VERSACAMM VS SERIES ECO-SOLVENT™ INKJET PRINTER/CUTTERS
FEATURING OPTIONAL METALLIC SILVER ECO-SOL MAX INK

The most tempting VersaCAMMs ever.

Roland®

How to build the perfect printer.

Award-winning Eco-SOL MAX inks with White and Silver options for metallic colors and striking effects

Driven by included VersaWorks RIP software featuring powerful tools like spot color matching, media profiles, and metallic and texture libraries

Advanced features like a gold-plated print head and automatic ink circulation system for maximum performance

Roland OnSupport notifies you remotely of printer activity like when a job is done or ink is low

Integrated print/cut for unrivaled versatility and ease of use

Industrial steel construction for unmatched quality and reliability

Metallic Silver Effects

A remarkable innovation in advanced inkjet technology, the VS Series' optional metallic and white ink configuration allows users to add value and sophistication to virtually any graphic. Metallic Silver ECO-SOL MAX ink — recognized as DPI Product of the Year — can be printed as a spot color, or combined with CMYK to produce over 500 striking metallic and pearlescent colors.

New 8-Channel Print Head Technology

The VS Series features an all-new 8-channel print head that prints up to 1440 dpi using variable droplet technology with seven precise droplet sizes to optimize image quality. As a result, the VS Series delivers exceptional quality prints that display smooth gradations when viewed up close. Among other key benefits, the gold-plated head reduces static, preventing clogging.

Roland Intelligent Pass Control Technology

This patent-pending system precisely controls dot placement between passes and produces smooth gradations and flawless solid colors while achieving faster throughput with virtually no banding in all print modes. This technology increases productivity by delivering the same print quality at higher speeds.

Integrated Print/Cut Workflow

The VS Series streamlines the production process by automatically contour cutting printed graphics, eliminating the need to reload and reposition graphics. The new CustomCUT feature in VersaWorks allows print/cut jobs to run completely unattended using the optional take up system....advanced technology you won't find on any other devices in the industry. The take up reel will wait for printing *and* cutting to complete before taking up the job, so you no longer have to babysit your print/cut jobs.

For laminated graphics, our Quadralign® four-point optical registration system allows users to remove prints, laminate and simply reload them for precision cutting. Quadralign automatically realigns the cutting path and compensates for skew and distortion. The VS also functions as a stand-alone vinyl cutter.

ECO-SOL MAX Ink

Virtually odorless, ECO-SOL MAX offers fast drying time, high density, wide color gamut, rugged scratch resistance, low cost per square foot and broad uncoated media support. MAX is virtually odorless and graphics are water and UV resistant up to 3 years outdoors** without lamination.

Roland OnSupport Online Production Assistance

Roland OnSupport online production monitor enables remote tracking of production so you can get a text or email when ink is low or a job is finished. Roland OnSupport users can also quickly download firmware updates and important product information.

VersaWorks RIP Software

Developed exclusively for Roland inkjet printers and printer/cutters, Versaworks RIP software takes full advantage of the VS Series capabilities. Based on the latest Adobe CPSI 3019 engine, VersaWorks includes advanced error diffusion and 16-bit rendering for exceptional production output with unmatched ease of use, and is fully compatible with Windows 7, Vista, and XP.

VersaWorks supports the Roland Color system, which accurately reproduces more than 1,000 standard colors and 512 metallic colors. Preset print options include a high-speed mode for production banner printing, the MAX Impact preset for vivid outdoor graphics and Artistic mode for exceptional indoor graphics. Versaworks automatically estimates the ink usage and print time for each graphic so you can accurately monitor time and costs. VersaWorks also features Variable Data Printing, embedded ICC profile support, software proofing capabilities, ink level adjustment tools, and advanced cropping, tiling and nesting options.

Eco-Sol MAX Silver Ink
2009 Product of the Year

Automated Ink Circulation System

To prevent the pigments in metallic silver and white inks from settling, the VS Series comes with Roland's unique, patent-pending automated ink circulation system. The system automatically reduces waste of white and metallic silver ink for dramatically lower running costs. The system ensures exceptional image quality throughout the longest production runs.

