


Address	79, Ayer Rajah Crescent, Singapore 139955			
Lot area	16000m <sup>2</sup>	Total floor area	12100m <sup>2</sup>	
Establishment day	1978/5	Employees	207persons	
ISO14001 certification	1998/12	ISO14001 renewed	2009/1	
Major Products	Car Audio, Audio, Kit, AV Selector, Accessories			
Environmental Communication Information disclosure	FY2009			
visitors on factory tour	1items	0persons	collaboration with municipality	0items
Contact	Administration Department		TEL:	(65) 67764711

**Message from Compliance Administrator**

The main focus of our environmental activities for Y2008 has been on our R&D. We are looking into design possibilities of products with good environmental concerns. For the next few years, we will be concentrating our resources on these areas. This is also in line with our Environmental Policy to design products with environmental considerations.



Compliance Administrator  
**Tan Kim Seng**

**Main activities in FY2009**

Target	Result
Reduce Size of Heat Sink	KD-G140 and KD-G341 series, total qty 33,950
Replace Tuner Pack with IC	KD-G140, KD-AR390, KD-G514, KD-PDR41 series, ttl qty 3,152,300
Delete Fan	KD-DV4400, KD-DV5400 series, total qty 166,010

**Products of Environmentally-conscious information**

**KD-G645 CD RECEIVER w/USB Port**



**Key Environmental Features**

This product uses a tuner IC instead of the conventional tuner pack. It is printed on a single sided PW board and the heat sink size has been reduced to 74mm x 50mm.

**Car Receiver - KD-G645**

A CD receiver with MOS-FET power amp and 24-bit DAC ensure crisp, clear sound in powerful 50W x 4 output.

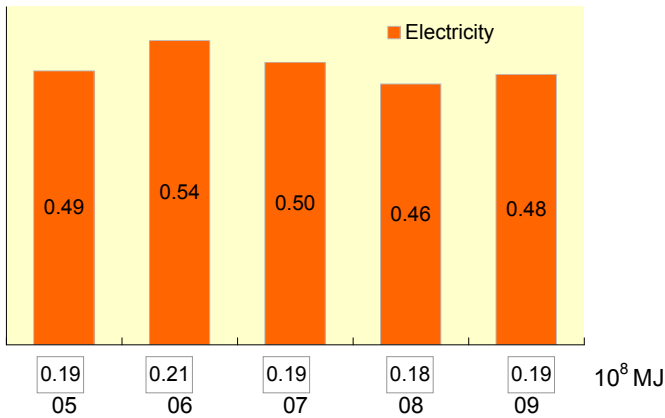
The USB and AUX on front panel let you easily connect and play music from various external devices.

You can enjoy MP3/WMA files with ID3/WMA tags as well as WAV files.

