

全球认证 本地化服务 Local Service For Global Certification

DNV GL2014

2014 9 24 DNV GL

2014

DNV GL

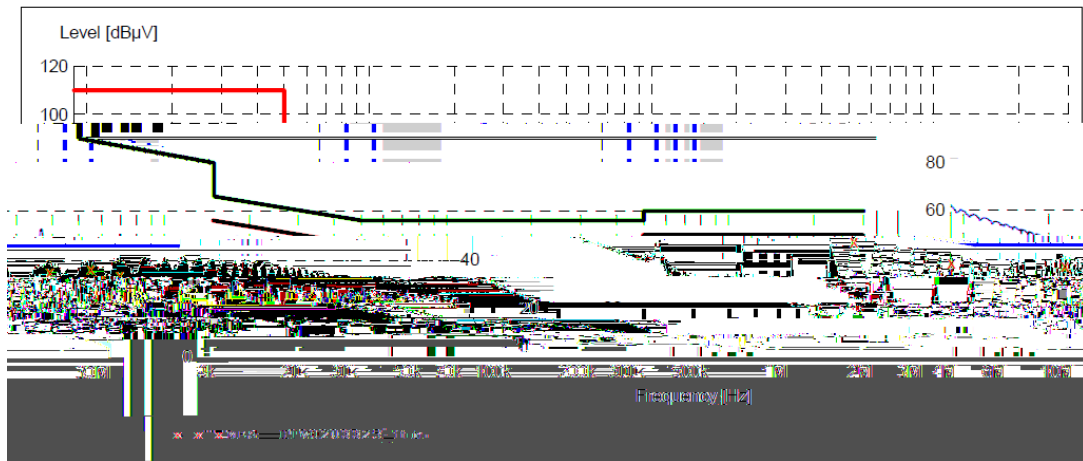
DNV GL 2014



Frequency range	Limits	
	Average	Quasi-peak
90 to 150 ^a	66 to 56 ^b	50 to 40 to 150 ^a
150 kHz to 0.5 MHz	56 to 46 ^b	150 kHz to 0.5 MHz

^a In Japan, the limits in the frequency range 9 kHz to 150 kHz do not apply.

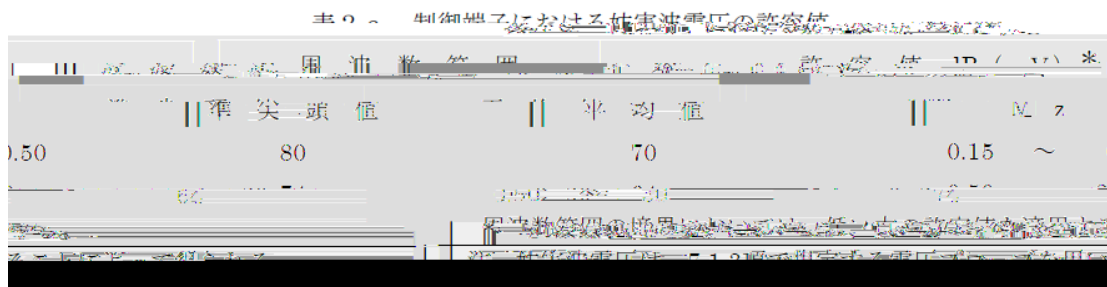
^b NONE in Japan.



EN 55015 0.15-0.5MHz

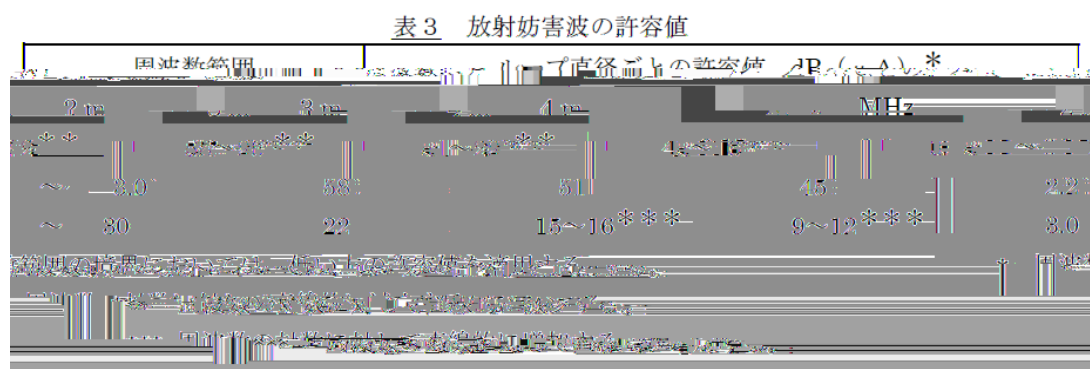
Mode (V)	Average	Frequency range (MHz)	Quasi-peak
74 to 64	0.15 to 0.50	84 to 74	
64	0.50 to 0.70	74	