Advanced Media Handling and Heating Systems

A true production printer, the VS Series features an advanced media handling system allowing users to feed rolls up to 88 lbs (VS-640). Upgraded media flanges and seven pinch rollers secure the heaviest media in place for accurate feeding and tracking through long production runs. Adjustable print heads enable you to accommodate variable media thicknesses. A built-in 2-stage integrated heater system precisely controls the proper amount of heat for each application, yielding outstanding results every time on both uncoated and coated media. Prints dry quickly even in high-speed modes for immediate finishing, installation and collection by the take-up system.

Two-Year Trouble Free Warranty

The VS Series, like the rest of the VersaCAMM line-up, is a workhorse and requires significantly less servicing than most inkjets to provide years of reliable service, even in the most demanding shop environments. It's backed with our Roland Care Program and a full two-year warranty covering parts and labor, even on the heads.***

VERSACAMM VS-540
54" PRINTER/CUTTER

VERSACAMM VS-420
42" PRINTER/CUTTER

It starts with metallic ink and gets better from there.

With available widths up to 64", the VS series are Roland's largest, fastest and most versatile VersaCAMM printer/cutters to date, designed to produce signs, banners, vehicle graphics and wraps, fine art, posters, packaging prototypes, labels, decals, POP displays, heat transfers for apparel and more. The VS series combines a new gold-plated print head technology with integrated print/cut capabilities, print speeds up to 248.6 sqft/hr* in dual CMYK mode and advanced media handling for unmatched print quality and unattended production capabilities. Priced affordably, the VS is both an exceptional value and a powerful production tool.

Choose from 3 ink configurations:

Versatility
Metallic Silver & White
CMYK, Lc, Lm, Silver and White

Silver Metallic Ink prints as a spot color or combines with CMYK for hundreds of colors

- 3 years outdoor durability for CMYK, 1-3 years for Metallic, 1 year for White

Speed
Double CMYK
CMYKKYMC

The highest print speeds and no chromatic banding due to the mirrored ink order

- Maximum speed of 248 sq ft/hr*
- 3 years outdoor durability

Performance
6-Color LcLm
CMYKLcLm

Enhanced blues and reds, flawless flesh tones and improved image quality across light colors

- Superior color gamut and image quality
- 3 years outdoor durability

VERSACAMM VS-640
64" PRINTER/CUTTER

shown with optional take-up system

Roland®

VERSACAMM® VS SERIES
ECO-SOLVENT™ INKJET PRINTER/CUTTERS

VERSACAMM VS-420
42" PRINTER/CUTTER

VERSACAMM VS-540
54" PRINTER/CUTTER

VERSACAMM VS-640
64" PRINTER/CUTTER

VS-640 shown with optional take-up system

PRODUCT HIGHLIGHTS

- Integrated print/cut capabilities
- Choice of 42", 54" or 64" maximum media width
- Photorealistic printing up to 1440 dpi
- New 8-channel gold plated print head
- Prints over 500 metallic and pearlescent colors
- Choose from 3 Ink Configurations
    - > 8-Color CMYKLcLm + Metallic Silver + White
    - > 6-Color CMYKLcLm
    - > 4-Color Double CMYK
- Roland Intelligent Pass Control™
- Max. print speeds up to 248 sqft./hr.*
- Advanced ECO-SOL MAX INK
    - > Available in 440 or 220 ml cartridges
    - > Bonds to both uncoated and coated media
    - > Vibrant water, scratch and UV resistant graphics
    - > No special ventilation equipment required
- Roland VersaWorks™ RIP software included
    - > Roland Color System
    - > Variable Data Printing
    - > Error diffusion 16 bit rendering
    - > Print time and ink usage estimator
- Automated Ink Circulation System
- Optional media take-up system supports rolls up to 88 lbs
- Two-Year Trouble-Free Warranty***

