

Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: [VLC Regulations : Korea]

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Abstract: [This document presents Korea Regulations related to VLC in order to develop VLC application and the technical specification]

Purpose: [To develop VLC application and the technical specification by Korea Regulations related to VLC]

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VLC Regulations : Korea

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Contents

- VLC Regulation
- LED Regulation
- Safety Regulation
- Spectrum Regulation

No VLC Regulation

- No VLC Regulation
 - Due to Just start up technology
 - Beyond frequency spectrum
- A Little related regulations
 - LED Lamp for safety
 - EMC(Electromagnetic compatibility)

Green Growth: LED Promotion

- LED Promotion Project
 - 1530 project
 - The 1530 project has the plan that replaces traditional lamp with LED lamps up to 30% ratio by year 2015
 - The goal of project is for the reduction of the electrical power consumption
- No more use incandescent (electric bulb) Lamp
 - Korea(2013), EU(2012), Australia(2013), USA(2014)

LED Lamp Regulation

- LED Lamp
 - LED Traffic Signal
 - LED leading Lamp
 - LED Lamp with AC/DC Converter
- The goal of LED regulation
 - Energy Saving
 - Electrical Safety
- Measurement item by regulation
 - Luminous Intensity, Luminous Intensity Stability, Chromaticity

Regulations related to Lamps

- Regulation related to Lamp
 - IEC 60050 - International Electro Technical Vocabulary
 - IEC 60061 - Lamp caps and holders
 - IEC 60360 - the standard method of measurement of lamp cap temperature
 - IEC 60695-2-1-1 - Fire hazard testing
 - IEC 61000-3-2 - Electromagnetic compatibility (EMC)
 - IEC 61347-2-13 - Lamp control gear
 - IEC 61547 - lighting equipment which is within the scope of IEC technical committee 34, such as lamps, auxiliaries and luminaires, intended either for connecting to a low voltage electricity supply or for battery operation.
 - IEC 62384 - DC or AC supplied to electronic control gear for LED modules - Performance requirements
- No Regulatory for VLC

Other Regulations

- Eye/Skin Safety
 - Not yet found
- Spectrum Frequency
 - 9 kHz to 300 GHz

Summary

- VLC regulation - Not yet found
- Regulations related to LED Lamps
- No more use incandescent (electric bulb) Lamp
 - Good news for LED/VLC
- Need more works