

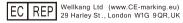
OPERATION INSTRUCTION



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for more information

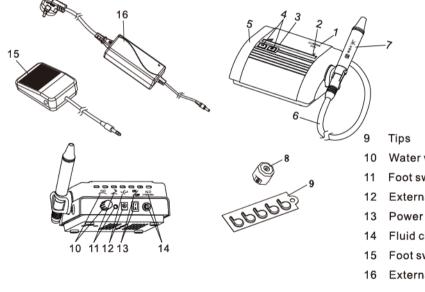
K₀8D **ULTRASONIC SCALER**

Rev. 06/20 https://stomshop.pro

CONTENTS

Components	2
Copyright and statement	3
Warning	4
The installation and components of equipments	5
Installation and connection	6
Preparing for treatment	7
Manual for wrench	8
Setting the ultrasound power	
Setting the liquid flow rate	9
Foot switch functions	10
End of treatment	10
Additional information	11
Sterilization and maintenance	12
Maintenance	14
Safety precautions	14
Storing the product	16
Disposal	16
Warranty	17
Accessories	17
VRN service	18
Symbols	19
Technical date	
Troubleshooting	
Troubleshooting for the electric-magnetic valve	
EMC declaration	26

COMPONENTS



- Model and LOGO
- Power On/Off LEDs
- Power control LEDs
- Power control buttons
- 5 Unit
- Detachable cable
- Detachable handpiece
- 8 Tip wrench

- Water volume knob and icon
- Foot switch connection and icon
- External power supply connection and icon
- Power switch and icon
- Fluid circuit connection and icon
- Foot switch
- External power supply

COPYRIGHT AND STATEMENT

Copyright © Guilin Veirun Medical Technology Co., Ltd.

Congratulations to become valued customers of Guilin Veirun Medical Technology Co., Ltd. Thanks for using KORD ultrasonic scaler. It will bring you the new experiences and conveniences.

This instruction manual is including the latest information when printing. Guilin Veirun Medical Technology Co., Ltd reserves the rights to change the design of the equipment, the technique, fittings the instruction manual and the content of original packing list at any time without notice. If there are some differences between blueprint and real product, take the real product as the norm.

This instruction manual is protected by copyright law. Without any official authorization, any form of duplication, copy or translated into another language is not allowed.

Read the instruction manual originally delivered with each of the components before using this product, and follow the instruction manual to operate. Otherwise, Guilin Veirun Medical Technology Co., Ltd does not take any responsibility for any errors and damage to the product because of violation operation.



Note: Guilin Veirun Medical Technology Co., Ltd does not promise any implied guarantee to the product special use for merchantability and applicability.

If you need after-sale service support, please contact with authorization dealer or manufacturer.

Wainning

The device is not suitable for use in the presence of flammable anesthetic mixtures with air or with oxygen or nitrous oxide.

The device requires no calibration.

The device is not repairable and contains no user serviceable parts.

No modification of this equipment is allowed. (3rd Edition)

The user must check that the equipment functions safely and see that it is in proper working condition before being used.

The manufacturer does not require such preventive inspections by other persons.

The installation and components of equipment

Instruction

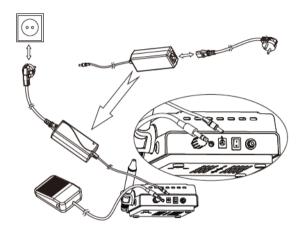
Guilin Veirun Medical Technology Co., Ltd. is a professional manufacturer in researching, developing and producing ultrasonic scalers. The product is mainly used for teeth cleaning and is also an indispensable equipment for tooth disease prevention and treatment. The product K08D ultrasonic scaler has scaling, perio and endo functions. It contains the following features:

- Automatic frequency tracking ensures that the machine always works on the best frequency and performs more steadily.
- The handpiece is detachable and can be autoclaved to the high temperature of 135℃ and the pressure of 0.22MPa.
- · Digitally controlled, easy operation and more efficient for scaling.