PRODUCT SPECIFICATIONS

MODEL	VersaCAMM VS-640	VersaCAMM VS-540	VersaCAMM VS-420
Print resolution	360 x 720 dpi, 720 x 720 dpi, 540 x 360 dpi, 540 x 720 dpi, 1440 x 720 dpi		
Printing/cutting width	Maximum 63 in (1600 mm)	Maximum 53 in (1346 mm)	Maximum 41.2 in (1046 mm)
Acceptable media width	8.3 to 64 in. (210 to 1625 mm)	8.3 to 51.9 in (210 to 1317 mm)	7.2 to 42.2 in (182 to 1071 mm)
Ink cartridges	Roland ECO-SOL MAX ink		
Capacity	8 cartridges: 220 ml or 440 ml ± 5 ml (Metallic Silver and White Ink 220 ml only)		
Color	8 Colors (Cyan, Magenta, Yellow, Black, Light Cyan, Light Magenta, Metallic Silver, White) 6 Colors (Cyan, Magenta, Yellow, Black, Light Cyan, Light Magenta), 4 Colors (Cyan, Magenta, Yellow, Black)		
Printing/cutting speed	Max 248 sq. ft./hr / Max 11.8 ips	Max 228 sq. ft./hr / Max 11.8 ips	Max 125 sq. ft./hr / Max 11.8 ips
Cutting force/offset	30 to 300 gf / 0 to 1.5 mm		
Interface	Ethernet		
Power-saving function	Automatic sleep feature		
Power supply	AC 100 to 120V +10%, 8.2A, 50/60 Hz or	AC 100 to 120V +10%, 7.9A, 50/60 Hz or	AC 100 to 120V +10%, 7.2A, 50/60 Hz or
Dimensions (with stand)	101.4 x 27.8 x 43.5 in (2575 x 705 x 1105 mm)	91.2 x 27.78 x 43.5 in (2315 x 705 x 1105 mm)	79.4 x 27.8 x 43.5 in (2015 x 705 x 1105 mm)
Weight (with stand)	287 lbs (130 kg)	265 lbs (120 kg)	234 lbs (105 kg)
Media roll weight maximum	88 lbs (40 kg)	65 lbs (30 kg)	55 lbs (25 kg)

Imagine. **Roland**®

Imagine.

Roland ®

DVE
Digital Value Engineering

Print & Cut
VersaCAMM **VS-640**

The World Is Metallic — Our Largest, Most Powerful VersaCAMM Printer/Cutter Ever Features Metallic Silver Ink

The creative world has embraced a new trend — metallic colors. With the VersaCAMM VS-640, you can transform this trend into a profitable new business opportunity. The 64" VS-640 brings all the best of Roland inkjet technology to one groundbreaking device, fully optimized for award-winning Metallic Silver ECO-SOL MAX ink. Metallic ink adds luxury and style to signs, banners, vehicle wraps, window displays, fine art posters, labels and decals. A new print head and renowned Roland Print&Cut technology combine for seamless production of the most complex graphics. An advanced take-up system* collects printed and cut graphics all in one device for reliable unattended production. The VS-640 is also affordable and represents exceptional value, making it the ultimate production printer. Discover a new world of opportunity with the VersaCAMM VS-640.

*The take-up system is available as an option.

Roland Metallic Color System Library

Roland Intelligent Pass Control

ECO-SOL MAX®

Adobe PostScript 3

Print &Cut

RIP & PRINT MANAGEMENT SOFTWARE
Roland VersaWorks®
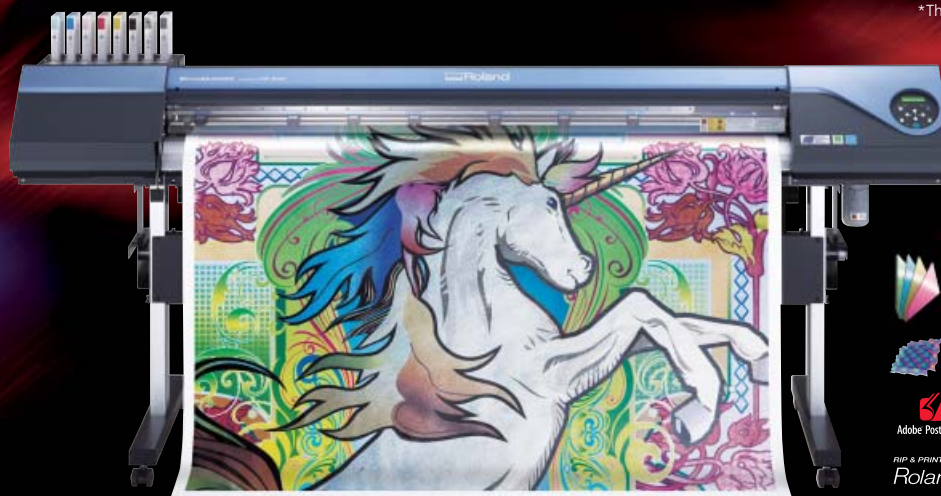
Brilliant metallic vehicle graphics stand out on the road	Vivid banners are easy to produce with the 64" wide VS-640	Spectacular window displays feature metallic images and accents	Luxurious fine art creates a lasting impression

