

Dear Customer,

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Automation Digest Issue #12 - Sept 2006  
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As technology continues to advance in the 21st century, men learnt the smart and easy ways to seek assistance from high technology yet easy operation equipments for daily production line work, to enhance the processes and prevent hazards.

So let's heat things up a little for this issue, bringing to you the latest technology from Omron's ZUV-series UV LED irradiator, along with some information on Static Electricity, Omron's solution to countermeasure it, its ZJ series range of Ionizers, and last but not least Brady's safety signs for prevention of hazards.

Brief content of this issue:

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1) Omron ZUV-series UV LED Irradiator  
2) What is Static Electricity?  
3) Omron ZJ series Ionizers  
4) Brady's Safety Signs

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\*Omron ZUV-series UV LED Irradiator

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Are you using the costly UV Lamp for your Curing System? Now Omron has its ZUV series UV LED irradiator allows customers to reduce heat damage; reduce costs, save installation space, easier operation and reducing maintenance work. How? Just look at the features of the UV-LED Irradiator.

Basic features:

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- A 365-nm LED irradiator, which does not generate infrared light, emits almost no heat.
- Lifespan of the LED, about 10.000 hours at 100% irradiation.
- World's smallest size 1/8 the size of a lamp irradiator
- Easy to understand display and simple operation
- Simple Structure - no fan and shutter for easy maintenance.

To find out more on what the Omron ZUV series can offer you from its application, click here for more information;

Email -> [mktg\\_sg@ap.omron.com](mailto:mktg_sg@ap.omron.com)

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\* What is Static Electricity?

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"At it's simplest; static electricity is an electrical charge that cannot move. It is created when two objects or materials that have been in contact with each other are separated. When in contact, the surface electrical charges of the objects try to balance each other. This happens by the free flow of electrons (negatively charged particles) from one object to the other. When the objects separate, they are left with either an excess or a shortage of electrons. This causes both objects to become electrically charged (either positively or negatively charged).

"The main hazard of static electricity is the attraction of the dust and foreign particles on to the charged object or production parts. This damage can be costly especially in semiconductor or HDD industry, causing million dollars worth of products to be scrapped.

To prevent static electricity to be a hazard, best to avoid the four conditions:  
- Means for a static charge to develop.

- Too much energy building up to cause ignition.
- There must be a discharge of this energy (a spark).
- Sparks will tend to occur in an ignitable vapour or dust mixture."

Information extracted from link->

[http://www.iapa.on.ca/pdf/2004\\_feb\\_Static%20Electricity.pdf#search=%22Static%20electricity%22](http://www.iapa.on.ca/pdf/2004_feb_Static%20Electricity.pdf#search=%22Static%20electricity%22)

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\*Omron's ZJ series Ionizers - Countermeasures against Static Electricity

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Most static electricity control measures provide ways for the static charges to dissipate harmlessly before the part or products attracts dusts and foreign particles.

From Omron, we have Ionizer series to help you to eliminate the static charges.

Omron Ranges of Ionizers

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1) KS1 - Air Push Type, with accessories and Nozzles such as flexible hose, sprinkling tube for various applications

2) ZJ-FA - Fan Type, with 8 electrodes, built-in Ionizing Sensor and configurable setting.

3) ZJ-BA - Bar type, simultaneously dispense both negative and positive, more efficient and effective than the traditional AC, alternating method.

4) ZJ-SD100 - Ionizing Sensor comes with Digital Amplifier to display the Static Charge in kV unit.

Basic Features:

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- Excellent ion balance and high-speed ionization
- Easy-to-read operating status display
- Simple installation and reliable maintenance
- Superior ion balance
- High-speed
- Useful and reliable onsite functions
- Many nozzle variations for a variety of applications

Click here to obtain find out more about ionizer ->

<http://www.omron-ap.com/solutions/ionizer/main.asp>

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\*Brady's Safety Signs

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Just by adding a few words/pictures, you can make the machine or workplace a Safer Environment!

So What Signs do we have?

"CAUTION/WARNING" against

- Fire
- Laser Emission
- Moving Mechanism
- High Voltage
- Chemical
- Slippery Floor
- Inflammable Material
- Explosive Substance
- And many More!!

Don't hesitate to call or email to us to get a Copy of Brady Products Encyclopedia, containing THOUSANDS of Standard Signs!!!

(Each Sign has a Model number for easy referencing or quote)

We also provide service for custom-made Signs!

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\*To subscribe / unsubscribe

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Hope you have enjoyed the newsletter and the information is useful to you. If you think this information would benefit any of your colleagues, please feel free to forward to them.

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Lastly, thanks for your time once again and we look forward to provide you with more updates in our next issue.

Best regards,  
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