J55015(H20) 0.15-0.5MHz 80 dBuV() 70 dBuV()

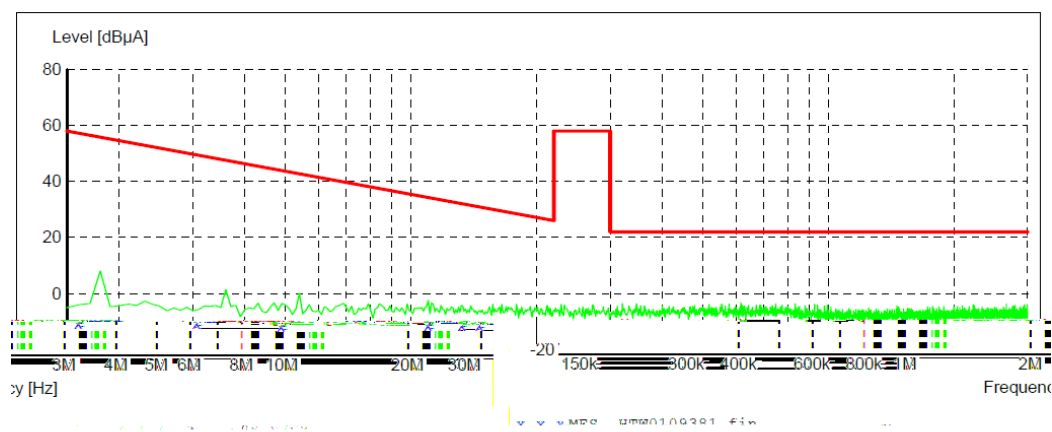


J55015

0.15-30MHz

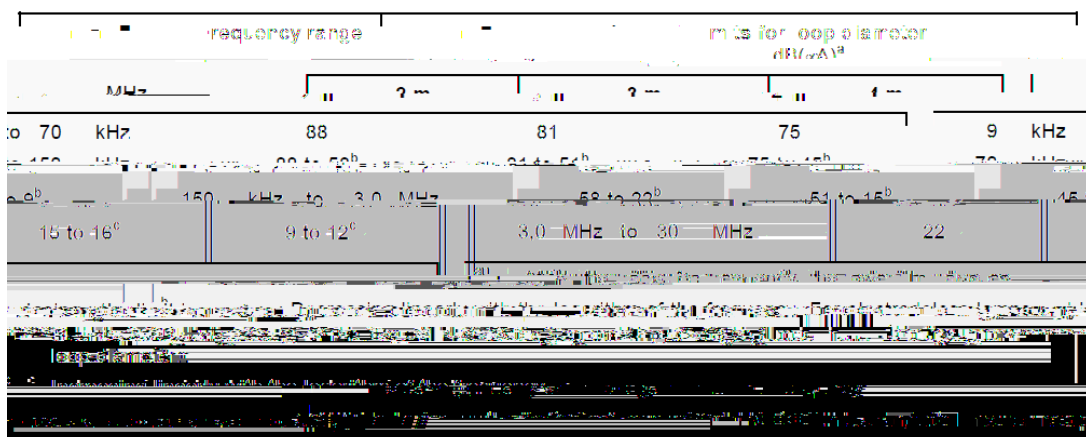


2m

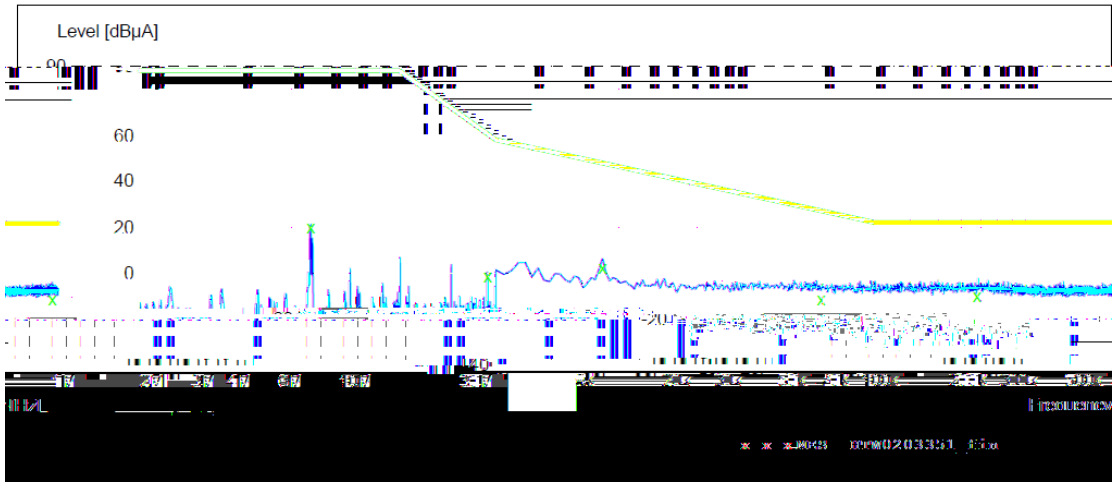


EN 55015

0.009-30MHz



2m



J55015

EN 55015

10m

30-300MHz