Components

- The components of machine are listed in the packing list.
- Product performance and structure Ultrasonic scaler is composed of electro circuit, water way and ultrasonic transducer.
- The device is used for the dental calculus elimination and root canal irrigation.

INSTALLATION AND CONNECTION





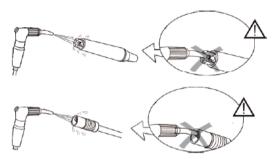
Always check that the unit is installed in a safe and stable position. An eventual fall maysuddenly pull on the cord and the handpiece, hurting the patient and the user, and damaging the unit.

Check that the rated voltage of the power supply corresponds to the local line voltage to prevent damaging the unit.

Use the unit only in a FI protected mains supply (FI = Residual current protection).

For USA or Canada: connect only to an Hospital Grade outlet.

PREPARING FOR TREATMENT





Clean, disinfect and sterilize the different pieces and accessories of this product before each use. Please refer to the information provided in the operating instructions. Non-sterile pieces and accessories may cause bacterial or viral infections.

Blow dry the connections to remove eventual presence of liquid to ensure a proper electrical contact. Never blow compressed air in the irrigation connections as this will irremediably damage internal parts

MANUAL FOR WRENCH



The device is used for the dental calculus elimination and root canal irrigation. With a special structure design, wrench makes sure that users can handling the tip effectively during

Using it, and protects user's hand from hurting in the process of loading and unloading the tip.

Sterile environment: Temperature 135 degrees, Pressure 0.22Mpa, in the steam.

Steps:

(1) Align the legs of the wrench to the tip.

(2)Install the tip: grip the handle, rotate the tip in right-handwise till the tip dose not turn round anymore.

(3)Unloading the tip: grip handle then rotate the tip in counter-clockwise by wrench to remove it.

(4)Once after using, please put the wrench into disinfection cabinet to disinfect.

(5) After disinfection, the surface temperature of the wrench is too high to be used again, so users must wait until it is cool down, avoiding hurt.

(6) When not use the wrench, put it at some place that is dry and ventilated, and keep it clean.

SETTING THE ULTRASOUND POWE



Using the vibration intensity knob increases or decreases the power of the ultrasound. Adjust vibration ntensity on-demand, generally, the medium is right, it also can be adjusted in the clinical course according to the sensitivity of patients and the hardness of the dental stone.



 $^{\prime\prime}$ Adjust power to the lowest when just turn on the host.

SETTING THE LIQUID FLOW RATI



Depress the foot switch, and the tip starts vibrating, and then revolve the water volume knob and the water spraying puffs, it will cool down the handle and clean the surface of teeth.

Never work dry to avoid heat damage on the tooth. The tip of the instrument immediately heats up when used dry.



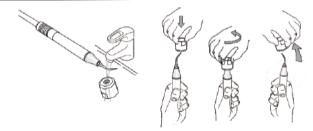
Adjust water volumn to larger when just turn on the host.

FOOT SWITCH FUNCTIONS



END OF TREATMENT

10 of 31





Please conform to the recommendations of the "Reprocessing Instructions" manual delivered with your product regarding the procedures of cleaning, disinfecting and sterilizing of the components.

ADDITIONAL INFORMATION

K08D Ultrasonic scaler has a endo function with the use of the E1 or E2 endo chuck provided by Guilin Veirun medical technology Co., LTD., which can grip the ultrasound root canal file with a outer diameter of 0.8mm 15#-40#.

Use steps:

- 1) Fix the endo chuck on the top of handpiece by using the endo wrench.
- 2) Screw off the nut of the endo chuck.
- 3) Insert the ultrasound root canal file into the endo chuck.
- 4) Screw down the nut of endo chuck tightly by using the endo wrench.
- 5) Press the "-" and "+" buttons at the same time, then the function indicator light would show E from G and the machine turns into the endo mode.
- 6) Put the ultrasound root canal file into patient's tooth root tube slowly, and then begin the root-canal therapy by stepping down the foot switch. You could adjust the power according to need.

