Energy-saving Fluorescent Lamps Innovation!

MERS Fluorescent Dimming Controller

MERS-IVM18

◆Low Cost Eco-Friendly Option without Using LED
◆Optimum Power Saver for Conventional Fluorescent Lamps (Magnetic Ballast) !
◆No thinning put of lamps necessary

Lamp remains as existing !
Can achieve Electrical Power & CO2 Big Saving !!

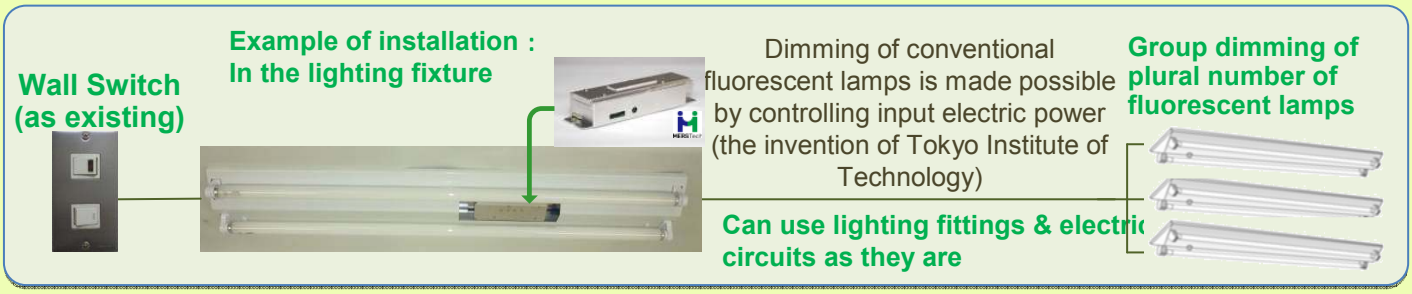
More than **40%** reduction of electric energy without feeling darkness

Ex. : Instant/Rapid 18 lamps
Case : 12hours/day x 300days/year, Electric Fee=¥27/kWh

Before Dimming		40% Dimm	After Dimming	
	Consumption : 800W Elect. Bill: ¥77,760/yr			Consumption : 480W Elect. Bill: ¥46,656 /yr

Energy/CO2 saving is realized without hinder the day-to-day operation !

Governmental Recommended Illuminance is **300～500 lux** in the office, etc.



■ **Convenient Energy Saving**・・・Electric power saving by proportional dimming rate
■ **Low Cost Solution**・・・ Only additionally install one group dimming device
■ **Easy Installation** ・・・ Inner installation of lighting fixture (just like replacement of ballast)
■ **Longevity of Lamps**・・・Saving money of lamps & labor costs by extending of lamp lifetime

Can recover in less than 3years the investment including installation fee by electric power reduction fee !

INOVERITA
Super Security Solutions Co.,Ltd.
5F Shinei Bldg, 3-8-7 Sotokanda, Chiyoda-ku, Tokyo 101-0021 Japan
Phone : 03-5209-2871 Mail : info@inoverita.com

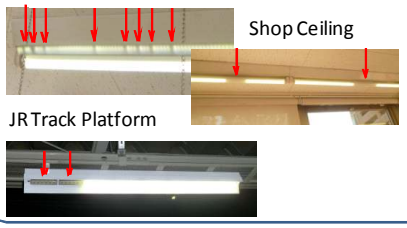
Registered Patent No. 3634982, 3735673, etc. in Japan

Problems of Lighting Power Reduction

LED

- Higher price compared with conventional lighting fixture
- Expensive replacement fee
- Poor quality of light (straightness & glare)
- Poor color of apparent
- Short lifetime of lighting fixture (inverter, chip, etc.)
- Heavy weight of lighting fixture
- Electronic noise (EMS & THD)
- No compliance of standardization
- Different evaluation criteria
- Uncontrolled manufacturing quality
- Disposal of environmental destruction
- Health damage (body clock & eye)

Accidents of unlighted LED



LED
- Too much Initial investment
- Dazzling & uncomfortable light
- Anxious coloring

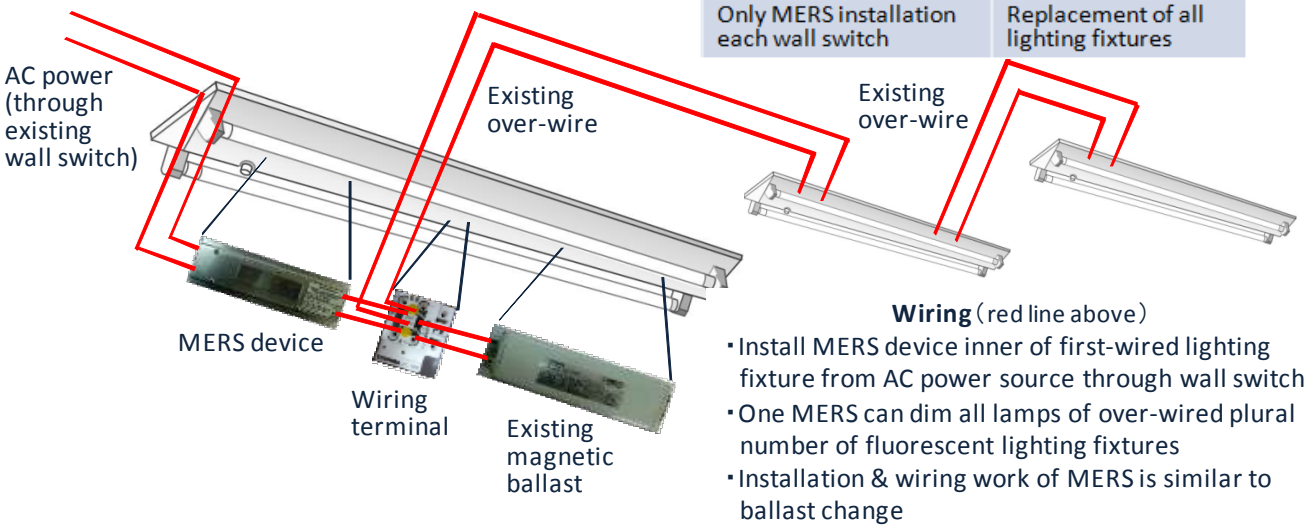
Thinning Out of Lamps

- Worsening of visual environment
- Unexpected poor Electric power reduction effect
- Concern of burning accident

Installation of MERS device (Inner of first-wired lighting fixture controlling all of over-wired plural number of fluorescent lamps)

Advantages of installation method

MERS	LED
Only MERS installation each wall switch	Replacement of all lighting fixtures



Wiring (red line above)
- Install MERS device inner of first-wired lighting fixture from AC power source through wall switch
- One MERS can dim all lamps of over-wired plural number of fluorescent lighting fixtures
- Installation & wiring work of MERS is similar to ballast change

MERS-IVM18 Profile

External Dimensions
61x44x224mm
Mounting Hole Pitch
210mm