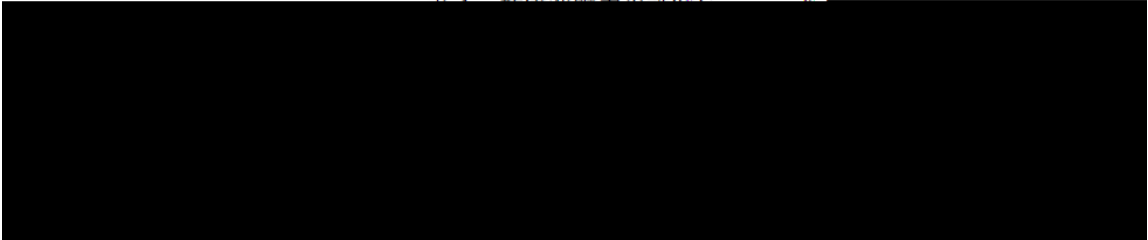
B

CDN

Frequency range MHz	Quasi-peak limits dB(μV/m) *
30 to 230	30
230 to 300	37

* At the transition frequency, the lower limit applies.

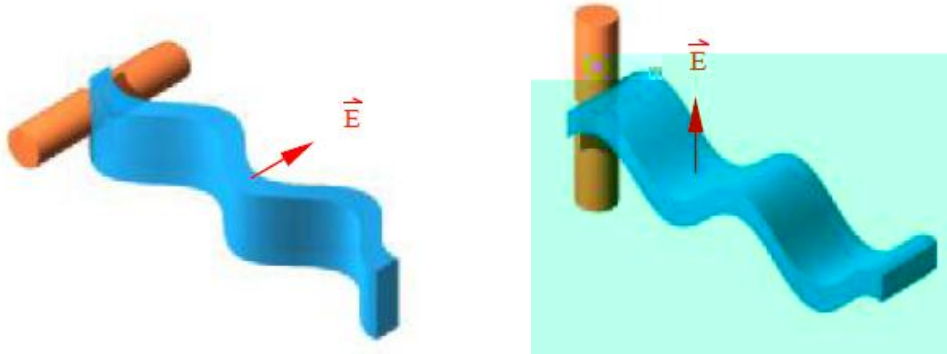
J55015



EN 55015

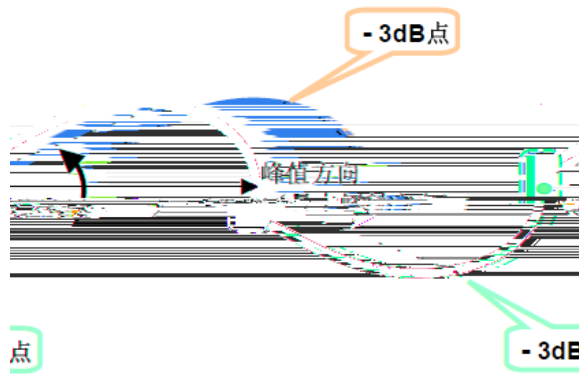
EMC RF , :

1.