Note:

- 1) Make sure the endo chuck must be tightened during its installation.
- 2) Make sure the nut must be tightened during its installation.
- 3) Ultrasound root canal file must be inserted into the bottom of endo chuck.
- 4) Do not press hard when the tooth root tube is processing root-canal therapy.
- 5) Do not step down the foot switch until the ultrasound root canal file is not put into root tube.
- 6) During the endo function, we advice to slowly increase the inchoate power control from 1 to

https://stomshop.pro 5 grade.

Sterilization and maintenance

Sterilization of detachable handpiece
Autoclaved under high temperature/pressure:

- 1)121°C/1bar(0.1MPa) 20 minutes
- 2)135℃/2.2bar(0.22MPa) 15 minutes
- 3)Pull out the handpiece and unscrew the scaling tip and endochuck after each operation
- 4)Pack the handpiece with sterile gauze or sterile bag before sterilizing.
- 5) Reuse handpiece after it cools naturally in case of scalding hand.



Notice

- 1)Dry the cleaning liquid in the handpiece with compressed air before sterilization.
- 2)Be sure that the scaling tip has been unscrewed from the handpiece and it cannot be sterilized with others.
- 3)Please check whether the outer of the handpiece is damaged during the treatment or sterilization, and do not apply any protective oil on the surface of handpiece.
- 4)There are 2 waterproof O-ring at the end of handpiece. Since sterilization and repeated pulling and inserting will reduce its using life, please lubricate them with dental lube frequently.

 Change the new O-ring if it is damaged or worn excessively.
- 5)The sterilizable parts can be sterilized over 250 times.
- 6) The following sterilizing methods care forbidden:







- · Put handpiece into any liquid for boiling;
- · Dip handpiece in disinfectors such as iodine, alcohol and glutaraldehyde:
- · Put handpiece into oven or microwave oven for baking.

Sterilization of tips and endochuck

All the scaling tips and endochuck can be autoclaved under high temperature and pressure.

Sterilization of wrench and endo wrench

- 1)The wrench and endo wrench can be sterilized under high temperature and pressure.
- 2)The following sterilization methods for wrench are forbidden:
- · Braise in liquor;
- · Dip in iodine, alcohol or glutaraldehyde;
- · Torrefy in oven or microwave oven



Notice:

We are not responsible for any damage of the torque wrench directly or indirectly made by any way in the above items.

Clean of tips, endochuck, wrench and endo wrench

The scaling tip, endochuck, wrench and endo wrench can be cleaned by ultrasonic cleaner.

MAINTENANCE





Always use VRN original parts. Using non-original instruments may damage the unit, and practitioner or patient may be injured.

SAFETY PRECAUTIONS

VRN and the dealer of this product accept no liability for direct or consequential injury or damage resulting from improper use, arising in particular through non-observance of the operating instructions, or improper preparation and maintenance.



Contraindication: ultrasonic oscillations may prevent cardiac pace makers and defibrillators from functioning properly. Therefore, we recommend that patients with a cardiac pace maker or a defibrillator should not be treated with this product.

Use for the intended purpose only: before using the product, make sure that you have studied the operating instructions. This also applies to any equipment used with this product. Failure to observe the operating instructions may result in the patient or user suffering serious injury or the product.

Risk of explosion: do not use this product in the presence of inflammable anaesthetics or gases.

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

Clean, disinfect and sterilize the different pieces and accessories of this product before each use.

Please refer to the information provided in the operating instructions. Non-sterile pieces and accessories may cause bacterial or viral infections.

This product has been investigated with regard to safety from electrical shock and fire hazard.

ETL (Electrical Testing Laboratories) has not investigated the physiological effects.

Always examine the product for damage before commencing treatment. Damaged accessories or a damaged unit must not be used and must be replaced. Use original VRN spare parts and accessories only.

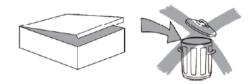


Have this product exclusively repaired by an approved VRN repair center.

Use exclusively the external power supply delivered with the VRN unit.

Certain types of mobile telecommunication equipment could potentially interfere with this oroduct. The separation distances recommended in the "Electromagnetic compatibility" manual must be taken into account.