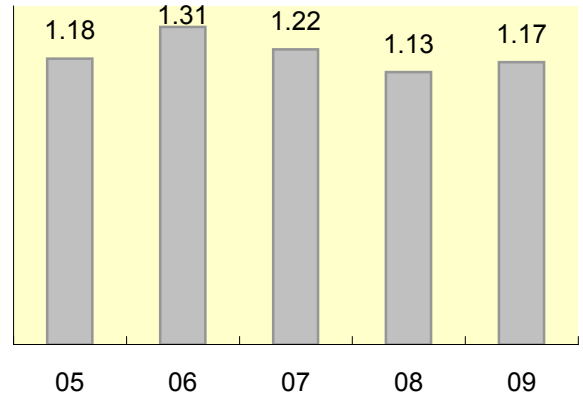
**Environmental performance data**

Year displayed in graph ex) 2009: April 1, 2008 - March 31, 2009

**Energy** (crude oil Equivalent) Unit: 1000t



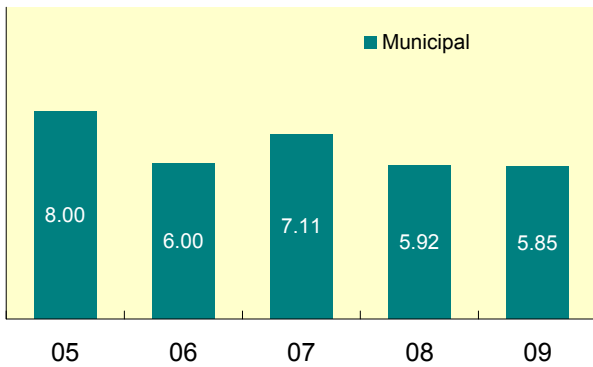
**CO2 Emission** Unit: 1000t-CO2



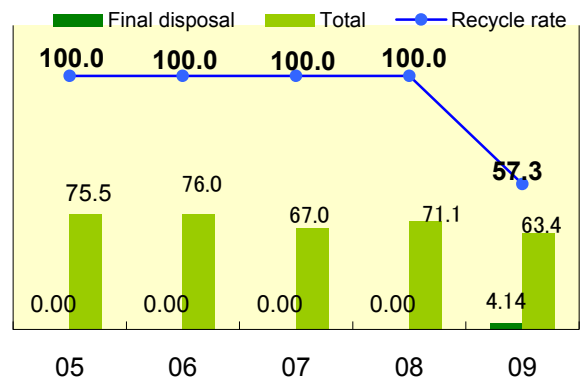
Calculation standards

CO2 co-efficient and units 0.644 kgCO2/kWH

**Water** Unit: 1000m<sup>3</sup>

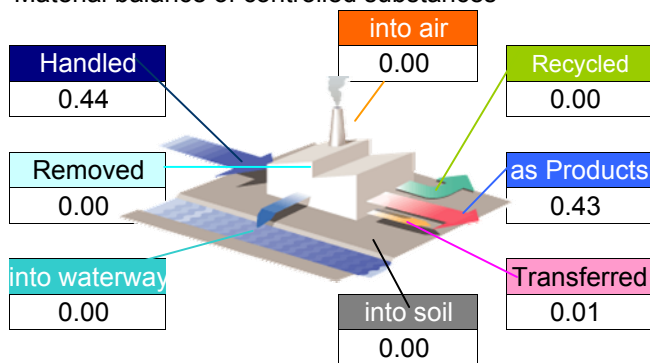


**Waste** Unit: t, %

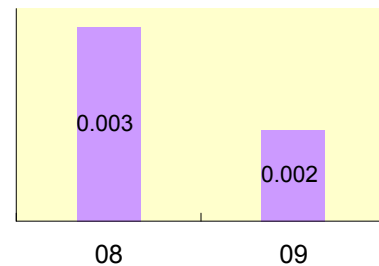


**Chemical substances** Unit:t

Material balance of controlled substances



Key target reduction substances



About the above data

Our chemical usage was very minimal as we have very small production. We will have to concentrate on efforts to minimise even the usage even further or look for alternative materials. Key target reduction substances : JVC selected about 60 substances from Japanese legal, PRTR, VOC and GHG.

**Compliance FY2007**

**<Air pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm <sup>3</sup> /h	NA			0.00		
		NA			0.00		
		NA			0.00		
NOx	ppm	NA			0.00		
		NA			0.00		
		NA			0.00		
Particulate	g/Nm <sup>3</sup>	NA			0.00		
		NA			0.00		
		NA			0.00		

**<Water pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	NA			0.00		
		NA			0.00		
		NA			0.00		
BOD	mg/l	NA			0.00		
		NA			0.00		
		NA			0.00		
Nitrogen	mg/l	NA			0.00		
		NA			0.00		
		NA			0.00		
Phosphorus	mg/l	NA			0.00		
		NA			0.00		
		NA			0.00		

**<Noise and vibration>**

	Unit	Measurement Area	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
Noise	dB	DT Boundary	75.00		65.00	68.00	3 / years
		NT Boundary	65.00		57.00	62.00	3 / years
Vibration	dB	DT NA					
		NT NA					

\*Legal limit: The strictest value out of those specified by laws, ordinances or agreements.

\*N/A(not applicable):The meaning when the facility is exempted from the regulation.

**About excess of legal limit value**

There is no item to report

**Improvement of direction by government, or point outs by neighbor**

Occurrence situation	Countermeasure
There is no item to report	

Environmental Policy

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## JES ENVIRONMENTAL POLICY

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In line with JVC's corporate environmental policy, JVC Electronics Singapore Pte Ltd is committed to achieve environmental excellence by developing environmental programs, setting objectives and targets and through continual improvements in our Environmental Management System.

We shall uphold our commitment to:

- Comply with relevant environmental legislations, regulations and other requirements with regards to our activities, services and products.
- Maintaining good environmental awareness and practices among our employees.
- Improve on our general and toxic waste disposal practices.
- Strive for improvement on our energy and water consumption.
- Use best practicable means to prevent pollution.
- Design products with environmental considerations

We shall review our Environmental Management System regularly and conduct periodic audits so as to upgrade our environmental performance.

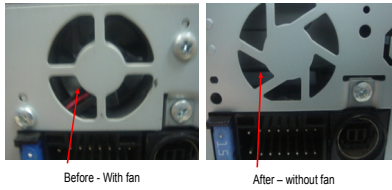
Makoto Inukai  
Managing Director  
JVC Electronics Singapore Pte Ltd

Revised : 01 September 2009

**Aiming to reduction of environmental impact**

**Design Products with Environmental Considerations**

**To Delete Fan**



Before - With fan

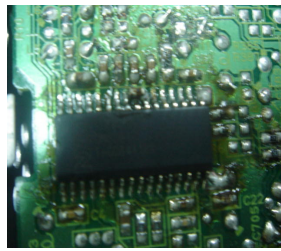
After - without fan

The main focus of our Y2008 projects is to look into designs that will have an impact on our environment. Through the design phase, we have studied the possibility of using less materials, alternative components and process IE to produce better eco-friendly products. Our Y2008 projects focus on using less materials and re-design in order to achieve our goals.

**To Replace Tuner Pack with IC**

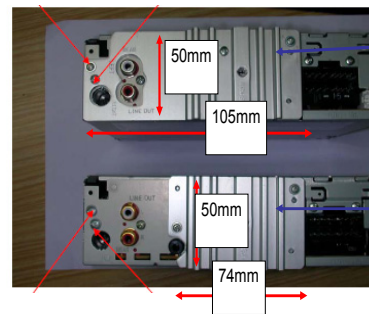


Before - Tuner Pack



After - IC

**To Reduce Heat Sink Size**



Before  
 Dimension = 105mm X 50mm

After  
 Dimension = 74mm X 50mm

**Emergency preparedness and response**

**Concept**

JES has established a comprehensive evacuation plan to safeguard our employees' lives in case of emergencies. We have developed an emergency preparedness and response plan for these two situations:

- a. Fire Emergency Plan (FEP)
- b. In-Place Protection Plan (IPP)



**Fire Emergency Plan (FEP) - Evacuate from building**

The FEP was executed twice a year as part of our emergency preparedness and to meet government law's requirement. A review was also convened to assess the outcome of such drills.



**In-Place Protection Plan (IPP) - Evacuate into confined area in building**

As part of our emergency response plan, we performed the IPP once a year in Sep. The aim of the IPP is to test our response in the event of hazardous or toxic release into the atmosphere outside the building.