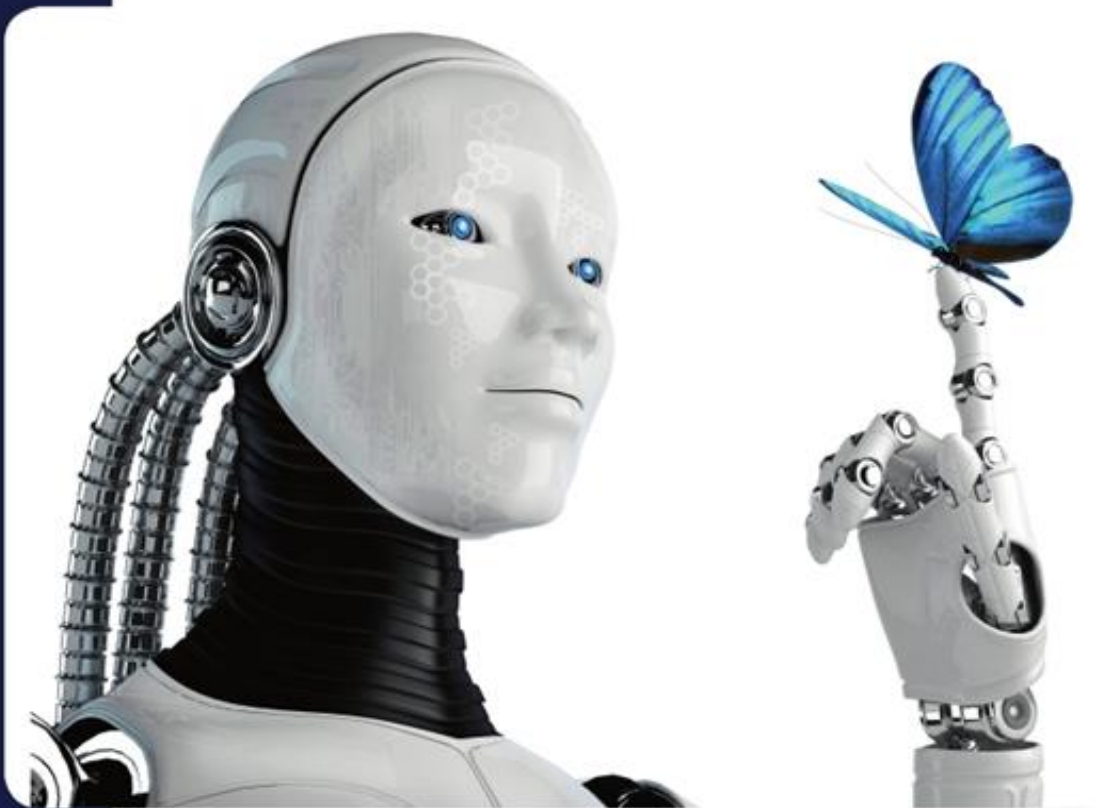


# Newsletter March, 2019



# ICR

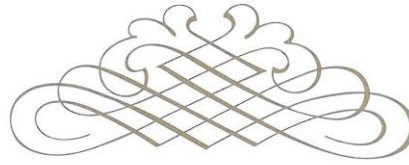


# Hot Issue

1. Recognition of EMC Compliance for SES E 922 Std
2. RRA Completion
3. KIMES 2019 Korea International Medical & Hospital Equipment Show
4. Type of Protection Ex 'p'
5. Information Security Management System
6. The Ministry of Science and ICT(MSIT)
7. Secure additional 5G frequency



# Recognition of EMC Compliance for SES E 922 Std.



## Recognized EMC Test Laboratory

This laboratory is approved to perform **SSANGYONG** electromagnetic compatibility tests:

### Information of EMC Test Laboratory

**Name of Laboratory** : International Certification Registrar (ICR)

**Location of Laboratory** : Gimpo-si, Gyeonggi-do, Korea

### EMC Specification

#### **SES E 922 : Version 8**

<b>Radiated Emission</b>	Section 7.1;
<b>Conducted Emission</b>	Sections 7.2 and 7.3;
<b>Magnetic Field Emission</b>	Section 7.5;
<b>Radiated Immunity (ALSE, BCI)</b>	Sections 7.6 and 7.7;
<b>Magnetic Field Immunity</b>	Section 7.8;
<b>Voltage Transient Emission</b>	Section 7.9;
<b>Electrical Transient Conduction</b>	Section 7.10;
<b>Electrical Transient Transmission</b>	Section 7.11;
<b>Electrostatic Discharge</b>	Section 7.12;

2019 년 02 월 11 일



**쌍용자동차주식회사**

Head of Electric R&D Division. **Jae-Wook Jeong**,

At 11<sup>th</sup> Feb 2019, ICR obtained the Recognition of EMC Compliance for the Electric & Electrics parts form SSANGYONG Motor Group.