2.

3 dB



3.

100W

$$G = 13 \text{ dB} = 20$$

$$100 / 20 = 5 \text{ W} .$$

4. (AF)

$$AF = E/U(E - U - \dots)$$

5.

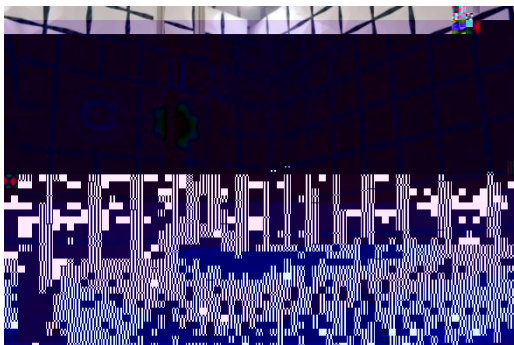
6.

Ω

Ω

7.

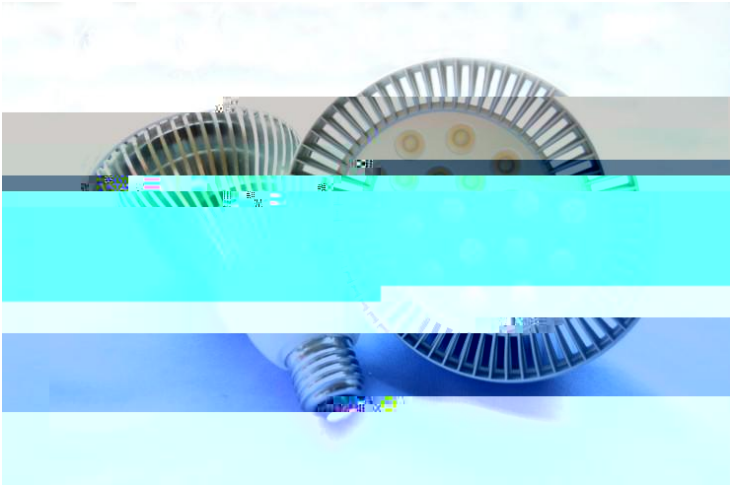
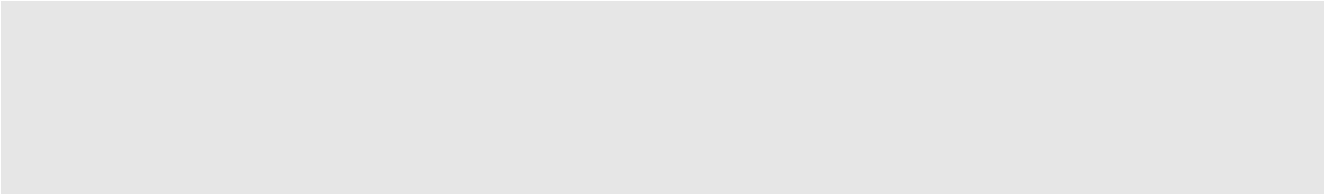
8.



文/华通威 安规检测部

2014 7 16 2014 23
2014 9 1

1. “ -- ” “ LED ”
2. “ — ” “ SRCD) ” “
— ” “ B B RCCB B RCBO
SMCB) ”
3. “ ” “ JB/T8735.2-2011 JB/T8734.2~.6-2012 ”
2015 9 1