STORING THE PRODUCT





Keep the original packaging until the product is to be disposed of permanently.

It can be used for shipping or storing at any time.

Should you wish to put your product out of use for an extended period of time:

- · Proceed as described in the "Cleaning, disinfecting and sterilizing" chapter,
- · Pack the product and all accessories in the original packaging.

Please refer to the storage and transport conditions in the "Technical data" chapter.

DISPOSAL

16 of 31

The product must not be discarded in domestic household waste.

Should you wish to definitively dispose of the product, please comply with the regulations which apply in your country.

Waste Electrical and Electronic Equipment belonging to customers located in the European Union may be shipped to VRN for recycling in accordance to the WEEE regulations. The costs of recycling, exclusive of shipping fees, are covered by VRN.

WARRANTY

Damages due to non-adherence to the operating instructions or wear out of parts are excluded from warranty.



The warranty of your product will be cancelled if you try to open it.

ACCESSORIES

Accessories are available from VRN or any authorized dealers. Please contact your customer service directly.

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VRN SERVICE

Should your product need additional servicing or repairs, please send it to your dealer or to an authorized VRN Repair Center.

In the case of non-authorized repairs or damages due to non-adherence to the operating instructions, VRN accepts no liability whatsoever. This will also void the warranty.

It is best to ship your product in the original packaging. It protects your product against damage during shipment.



Risk of transmitting micro-organisms! To protect the personnel of the repair center and for safety reasons during transport and shipment, the product and the accessories returned to the factory for repair or revision must be cleaned, disinfected and sterilized in accordance with the operating manual. Repair can be refused for

When sending your product directly to the approved VRN repair center, please include the name of your dealer. This simplifies processing.

SYMBOLS

Y VRNIII*	Manufacturer's logo	\triangle	Caution! Read the operation instruction		Class II equipment	†	Applied part, type BF
Z	Disposal	•••	Manufacturer		Used indoor only	SN	Serial number
135°C \$\$\$	Autoclavable		Storage Humidity	-20°C	Storage Temp		Keep dry
•	Fragile	(3)	Refer to instruction manual / booklet	EC REP	Authorised representative in the European community	C € ₀₁₂₃	CE marking:refers to directive 93/42 EEC,including EN60601-1 and EN60601-1-2
-(•-	Electrical Outlet	*	Foot switch connection	H₂O 0.01Mpa-0.5Mpa	Water supply	ON OFF	Power Switch
	Production date	IPX1	Prevent water droplets intrusion				

TECHNICAL DATA

Description
Models
Classification EN 60601-1

Classification 93 / 42 EEC

Manufacturer Guilin Veirun Medical Technology Co., Ltd. K08D

- Class II

- Applied part, Type BF

- IP 20, unit

- IP X1, foot pedal

Not category AP/APG equipment

Class IIa

Continuous operation

Operating m ode Power Supply Adaptor Input

Adaptor Output 30VDC

Power consumption External power supply

Ultrasonic specifications:

Maximum output Frequency range

Weight

Dimensions in mm (HxWxD)

