**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Kookmin Classification of ISC modes** |
| Date Submitted | [March, 2016] |
| Source | Yeong Min Jang, Trang Nguyen, Nam Tuan Le (Kookmin University) |
| Re: |  |
| Abstract | This document gives a suggestion in classifying ISC modes. |
| Purpose | D0 structure |
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**Proposed Draft v0 Structure**

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| **Pending draft v0**  **(Intel contribution)** | **Kookmin suggestion** |
| **13. PHY IV**  13.1 UFSOOK  13.2 Twinkle VPPM  Intel twinkle  Kookmin twinkle | **13. PHY IV ISC modes - hybrid modulation schemes and cameras**  13.1 Undersampled technique for both Global/Rolling Shutter Cameras  Intel UFSOOK  Kookmin S2-PSK  13.2 Twinkle VPPM  Intel twinkle (UFSOOK + VPPM)  Kookmin (S2-PSK + DSM-PSK) |
| **14. PHY V**  14.1 NTU RS-FSK  14.2 Panasonic PPM1  14.3 Panasonic PPM2  14.4 Panasonic PPM3  14.5 Kookmin CM-FSK  14.6 Kookmin C-OOK | **14. PHY V – Rolling shutter ISC modes**  14.1 RS-FSK  Kookmin CM-FSK (low symbol rate mode)  NTU RS-FSK (high symbol rate mode)  14.2 PPM  Panasonic PPM mode 1  Panasonic PPM mode 2  Panasonic PPM mode 3  SNUST Offset-PPM  14.3 OOK  Kookmin C-OOK mode 1 (low symbol rate mode)  Kookmin C-OOK mode 2 (frame rate drop error detection mode) |
| **15. PHY VI**  15.1 UCT-ISC    15.2 Invisible    15.3 CSM | **15. PHY VI – MIMO screen based ISC modes**  15.1 Visible 2D-sequential code  Kookmin color code  Intel 2D-sequential code  15.2 Invisible code  SNUST invisible code  Kookmin Invisible code  15.3 Color Space Modulation |

**Proposed Draft v0 Structure**

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| **Panasonic contribution** | **Kookmin suggestion** |
| **13. PHY IV: Discrete Point source(s) transmitter** | **13. PHY IV: Discrete Point source(s) transmitter**  13.1 Under-sampled modulation (flicker-free mode)  Intel UFSOOK  Kookmin S2-PSK  13.2 (flicker mode) modulation  SNUST Offset-PPM  13.3 Twinkle VPPM  Intel twinkle (UFSOOK + VPPM)  Kookmin (S2-PSK + DSM-PSK)  13.4 Multiple point sources ???  Color Space Modulation  PAPM China Telecom |
| **14. PHY V: LED panel transmitter** | **14. PHY V: LED panel transmitter**  14.1 RS-FSK  Kookmin CM-FSK (low symbol rate mode)  NTU RS-FSK (high symbol rate mode)  14.2 PPM  Panasonic PPM mode 1  Panasonic PPM mode 2  Panasonic PPM mode 3  14.3 OOK  Kookmin C-OOK mode 1 (low symbol rate mode)  Kookmin C-OOK mode 2 (frame rate drop error detection mode) |
| **15. PHY VI: Screen** | **15. PHY VI – Low symbol rate 2D-sequential code**  15.1 Visible 2D-sequential code  SNUST SCAM code  Kookmin color code  Intel 2D-sequential code  15.2 Invisible 2S-scode  SNUST invisible code  Kookmin Invisible code |