Revolutionary New Print Head Delivers the Ultimate in Image Quality

Based on a new generation of print head technology, the VS-640 fires droplets of seven different sizes with unmatched precision for beautifully smooth gradations, precision photographs and flawless solid colors. A new gold-plated print head is designed to repel ink, preventing clogs. Precision-rounded nozzles combined with accurate ink firing produce perfect ink droplets for unrivaled image quality. Roland Intelligent Pass Control assures the highest productivity while maintaining smooth gradations and flawless solid colors.

Metallic Colors and White Ink Produce Premium Quality Results

With the introduction of the VS-640, Roland's spot color library has been expanded with more than 500 metallic colors that are easy to apply to any graphic. The VS-640 swatch library also allows you to choose colors from popular graphics software including Adobe® Illustrator®. With white ink, you can produce vivid CMYK colors even on transparent film by adding a white undercoat. Roland's advanced ink circulation system automatically prevents the pigments in metallic silver and white inks from settling, minimizing ink waste without manual intervention.

Remote Production Management — "Roland OnSupport" Messaging System Included

Roland OnSupport is an online customer support system allowing you to remotely track the status of your VS-640 activities. The system sends e-mail notifications directly to your PC or mobile phone with important information such as when a job is completed and when ink is running low. With Roland OnSupport, you have complete freedom to leave your printer unattended, knowing that critical production information will be sent to you in real time.

Includes VersaWorks, Roland's Powerful, Easy-to-Use RIP Software

With VersaWorks RIP software, anyone can achieve professional print quality without advanced skills or previous experience. VersaWorks is built on the genuine Adobe PostScript 3 engine for reliable quality print after print. The Roland Color System accurately reproduces spot colors from Roland Color charts and swatch books and features 512 metallic colors including gold, silver, bronze and a wide range of pearlescent colors. VersaWorks also offers a variety of print options including the Max Impact preset for vivid outdoor graphics and Artistic mode for exceptional indoor graphics to be viewed up close. VersaWorks automatically estimates the ink usage and print time for each graphic so you can accurately monitor your time and costs.

Specifications

Printing technology		Piezoelectric inkjet
Media	Width	210 to 1,625 mm (8.3 to 64 in.)
	Thickness	Maximum 1.0 mm (39 mil) with liner for printing Maximum 0.4 mm (16 mil) with liner and 0.22mm (9mil) without liner for cutting
	Roll outer diameter	Maximum 210 mm (8.3 in.)
	Roll weight	Maximum 40 kg (88 lb.)
	Core diameter*1	76.2 mm (3 in.) or 50.8 mm (2 in.)
Printing / cutting width*2		Maximum 1,600 mm (63 in.)
Ink cartridges	Type	Roland ECO-SOL MAX INK
	Capacity	220 cc or 440 cc
	Colors	Eight colors (cyan, magenta, yellow, black, light cyan, light magenta, metallic silver and white), six colors (cyan, magenta, yellow, black, light cyan, and light magenta), or four colors (cyan, magenta, yellow, and black)
Printing resolution (dots per inch)		Maximum 1,440 dpi
Cutting speed		10 to 300 mm/s
Blade force		30 to 300 gf
Blade offset		0 to 1.5 mm (0 to 0.059 in.)
Software resolution (when cutting)		0.025 mm/step (0.000984 in./step)
Distance accuracy (when printing) *3 *4		Error of less than ±0.3% of distance traveled, or ±0.3 mm, whichever is greater
Distance accuracy (when cutting) *3		Error of less than ±0.4% of distance traveled, or ±0.3 mm, whichever is greater When distance correction has been performed (when the setting for [CUTTING MENU] - [CALIBRATION] has been made): Error of less than ±0.2% of distance traveled, or ±0.1 mm, whichever is greater
Repeatability (when cutting) *3 *5		±0.1 mm or less
Alignment accuracy for printing and cutting *3 *6		±0.5 mm or less
Alignment accuracy for printing and cutting when reloading media *3 *7		Error of less than ±0.5% of distance traveled, or ±3 mm, whichever is greater
Media heating system *8	Print heater	Setting range for the preset temperature: 30 to 45°C (86 to 112°F)
	Dryer	Setting range for the preset temperature: 30 to 50°C (86 to 122°F)
Connectivity		Ethernet (10BASE-T/100BASE-TX, automatic switching)
Power-saving function		Automatic sleep feature
Power requirements		AC 100 to 120 V ±10%, 8.2A, 50/60 Hz or AC 220 to 240 V ±10%, 4.2A, 50/60 Hz
Power consumption	During operation	Approx. 1,080 W
	Sleep mode	Approx. 14.8 W
Acoustic noise level	During operation	64 dB (A) or less
	During standby	41 dB (A) or less
Environmental	Power on	Temperature: 15 to 32°C (59 to 90°F) [20°C (68°F) or more recommended], Humidity: 35 to 80% (no condensing)
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80% (no condensing)
Dimensions (with stand)		2,575 (W) x 705 (D) x 1,105 (H) mm (101.4 (W) x 27.8 (D) x 43.5 (H) in.)
Weight (with stand)		130 kg (287 lb.)
Included items		Stand, power cord, blade, blade holder, media clamps, media holder, replacement blade for separating knife, software RIP, user's manual, etc.

