1. 1 Do not use this product in the environment with inflammable anaesthetics or gases.

5. 1. 2 This product must be used only by trained and qualified personnel.

5. 2 Contraindications

5. 2. 1. The product is not applicable to the patient with hemophilia.

5. 2. 2. The patient or the operator with a pacemaker should not use the instrument.

6. Storage and maintenance

6. 1 The instrument should be handled carefully and lightly. Be sure that it is far from the vibration, and installed or kept in a cool, dry and ventilated place.

6. 2 Don't store it with the articles which is toxic, corrosive, flammable and explosive.

6. 3 This product should be kept in a room where the relative humidity is under 80%, atmospheric pressure within the range of 50kPa to 106kPa, and the temperature within the range of −10℃ to +50 ℃.

6. 4 Please turn off the power switch and pull out the power line plug when the product is not in use. If it is expected not to be used for a long time, please make the it get through the electricity and water for 5min once per month.

7 . Transportation

It is best to ship the product in the original packaging as it can protect the product against damage during shipment.

8 . After-sale s service

We offer one year of free repair since the instrument is sold. Besides, we are also responsible for its lifetime maintenance.

If your product needs additional maintenance or repair, please send it to your dealer or to an authorized VV DENTAL Repair Center.

VV DENTAL will take no responsibility for any damage of the product due to non-authorized repair, or as the result of failure to follow the operation instructions. Besides, these behaviors will cause the warranty become invalid.

9 . Environmental protection

This product has no harmful substance. It can be disposed as per the local laws and regulations.

10 . For technical data, please contact

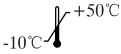
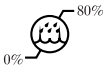
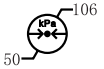
11 .Symbol description

The following symbols may appear in this manual, on the device, or on its accessories.

VV DENTAL Trademark



Refer to instruction manual / booklet

	Caution		Used indoor only
	Manufacturer		Date of manufacture
	Type BF applied part		Appliance compliance WEEE directive
	Connection for the foot switch		Class II equipment
	30V DC power supply socket	IPX1	Anti-drip device
	Adjustment for the water fow		Can be autoclaved
	Mode of auto-water system		Recovery
	Temperature limitation		Keep dry
	Humidity limitation		Handle with care
	Atmospheric pressure for storage	DRY	DRY mode
	Specifies serial number		CE marked product
	Authorised Representative in the EUROPEAN COMMUNITY		

RX ONLY Caution: Federal law (USA) restricts this device to sale by or on the order of a physician or a licensed practitioner

12. Manufacturer's right

If there is any difference between the drawing and the real instrument, the real instrument data should prevail.

13. Declaration of conformity

Product conforms to the following standards

MEDDEV2 12-1	EN ISO 60601-1-4:2001	MDD 93/42/EEC
EN ISO 10993-1:2009	EN ISO 14971:2012	EN ISO13485:2016
EN ISO 10993-5:2009	EN ISO 1041:2008	EN ISO 17664:2004
EN ISO 10993-10:2010	EN ISO 7405:2013	EN ISO 17665-1:2006
EN/IEC60601-1:2012	EN 61000-3-2:2014	EN ISO 9687:2015
EN/IEC60601-1-2-2007/AC	MEDDEV2. 7. 1	IEC/EN62304:2006
EN ISO 15223-1:2012	EN ISO 22374:2005	

14. EMCinformation

14. 1Accompanying Documents:

14. 1. 1Instructions for use

a. Model VET-W3 needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the accompanying documents.

b. Portable and mobile RF communications equipment will affect model VET-W3.

14. 1. 2 Technical description

a. Warning that the use of accessories, transducers and cables other than those specified with the exception of transducers and cables sold by the manufacturer of the model VET-W3 as replacement parts for internal components, may lead to increase emissions or decreased immunity of the model VET-W3.

b. Warning that the model VET-W3 should not be used adjacent to or stacked with other equipment

14.2. Normative references

Guidance and manufacturer′s declaration — electromagnetic immunity			
The model VET-W3 is intended to use in the electromagnetic environment specified below. The customer or the user of the model VET-W3 should assure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD) IEC61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8kV 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 transient/burst IEC 61000-4-4	± 2kV for power supply lines	± 2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge lEC 61000-4-5	± 1kV line(s) and neutral	± 1 kV line(s) and neutral	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 610004-11.	<5% *UT* (>95% dip in Ut.) for 0.5 cycle 40 % *UT* (60% dip in *UT*) for 5 cycles 70% *UT* (30 % dip in *UT*) for 25 cycles <5% *UT* (> 95 % dip in *UT*) for 5 sec	<5% *UT* (>95% dip in UT.) for 0.5 cycle 40 % *UT* (60% dip in *UT*) for 5 cycles 70% *UT* (30 % dip in *UT*) for 25 cycles <5% *UT* (>95 % dip in *UT*) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the model VET-W3 requires continued operation during power mains interruptions, it is recommended that the model VET-W3 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field lEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
NOTE U_T is the A/C. mains voltage prior to application of the test level.			