Operating conditions

Storage and transport conditions

100-240 VAC / 50-60 Hz,1.2 A

30VDC 30VA~48 VA

45W 30V 2m R5.5- 2.5+

8 Watts 25-31kHz Approx. 3kg 55 x 160 x 160 +10 °C to +40 °C

30% to 75% relative humidity

-10 °C to +40 °C

10% to 95% relative humidity 500 hPa to 1 060 hPa air pressure

TROUBLESHOOTING

Fault	Possible cause	Solutions
The scaling tip doesn't vibrate	The power plug is in loose contact	Make the plug insert to the socket well
and there is no water flowing out when stepping on the foot Switch	The foot pedal is in loose contact (wire foot Switch)	Insert the foot switch to its socket tightly
	The fuse in the main unit is broken	Contact the dealers or us
	The battery for wireless control foot Switch died	Change the new batteries
The scaling tip does not vibrate	The tip is in loose contact	Screw the tip on the handpiece tightly
but there is water flowing out when stepping on the foot Switch	The connect plug between the handpiece and the circuit board is in loose contact	Contact the dealer or us
	Handpiece problem	Send the handpiece to dealer or us to repair
	Cable problem	Contact the dealer or us
The scaling tip vibrates but there	The water control knob is not on	Turn on the water control knob [note 1]
is no spray when stepping on the foot Switch	There is impurity in the electric-magnetic valve	Take the electric-magnetic valve apart or contact the dealer or us
	The water system is blocked	Clean the water pipe by multi-function syringe [note 2]
There is still water flowing out	The electric-magnetic valve	Contact the dealer or us
after the power is off	problem	
The handpiece generates heat	The water control knob is in a low setting	Turn the water control knob to a higher grade [note 1]

Fault	Possible cause	Solutions	
The amount of spouting water is	The water control knob is in a low	Turn the water control knob to a higher grade	
too little	setting	[note 1]	
	The water pressure is not high enough	Make the water pressure higher	
	The water system is blocked	Clean the water pipe by multi-function syringe [note 2]	
The vibration of the tip becomes weak	The tip has not been screwed on to the handpiece tightly		
	The coupling between the handpiece and the cable is not dry	Dry it by the hot air	
	The tip is damaged [note 3]	Change the new scaling tip	
There is water leaking from the coupling between the handpiece and the cable		Change the new waterproof O-ring	
The U-file does not vibrate	The screw is loose	Tighten it	
	Endochuck is damaged	Change the new endochuck	
There is noise coming from the endochuck	The screw is loose	Tighten it	



Notice

If the problem still cannot be solved, please contact with local dealer or manufacturer.



Notes

【 note 1 】

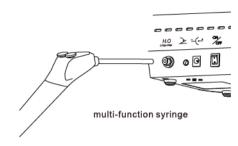
Turn the water control knob as symbol showed. It comes to the min, on the contrary direction, it comes to the max.

[note 2]

- 1)Clean the water pipe with the multi-function syringe of the dental unit;
- 2)Disconnect the water pipe from main unit;
- 3)Get through to the power and turn on the power switch;
- 4)Connect the multi-function syringe of dental unit to the water pipe;
- 5)Disassemble the tip or handpiece;
- 6)Step on the foot switch;
- 7)Turn on the switch of the multi-function syringe, press the water into the machine and the impurity blocked in the water pipe can be eliminated.

[note 3] If the scaling tip has been screwed on tightly and there is fine spray too, the following phenomena show that the scaling tip is damaged:

22 of 31 https://stomshop.pro 23 of 31



TROUBLESHOOTING FOR THE ELECTRIC-MAGNETIC VALVE

If the water is not clean or the electric-magnetic valve works too long, there will be the scale and impurity generated on the inside wall and valve plug. It will cause the water way to be blocked, and could repair as following steps:

- 1) Follow the [note 2]
- 2) Uninstall the electric-magnetic valve by following steps:
- a)Turn off the power, and unplug the power cable;

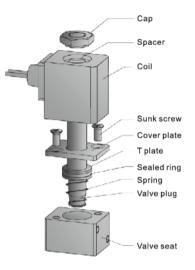
b)Unscrew the cap, and move out the hood of main unit; c)Unscrew the cap on the electric-magnetic valve, and Uninstall the electric-magnetic valve as shown on

Figure;

d)Take out the valve plug, and clean out the impurity on the inside wall;

e)Install the parts as shown on the figure.

f)Ensure the water way is working by repeat [note 2]



24 of 31 https://stomshop.pro 25 of 31

EMC DECLARATION

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions			
The [KO8] is intended for use in the electromagnetic environment specified below. The customer or the user of the [KO8] should assure that it is used in such an environment			
Emissions test	Compliance	Electromagnetic environment - guidance	
RF emissions CISPR 11	Group 1	The [K08] 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 CISPR 11	Class [B]	The [K08] is suitable for use in all establishments other than domestic, and may	
Harmonic emissions IEC 61000-3-2	Class A	be used in domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	used for domestic purposes, provided the following warning is heeded: Warning: This equipment/system is intended for use by healthcare professionals only. This equipment/ system may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to take mitigation measures, such as re-orienting or relocating the [KO8] or shielding the location.	