*1 The media holder of this machine is exclusively for media with a paper tube core inner diameter of 3 inches. To use a 2 inch media core, please use the optionally available media flanges. *2 The length of printing or cutting is subject to the limitations of the program. *3 Using Roland specified media, loaded correctly, temperature: 25°C (77°F), humidity: 50 %RH, all pinch rollers are used, 25 mm or more for both right and left margins and 35 mm or more front margin, excluding expansion or contraction of the media. and all correction and adjustment functions of this machine have been made properly. Not assured when the print heater or dryer is used. *4 Using Roland specified media, print travel of 1m *5 [PREFEED] menu item must be set to "ENABLE," Media over 610 mm wide, and 4,000 mm long. Media 610 mm wide or less and 8,000 mm long. *6 Provided that media length is under 3,000 mm. Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media. *7 Using Roland specified media, data size: 1,000 mm in the media-feed direction, 1,600 mm in the carriage-movement direction. No lamination. Automatic detection of crop marks at 4 points when media is reloaded. During cutting, [PREFEED] menu item must be set to "ENABLE." Excludes the effects of slanted movement and of expansion and contraction of the media. *8 Warm-up is required after powerup. This may require 5 to 20 minutes, depending on the operating environment. The preset temperature may fail to be reached depending on the ambient temperature and media width.

Roland VersaWorks System Requirements

Operating system	Windows® 7 Professional or Ultimate (32-bit); Windows Vista® Business/Ultimate Service Pack 1 (32-bit); Windows Vista® Business/Ultimate (32-bit); Windows® XP Professional Service Pack 2 or later; or Windows® 2000 Service Pack 4
CPU	Core™2 Duo, 2.0 GHz or faster recommended
RAM	1 GB or more recommended (Windows 7 and Vista: 2 GB or more recommended)
Video card and monitor	A resolution of 1,280 x 1,024 or more recommended
Free hard-disk space	40 GB or more recommended
Hard-disk file system	NTFS format
Optical drive	DVD-ROM drive

Option

Automated take-up system
TU2-64
For VS-640, rolls up to 30kg (66 lbs.)