# Recognition of EMC Compliance for SES E 922 Std.



- SES E 922 COMPONENT TEST METHOD OF ELECTROMAGNETIC COMPATIBILITY
- CISPR25
  - - Radiated Emission
  - - Conducted Emission Voltage Method
  - - Conducted Emission Current Method
- ISO 11452-2, ALSE Radiated Immunity
- ISO 11452-4, BCI Conducted Immunity
- ISO 11452-8, MFI Radiated Immunity
- ISO 7637-2, Transient Immunity/Emission Power line
- ISO 7637-3, Transient Immunity signal line
- ISO 10605, ESD
- ES96200-00, GSM/무전기 주파수 내성 시험
- MIL-STD-461F RE101, MFE Radiated Emission

# RRA Completion

## (Electromagnetic Test Headquarters)



**지 정 서**  
*Certificate of Designation*

지정번호 (Designation No.) : KR0165

기관명 (Name of CAB) : 주식회사 아이씨알 (ICR Co., Ltd.)

주소 (Address) : 경기도 김포시 양촌읍 황금3로 7번길 112  
(112, Hwanggeum 3-ro 7beon-gil, Yangcheon-eup, Gimpo-si, Gyeonggi-do, Korea)

시험분야 (Scope of Designation) : 무선, 전자파적합성, 전자파강도,  
미국 MRA(USA MRA), 베트남 MRA(Vietnam MRA)

시험항목 (Items of Tests) : 별지 참조 (See Attachment)

위 기관을 「전파법」 제58조의5의 규정 및 ISO/IEC17025:2005에 의하여 방송  
통신기자재등 적합성평가 시험업무를 하는 기관으로 지정합니다.  
*This Laboratory is accredited and designated in accordance with the  
provisions of Radio Waves Act and International Standard ISO/IEC  
17025:2005.*

2019. 2. 27.

국립 전 파 연구 원 장  
*National Radio Research Agency*  
Ministry of Science and ICT

On February 27, 2019 ICR Co., Ltd. has developed all electrical / electronic products in the industrial sector KC test certification / registration is provided.



# KIMES 2019 Korea International Medical & Hospital Equipment Show



The 35th Korea International Medical & Hospital Equipment Show (KIMES 2019) will be held at COEX in Samseong-dong, Seoul, March 14 to 19, 2019. Under the theme of "Meet the Future," the KIMES 2019 covers a total of 40,500 m<sup>2</sup> of COEX exhibition hall 1st floor, 3rd floor and lobby, with 1,403 companies from 36 countries participate

# KIMES 2019 Korea International Medical & Hospital Equipment Show



**Meet  
The  
Future**

During the show, we will introduce 30,000 products including state-of-the-art medical devices, hospital facilities, medical information systems, and medical-related products, as well as academic events of various kinds, including international forum and conferences, medical industry policy seminars, and special classes for medical professionals.

As with KIMES 2018, ICR prepare booths in KIMES 2019 to provide certification services for new products that applied recent changes in the health care environment, And counseling related to the newly revised ISO 13485:2016.



# Type of Protection Ex 'p'

## Explosive Atmosphere – Part 2 : Equipment protection by Pressurized enclosure IEC/EN 60079–2:2014

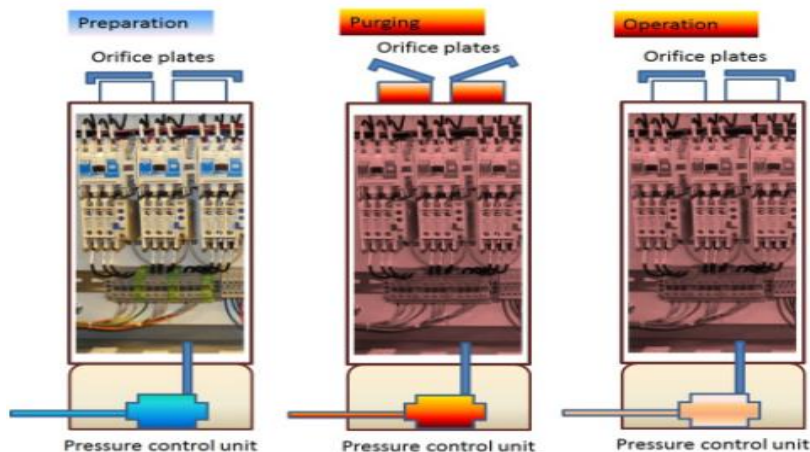
- Pressurized enclosure Ex 'p' is mainly used for the control boxes of machinery used in spaces classified as explosion hazardous areas.
- The primary purpose of the type of protection Ex 'p' is to ensure that the ignition source generated by the internal electrical equipment meets the external explosive atmosphere and does not explode.
- It means that inside the control box, protective gas such as fresh air or incombustible gas is supplied inside the container to keep the internal pressure and prevent the explosive gas from entering.