IEC 60601-1

文/华通威 安规检测部

IEC 60601-1

3.1 2014-09-16

International Medical Base Standards
IEC General Standard: <u>IEC 60601-1, Edition 3.1 (2012-11-14) + Corr. 1 (2012-11-14) =</u> IEC 60601-1, Edition 3 (2005-12) Ed. 3, Corr. 1 (2006-12), Corr. 2 (2007-12), IS1 (2008-04), IS2 (2009-01-28), Am. 1 (2012-07), IS3 (2013-05) <i>Note, Corr. 1 in Ed. 3.1 was Corr. 2 in Ed. 3, but was mistakenly left out of the amended Ed. 3.1</i>
National Deviations: USA: <u>ANSI/AAMIES 60601-1:2005(R) 2012</u> (11-2012) = ANSI/AAMIES 60601-1:2005 (02/05), + Amendment 1 CANADA: <u>CSAC 22.2 No. 60601-1:14</u> (2014) = CSAC 22.2 No. 60601-1:2008, + Amendment 1 EUROPEAN UNION: <u>EN 60601-1:2006+A1:2013</u> (2013) = EN 60601-1, Ed. 3 (2007-07), + Amendment 1 (2011), + Amendment 1 (2013)
<u>IEC 60601-1-xx (Collaterals):</u> 60601-1-01: Safety Requirements for Medical Electrical Systems. Ed. 2. (Now in base standard) 60601-1-02: Electromagnetic Compatibility-Requirements and Tests. Ed. 3 (2007-03), IS1 (2010-03), Ed. 4 (2014-02) 60601-1-03: Gen. Requirements for Radiation Protection in Diagnostic X-ray Equipment. Ed. 2. (2008-01), A2 ret. 1 (2013-10), Ed. 2.1 (2013-04) 60601-1-04: Programmable Electrical Medical Systems. (Now in base standard) 60601-1-05: Image quality and dose for X-ray equipment (Cancelled) 60601-1-06: Usability Ed. 3. (2010-01), A2 ret. 1 (2013-10), Ed. 3.1 (2013-10) - Requires <u>IEC 62366</u> (Usability, Medical Devices) Ed. 1 (2007-10) 60601-1-07: General requirements for multiparameter patient monitoring equipment (Moved to IEC 60601-2)

IEC60601-2-xx, IEC/ISO80601-2-xx(Particulars):

60601-2-01: Medical Electron Accelerators in the Range 1 MeV to 50 MeV. Ed.3. (2009-10), Am.1 (2014-07), **Ed.4 (project 2016-10)**

60601-2-02: High Frequency Surgical Equipment. Ed.5. (2009-02), Corr.1 (2014-02)

60601-2-03: Short-Wave Therapy Equipment. Ed.3 (2012-04)

60601-2-04: Cardiac Defibrillators, Defibrillator-Monitors. Ed.3. (2010-12)

60601-2-05: Ultrasonic Therapy Equipment. Ed.3. (2009-07)

60601-2-06: Microwave Therapy Equipment. Ed.2 (2012-04)

60601-2-07: ~~High Voltage Generators of Diagnostic X-ray Generators.~~ (Incorporated into IEC 60601-2-54)

60601-2-08: Therapeutic X-ray Equipment in the Range 10 kV to 1 MV. Ed.2. (2010-11), **Am.1 (Project 2015-09)**

60601-2-09: ~~Patient Contact Dosimeters used in Radiotherapy with Electrically Connected Radiation Detectors.~~ (Cancelled)

60601-2-10: Nerve and Muscle Stimulators. Ed.2. (2012-06)

60601-2-11: Gamma Beam Therapy Equipment. Ed.3. (2013-01)

80601-2-12 (ISO): Critical Care Ventilators. Ed.1. (2011-05)

80601-2-13 (ISO): Anesthetic Workstation. Ed.1 (2011-08), **Ed.2 (Project 2014-11)**

60601-2-14: ~~Electroconvulsive Therapy Equipment (1989-03)~~ (Withdrawn)

60601-2-15: ~~Capacitor Discharge X-ray Generators (1988-12)~~ (Withdrawn)

60601-2-16: Hemodialysis Equipment. Ed.3. (2008-04), Corr.1. (2008-10); Ed.4. (2012-03)

60601-2-17: Automatically-controlled brachytherapy afterloading equipment. Ed.3. (2013-11)

60601-2-18: Endoscopic Equipment. Ed.3. (2009-08)

60601-2-19: Infant Incubators. Ed.2. (2009-02), Corr.1 (2012-02)

60601-2-20: Infant transport incubators. Ed.2. (2009-02), Corr.1 (2012-02), Corr.2 (2013-02)