Guidance & Declaration - Electromagnetic immunity			
The model VET-W3 is intended to use in. the electromagnetic environment specified below. The customer or the user of the model VET-W3 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF lEC 610004- 6 Radiated RF lEC 610004- 3	3 Vrms 150 kHz to 80 MHZ 3 Vrms 80 MHz to 2.5 Ghz	3 Vrms 3 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the model VET-W3, including cables, and the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance d=1.2X√P d = 1.2X√P 80 MHz to 800 MHZ d=2.3X√P 800 MHz to 2.5 Ghz where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and *d* is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, [a] should be less than the compliance level in each frequency range. [b] Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE I At 80 MHz end 800 MHz. the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model VET-W3 is used exceeds the applicable RF compliance level above, the model VET-W3 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model VET-W3.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Guidance and manufacturer's declaration - electromagnetic emissions

The model VET-W3 is intended to use in the electromagnetic environment specified below. The customer or the user of the model VET-W3 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The model VET-W3 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR11	Class B	The model VET-W3 is suitable for use in all establishments but if used in domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes, whatever additional measures are necessary.
Harmonic emissions IEC 61000-3-2	Not Applicable	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Not Applicable	

Recommended separation distances between portable and mobile RF communications equipment and the model VET-W3

The model VET-W3 is intended to use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the model VET-W3 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model VET-W3 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter [W]	Separation distance according to frequency of transmitter [m]		
	150kHz to 80MHz **d =1.2 √P**	80MHz to 800MHz **d =1.2 √P**	800MHz to 2.5GHz **d =2.3 √P**
0.01	0.12m	0.12m	0.23m
0.1	0.38m	0.38m	0.73m
1	1.2m	1.2m	2.3m
10	3.8m	3.8m	7.3m
100	12m	12m	23m

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 separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

WARNING

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, consequently, it damages your health and well−being.

The device requires no calibration.

The user must check the equipment functions are safe and make sure that whether it is in proper working condition or not before use.

Components

N0.	Description	Type
01	Main unit	175mm X 145mm X 82mm
02	handpiece	Φ18.8mmX 118mm
03	Power supply	/
04	Foot switch	100mm X 62mm X 36mm
05	Scaler tip	G1.G2. G3. G4. P1
06	Dental torque wrench	Φ 31mm X 30mm
07	Waterproof "O ″ ring	Φ 3. 2mmX1. 1mm
08	Handpiece dexorative ring	Φ7mmXΦ15. 4mmX2mm
09	Reservoir	350ml/500ml
10	″O″ ring	/
11	Instruction manual	/
12	Warranty card	/
13	Qualified certificate	/

NANNING VV DENTAL CO. ,LTD.

Add: No. 501, 5th Floor and No. 601, 6th Floor, No. 1 Preparation Workshop, Jinhong Pharmaceutical Production Base, No. 7 Luolai Road, Xixiangtang District, Nanning City, Guangxi 530007 China

Tel: 0086-771-5801312
Fax: 0086-771-5801312
E-mail:vv@vvdentalchina.com

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician or a licensed practitioner

Date of Compilation: 2025.09.10

vv/sms-003

Warranty Instruction

I Period of validity:

One year's free repair for the whole unit (except for the easily-consumed parts) from the date of purchase. Lifetime maintenance.

II Range of warranty:

Wthin the warranty period of validity, we are responsible for any troubles caused by quality problems or products technique and structure.

III The following are beyond our warranty:

1 The damage caused by disobeying the operation instruction or lack of the needed condition.

2 The damage caused by unsuitable operation or disassembly without authorization.

3 The damage caused by unadvisable transportation or preservation.

4 There isn't the seal of distributor or the warranty card isn't filled in completely.

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Warranty Card

Name of Customer		(II) For Distributor
Address Details		
Postal Code		
Tel		
Model		
Unit No.		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer

NANNING VV DENTAL CO., LTD.

Add: No. 501, 5th Floor and No. 601, 6th Floor, No. 1 Preparation Workshop, Jinhong Pharmaceutical Production Base, No. 7 Luolai Road, Xixiangtang District, Nanning City, Guangxi 530007 China

Tel: +86-771-5801312
Fax: +86-771-5801312
E-mail: vv@vvdentalchina.com

Distributor:

Seal

Warranty Card

Name of Customer		(III) Return to Manufacturer
Address Details		
Postal Code		
Tel		
Model		
Unit No.		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer

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