# Type of Protection Ex 'p'

## Explosive Atmosphere – Part 2 : Equipment protection by Pressurized enclosure IEC/EN 60079-2:2014

- The type of protection 'p' is classified into pxb, pyb, and pzc. It is appropriate type of protection that can be used as a general product (non-explosion proof type).
- For operation of the control box, it is necessary to preliminarily maintain the constant pressure after discharging the explosive atmosphere present inside the container through the positive pressure as shown in the following figure.



# Information Security Management System



- Information Security Management System is a part of the overall management system for establishing, implementing, operating, monitoring, reviewing, maintaining and improving information protection on the organizational risk approach.
- The requirements of ISMS(ISO 27001:2013) can be applied to any organization, regardless of the type and size of the organization.
- The requirements of the information security management system are composed of HLS; and it is easy to establish and operate by integrating with other management system which is established according to HLS.

# Information Security Management System



## ISMS Requirements

<b>4. Context of organization</b>	7.3 Awareness
4.1 Understanding the organization and its context	7.4 Communication
4.2 Understanding the needs and expectations of interested parties	7.5 Documented Information
4.3 Determining the scope of the information security management system	<b>8. Operation</b>
4.4 Information security management system	8.1 Operational planning and control
<b>5. Leadership</b>	8.2 Information Security Risk Evaluation
5.1 Leadership and commitment	8.3 Information Security Risk treatment
5.2 Information Security policy	<b>9. Performance evaluation</b>
5.3 Organization roles, responsibilities and authorities	9.1 Monitoring, Measurement, analysis and evaluation
<b>6. Planning</b>	9.2 Internal audit
6.1 Actions to address risks and opportunities	9.3 Management review
6.2 Objectives, energy targets and planning to achieve them	10. Improvement
<b>7. Support</b>	10.1 nonconformity and corrective action
7.1 resources	10.2 Continual improvement
7.2 Competence	

Measure and publish living environment electromagnetic waves through public participation.

- The MSIT announced that they will implement the "living environment electromagnetic wave safety national communication plan" such as expanding the provision of electromagnetic wave information about products closely related to the people's lives.
- The National Radio Research Agency will measure electromagnetic waves for products applied by citizens through the website from February 18th ([www.rra.go.kr](http://www.rra.go.kr)), and release the results.

Measure and publish living environment electromagnetic waves through public participation.

- and They will tighten market surveillance and verification about product which advertises the effect of intercepting electromagnetic wave and take damage prevention such as filing a complaint with the Fair Trade Commission against the false advertisements.
- In addition, They will measure electromagnetic wave for infant facilities from April and execute consulting for reduction. and they are planning to conduct a factual survey for electromagnetic wave about working environment.



Measure and publish living environment electromagnetic waves through public participation.

- The Korea Communications Agency is planning to lend compact electromagnetic wave monitoring devices for houses and office spaces from the second half to check electromagnetic wave easily.
- In the future, they plan to establish " Electromagnetic Wave Safety Agency ".

# Secure additional 5G frequency



## Ministry of Science and Technology, 5G frequency additional security. Start the supply plan

The Ministry of Science and Technology announced that as part of the 3rd Basic Plan for Promotion of Radio Propagation ('19 ~ '23), it operates a special task force to provide additional 5G (5G) mobile communication frequency. The frequencies of the 700 MHz, 2.3 GHz and 2.5 GHz bands secured for the current mobile communication are limited to use in the broadband frequency in preparation for the increase of the traffic volume in the future.

# Secure additional 5G frequency



Accordingly, the Ministry of Science, Technology and Information and Communication decided to operate a working group composed of experts from industry and academia to find additional 5G frequencies.

First, at the working group, concerning the concern of interference with the public frequency, whether it can be secured as a frequency for mobile communication via interference analysis for the 20 MHz width of the 3.4 to 3.42 GHz band excluded from the previous 5 G frequency auction.

# Secure additional 5G frequency



And plans to consider the possibility of using mobile communication through the investigation of the existing radio station operation and frequency usage survey in the 3.7 to 4.2 GHz band distributed for fixed and fixed satellites is there.

At the same time, considering the international 5 G frequency and the trend of equipment and terminals etc, considering securing additional frequencies even in the band of 24 GHz or more, the proposal on the supply of 700 MHz, 2.3 / 2.5 GHz band frequency (mobile communication frequency) Also plan to have it.



[www.icrqa.com](http://www.icrqa.com)

ICRO-31/R20161125 본 문서는 법률 제 14088호 저작권법의 보호대상이며, ICR의 지적 자산으로 불법 편집 및 복사를 금합니다.

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