Application software compatible with Cutting and Print&Cut

Adobe® Illustrator® 10, CS, CS2, CS3 / CorelDRAW® 11, 12, X3

Options

	Model	Description		Model	Description
ECO-SOL MAX Media (for banners, posters, POPs and vehicle graphics, etc.)	SP-SG-1270TR	PET semi gloss, removable adhesive, 1270 mm x 30 m (50" x 98')	ECO-SOL MAX Media (for garment heat transfer)	SCM-TTRH-25-750	Garment heat transfer, 750mm x 25m (29" x 82')
	SP-SG-1270G	PET semi gloss, gray adhesive, 1270 mm x 30 m (50" x 98')		HTSP-10-500	Special silicon paper for matte finish, 500mm x 10m (19.68" x 32.8')
	SPVCB-1270	PVC banner, 1270 mm x 20 m (50" x 65')		HTTA-25-500	Application film, 500mm x 25m (19" x 82')
	SFPLF-1300	Backlit film, 1300 mm x 30 m (51" x 98')	ECO-SOL MAX INK	ESL3-4MG	Magenta, 440cc
	SV-G-1270G	Gray adhesive vinyl, 1270 mm x 30 m (50" x 98')		ESL3-4YE	Yellow, 440cc
	SCM-GPPG-40-127	White glossy photo paper, 1270 mm x 40 m (50" x 131')		ESL3-4CY	Cyan, 440cc
	SCM-GPPG-50-914	White glossy photo paper, 914 mm x 50 m (35" x 164')		ESL3-4BK	Black, 440cc
	MPP-SG-1067	Semi glossy photo paper, 1067 mm x 30 m (42" x 98')		ESL3-4LC	Light cyan, 440cc
	SCM-GVWG-40-137	Calendered White Vinyl, adhesive, 1370 mm x 40 m (53" x 131')		ESL3-4LM	Light magenta, 440cc
	SCM-GVWG-40-152	Calendered White Vinyl, adhesive, 1520 mm x 40 m (60" x 131')		ESL3-MG	Magenta, 220cc
	SP-CL-1000T	Clear PET film, adhesive, 1000mm x 20m (39" x 65')		ESL3-YE	Yellow, 220cc
	ESP-CL-1300	Clear PET film, 1300 mm x 30m (51" x 98')		ESL3-CY	Cyan, 220cc
	SCM-GPPM-40-127	Photo mat paper, 1270mm x 40m (50" x 131')		ESL3-BK	Black, 220cc
	SCM-GPPM-50-762	Photo mat paper, 762mm x 50m (30" x 164')		ESL3-LC	Light cyan, 220cc
ECO-SOL MAX Media (for decals)	SCM-GGPET-40-500	Glossy gold PET, adhesive, 500 mm x 40m (19" x 131')		ESL3-LM	Light magenta, 220cc
	SCM-GSPET-40-500	Glossy silver PET, adhesive, 500mm x 40m (19"x 131')		ESL3-MT	Metallic silver, 220cc
	SCM-GGPVC-40-610	Glossy gold vinyl, adhesive, 610mm x 40m (24" x 131')		ESL3-WH	White, 220cc
	SCM-GSPVC-40-610	Glossy silver vinyl, adhesive, 610mm x 40m (24" x 131')	Cleaning cartridge	SL-CL	Cleaning liquid, 1 pc.
	SP-M-1270	Matte PET film, 1270 mm x 30 m (50" x 98')	Blades	ZEC-U5022	For thick, reflective and fluorescent vinyl, 2pcs.
	SP-M-610	Matte PET film, 610mm x 30m (24" x 98')		ZEC-U5025	For thick, reflective and fluorescent vinyl, 5pcs.
	SP-SG-610G	Semi-glossy PET, gray adhesive, 610mm x 30m (24"x 98')	Blade Holders	XD-CH2	Blade holder with blade extension abjuster, made of aluminum
	SP-SG-610TR	Semi-glossy PET, removable adhesive, 610mm x 30m (24"x 98')	Automated take-up system	TU2-64	For VS-640, rolls up to 30kg (66 lbs.)
				TUC-2	Controller for TU2-64 take-up system

*The glossiness of metallic colors depends on the media used. For best results, produce a test print on each substrate before production.

About Metallic Silver and White Inks

Due to the nature of white and silver inks, the pigment in these inks will settle in the cartridge and ink flow system, requiring you to shake the cartridge before each use. Outdoor durability is three years for CMYK inks, one year for white ink, and one to three years for metallic silver ink, depending on the media used. Roland strongly recommends lamination for both indoor and outdoor graphics to ensure the quality of metallic inks.

Roland DG products that feature this environmental label meet the company's criteria for environmental consciousness, a set of standards based on ISO 14021 self-declaration type II. For more information, please visit www.rolanddg.com.

ECO

ISO 14001:2004 and ISO 9001:2008 Certified

Roland pursues both environmental protection and continuous quality improvement. Under the philosophy of preserving the environment and human health, Roland is actively working to abolish organic solvents in production, to reduce and recycle waste, to reduce power use, and to purchase recycled products. Roland constantly strives to provide the most highly reliable products available.

JMA
QMS, EMS
JMAQA-370
JMAQA-4089

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