Table 2

Guida	Guidance and manufacturer's declaration - electromagnetic emissions				
The [K08] is intende	The [K08] is intended for use in the electromagnetic environment specified below. The customer				
or the us	er of the [K08] sho	uld assure that it is u	sed in such an environment		
Immunity Test IEC 60601 Compliance level Electromagnetic environme					
	Test level		guidance		
Electrostatic	±6 kV contact	±6 kV contact	Floors should be wood, concrete or		
discharge (ESD)	±8 kV air	±8 kV air	ceramic tile. If floors are covered		
IEC 61000-4-2			with synthetic material, the relative		
			humidity should be at least 30 %		
Electrical fast	±2 kV for power	±2 kV for power	Mains power quality should be that		
transient/burst	supply lines	supply lines	of a typical commercial or hospital		
IEC 61000-4-4	±1 kV for	±1 kV for	environment.		
	input/output	input/output			
	lines	lines			
Surge	±1 kV line(s) to	±1 kV line(s) to	Mains power quality should be that		
IEC 61000-4-5	line(s)	line(s)	of a typical commercial or hospital		
	±2 kV line(s) to	±2 kV line(s) to	environment.		
	earth	earth			

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U _T (>95% dip in U _T) for 0.5 cycle 40% U _T (60% dip in U _T) for 5 cycle 70% U _T (30% dip in U _T) for 25 cycle <5% U _T (>95% dip in U _T)	<5% U _T (>95% dip in U _T) for 0.5 cycle 40% U _T (60% dip in U _T) for 5 cycle 70% U _T (30% dip in U _T) for 25 cycle <5% U _T (>95% dip in U _T)	Mains power quality should be that of a typical commercial or hospital environment. If the user of the [K08] requires continued operation during power mains interruptions, it is recommended the [K08] be powered from an uninterruptible power supply or a battery.	
	(>95% dip in U _T) for 5s	(>95% dip in U _T) for 5s		
Power frequency (50/60Hz) magnetic field IEC 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. mians voltage prior to application of the test level.				

Table3

e3			
	Guidance a	nd manufactu	rer's declaration - electromagnetic emissions
The [K08] is in			omagnetic environment specified below. The customer or the
	user of the	e [K08] should	assure that it is used in such an environment
Immunity IEC 60601 Compliance Electromagnetic environment		Electromagnetic environment - guidance	
Test	Test level	level	
			Portable and mobile RF communications equipment should
			be used no closer to any part of the [K08], including cables,
			than the recommended separation distance calculated from
			the equation applicable to the frequency of the transmitter.
			Recommended separation distance
Conducted RF IEC 61000-4-6	3Vrms 150KHz to 80MHz	3V	$d = 1.2\sqrt{P}$
Radiated RF	3 V/m	3 V/m	$d = 12\sqrt{P}$ 80 MHz to 800 MHz
IEC 61000-4-3	80MHz to 2.5GHz		$d = 1.2\sqrt{P}$ 80 MHz to 800 MHz $d = 2.3\sqrt{P}$ 800 MHz to 2,5 GHz
			where <i>p</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in metres (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. Interference may occur in the vicinity of equipment marked with the following symbol:



NOTE 1 At 80 MHz and 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.

Table 4

Recommended separation distances between portable and mobile RF communications equipment and the [K08]

The [K08] is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the [K08] can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the [K08] as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output	Separation distance according to frequency of transmitter					
power of transmitter	m					
l w	150 kHz to 80 MHz 80MHz to 800MHz 800MHz to 2.5GHz					
	$d = 1.2\sqrt{P}$	$d = 1,2\sqrt{P}$	$d = 2,3\sqrt{P}$			
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	23			

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (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.

^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 [K08] is used exceeds the applicable RF compliance level above, the [K08] should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the [K08].

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

