

# Far-Infrared Rays Standardization for Hong Kong



Raymond Chiu 招炳耀  
Principal Consultant  
Automotive & Electronics  
[raymondchiu@hkpc.org](mailto:raymondchiu@hkpc.org)

# HKFIRA Standardization Effort

---

## Need for Standardization

- Technology and Applications are new, esp. outside of Japan
- Applications very diverse
- lack of Consumer awareness of technology and benefits
- lack of Consumer Confidence on product performance
- presence of unqualified players / products in the market

## Approach

- ride on experience from Japan (JIRA)
- extend coverage to applications of interest in Hong Kong

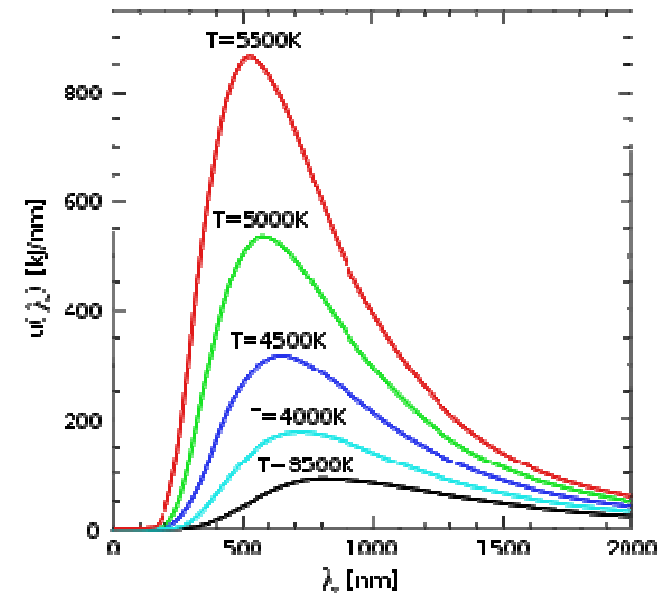
# JIRA Standardization Effort

## Status of Standardization

- still in early stage, i.e. more extensive work and coverage needed
- total qualified products as at 2009 July 22: 115 pieces
- major categories: heating, fabrics

## Standardization Areas

- FIR Characteristics:
  - FIR emission characteristics / spectrum
  - radiated heating effect
  - endurance of effect & characteristics
  - product, technology safety
- Quality Assurance System



## Standardization System

- Certification Committee of 6 member expert group from FIR Expert, Experienced Technology Expert, Consumer Group
- Issue of Certification Number
- Certification Fee for Members & non-Members
- Use of Certification Number & Logo
  - covers exhibition of Certificate & Logo, advertisement, trade mark, etc.
  - pre-approval from JIRA required
  - effective duration: 3 years

## Standard Coverage

- various Electric Appliances, Electronics
- fabrics with direct contact
- bed facilities (indirect contact)



# HKFIRA Standard Extensions

## Standardization Coverage & Grading

- various Electric Appliances, Electronics
- fabrics with direct contact
- bed facilities (indirect contact)
- Industrial Heating / Drying
- Food Processing
- Healthcare product



## Extension to cover FIR effects

- FIR treated water (and similar for wine, vinegar)
- Healthcare effect: measurement & clinical study result endorsement



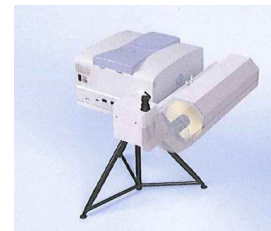
# HKFIRA / HKPC support to Standardization

## Administer Standardization System

- Selection and Admin of Certification Committee
- Issue of Certification Number
- Admin use of Certificate & Logo

## Provide Testing Capability & Consultation Services

- used of internal (HKFIRA / HKPC) capability
- source and admin external capability
- source and coordinate various expertise from university, medical / hospital, laboratory
- set up and admin various endorsement systems



# HKFIRA / HKPC other support

---

## Industry-wide Support

- business intelligence support: news, web-site, database
- expert / technology support
- cross-region support: Japan, Korea, Taiwan, Mainland, U.S./Europe
- cross-industry support: FHKI, mold-n-die, healthcare, apparel
- coordinate for HK Govt. department support: TID, ITC, EPD, HKTDC, etc.