60601-2-21: Infant Radiant Warmers. Ed.2. (2009-02), Corr.1 (2013-02)

60601-2-22: Surgical, cosmetic, therapeutic, and diagnostic laser equipment. Ed.3. (2007-05), Am.1. (2012-10), Ed.3.1 (2012-10)

60601-2-23: Transcutaneous Partial Pressure Monitoring Equipment. Ed.3. (2011-02)

60601-2-24: Infusion Pumps and Controllers. Ed.2 (2012-10)

60601-2-25: Electrocardiographs. Ed.2. (2011-10)

60601-2-26: Electroencephalographs. Ed.3. (2012-05)

60601-2-27: Electrocardiographic Monitoring Equipment. Ed.3. (2011-03), Corr.1 (2012-05)

60601-2-28: ~~X-ray tube assemblies for medical diagnosis.~~ Ed.2. (2010-03)

60601-2-29: Radiotherapy Stimulators. Ed.3. (2008-06)

80601-2-30 (IEC/ISO): Automated non-invasive sphygmomanometers. Ed.1 (2009-01), Corr.1 (2010-01), Am.1 (2013-07), Ed.1.1 (2013-07)

60601-2-31: External Cardiac Pacemakers with Internal Power Source. Ed.2. (2008-03), Am.1. (2011-06), Ed.2.1. (2011-09)

60601-2-32: Associated Equipment of X-ray Equipment. (Incorporated into IEC 60601-2-54)

60601-2-33: Magnetic Resonance Equipment for Medical Diagnosis. Ed.3 (2010-03), Corr.1 (2012-03), Am.1 (2013-04), Ed.3.1 (2013-04), **Am.2 (Project 2015-07)**

60601-2-34: Invasive Blood Pressure Monitoring Equipment. Ed.3 (2011-05)

80601-2-

60601-2-44: X-ray Equipment for Computed Tomography. Ed.3. (2009-02), Corr.1. (2010-05), Am.1. (2012-08), Ed.3.1 (2012-09)

60601-2-45: Mammographic X-ray equipment and mammomagraphic stereotactic devices. Ed.3. (2011-02), Am.1 (2014-08), Am.1 (Project 2014-08)

60601-2-46: Operating Tables. Ed.2. (2010-12).

60601-2-47: Ambulatory Electrocardiographic Monitors [Holter Monitors]. Ed.2. (2012-02)

60601-2-48: Canceled

60601-2-49: Multiparameter Patient Monitoring Equipment. Ed.2. (2011-02)

60601-2-50: Infant phototherapy equipment. Ed.2. (2009-03), Corr.1. (2010-08)

60601-2-51: Recording and analyzing single and Multichannel electrocardiographs. (Incorporated into IEC 60601-2-25)

60601-2-52: Safety of Medical Beds (replaces IEC 60601-2-38). Ed.1. (2009-12), Corr1. (2010-09), Am.1 (Project 2014-09)

60601-2-53: Computer Assisted Electrocardiography Communication Protocol. Ed.1 (Canceled)

60601-2-54: X-ray equipment for radiography and radioscopy. Ed.1. (2009-06), Corr.1. (2010-03), Corr.2. (2011-06), Am.1 (Project 2015-02)

80601-2-55 (ISO): Respiratory gas monitors. Ed.1. (2011-12), Ed.2 (Project)

80601-2-56 (ISO): Clinical thermometers for body temperature measurement. Ed.1. (2009-012), Ed.2 (Project)

60601-2-57: Non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use. Ed.1. (2011-01)

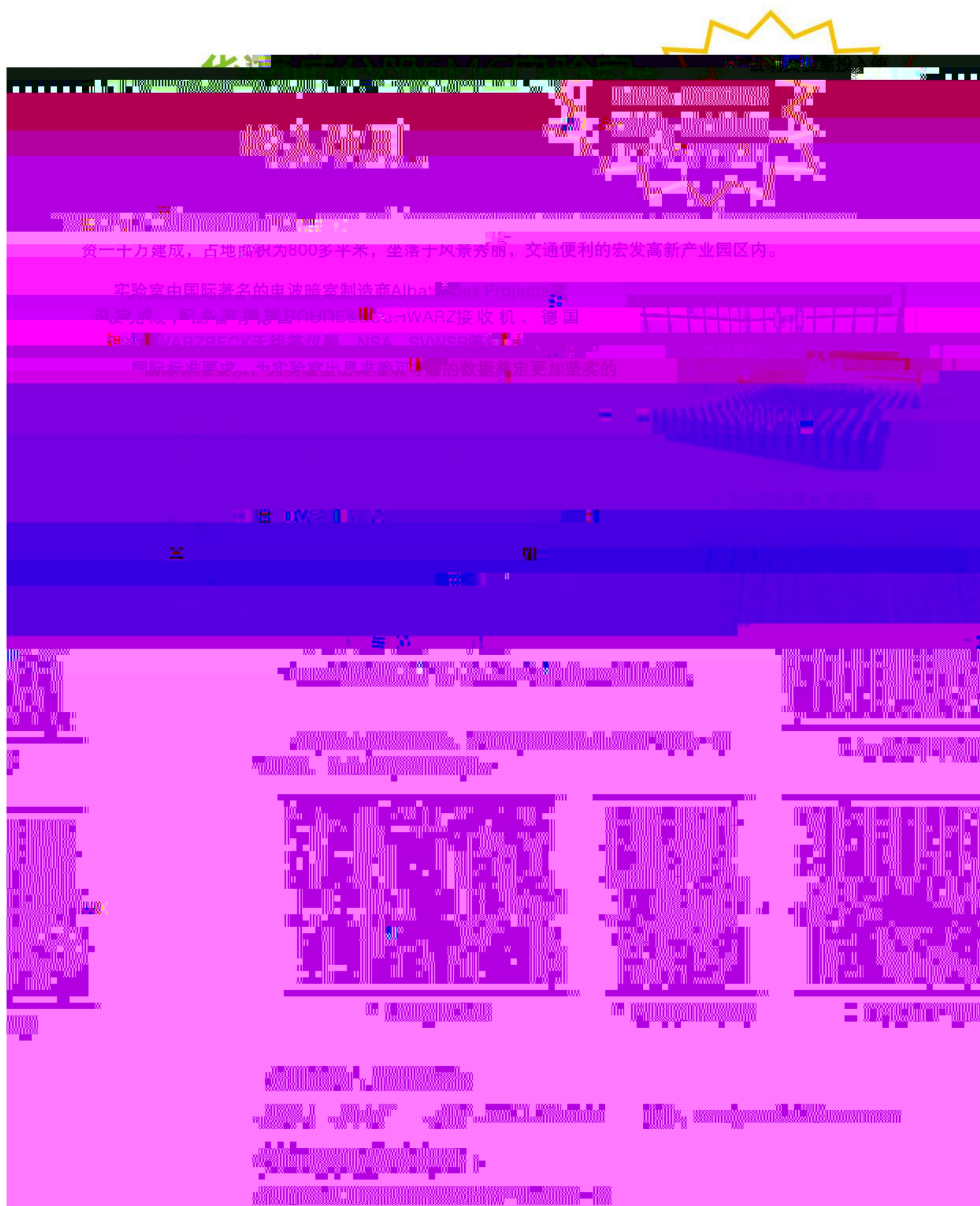
80601-2-58 (IEC/ISO): Lens removal devices and vitrectomy devices for ophthalmic surgery. Ed.1 (2008-10), Ed.2 (2014-09)

80601-2-59 (IEC/ISO): Screening thermographs for human febrile temperature screening, Ed.1 (2008-10), Corr.1. (2009-04)

80601-2-60 (IEC/ISO): Dental equipment. Ed.1. (2012-02)

80601-2-61 (ISO): Pulse Oximeter equipment. Ed.1. (2011-03)

60601-2-



资一十万建成，占地面积为800多平米，坐落于风景秀丽，交通便利的宏发高新产业园区内。

实验室由国际著名的电波暗室制造商Alba Cross Projects
 设立完成，配备有德国RUBENLOCH-WARZ接收机、德国
 WABZBECK天线等仪器，NSA、SIAMSB等符合

国际标准要求，为实验室出具准确可靠的数据奠定更加坚实的

公明实验室交通指南

自驾车线路

广州方向路线：广深高速——

