



Product Information Guide

Roland TrueVIS™ Series Printer/Cutter VG-640, VG-540



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What You Need to Know

With the new TrueVIS™ VG Series, we didn't just make a few upgrades to our print/cut technology – we reimagined everything. New FlexFire™ print heads that deliver beautiful prints more efficiently, new inks that are more vibrant and cost-effective, new cutting technology for increased accuracy, new tech to communicate with the printer/cutter via smart phone or tablet, and so much more. The future of print/cut has arrived.



Available in 64-inch and 54-inch models, TrueVIS VG series inkjet printer/cutters are designed to produce unsurpassed graphic results. Users can expect dynamic decals and labels, brilliant banners, striking signs, vibrant vehicle graphics, and powerful posters. Plus, they'll be able to produce it all on demand, more efficiently and productively than ever. With TrueVIS, our customers' vision for maximum versatility and profitability is now a reality.

MSRP:

VG-640 Printer/Cutter	\$24,995 US
VG-540 Printer/Cutter	\$20,995 US
TrueVIS INK 500 ml	\$114.99 (.23 cents per ml)
TrueVIS INK - White	Coming May, 2016
Accessories:	
TU-2 640/540	Included
DU2-640 for VG-640	\$2450.00
DU2-540 for VG-540	\$2300.00

What should you tell your customers about the VG-640/540?

- New TrueVIS INK, available in CMYK, CMYKLcLmLk and CMYKLcLmLk+WH delivers exceptional quality in cost-effective 500 ml pouches (White ETA May 2016)
- TrueVIS INK is GREENGUARD Gold Certified
- Four new FlexFire print heads fire precision droplets in three sizes and a wide print swath, for high-quality output and efficient ink usage
- New Bluetooth-enabled Roland DG MobilePanel allows the user to access VG printer/cutter control panel functions from a smartphone or tablet
- New cutting technology improves accuracy and saves time
- New VersaWorks® Dual RIP Software
 - New core engine eliminates problems with transparencies, blurs and shadows
 - Processes at 1.5 x speed
 - Ability to save queue templates
 - New variable data in RIP editing capabilities
 - Automatically generate White or special effects color plates in RIP
 - Maintained clipped position
 - Rotate 90/270 degrees (previously only 180 degrees was possible)
- Two-Year Trouble-Free Warranty

Key Features and Benefits

New Roland Print Head Technology and Ink Deliver our Highest Quality Prints Yet

TrueVIS VG series printer/cutters are equipped with four newly-developed FlexFire™ print heads, which more flexibly control the metallic plate attached to the ink chamber for a higher firing frequency. FlexFire print heads also deliver precision droplet placement in three sizes, and a 25% wider print swath compared to previous Roland DG models.



Maximum Ink Quality at Minimal Cost

A major step forward in eco-solvent technology, TrueVIS INK delivers a wide color gamut and improved output, while minimizing ink costs. Users will appreciate the 500 ml pouches, which fit neatly into reusable cartridges and slide into a hidden ink bay for clean usage and less waste.



New Ink Management System

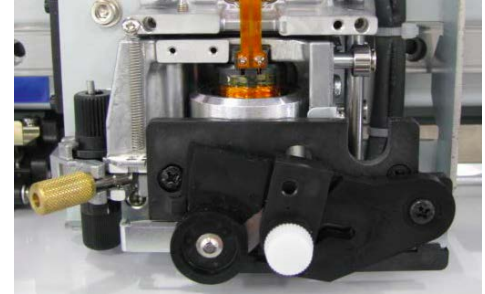
- LED Indicator lights let you know when the pouch is empty
- Replaceable ink pouch reduces waste
- RFID
 - Fewer read errors compared to IC Chip
 - More information stored on cartridge.

TrueVIS INK is available in the following configurations:

- CMYK (x 2) – Dual CMYK for maximum productivity
- CMYKLcLmLk – Light Cyan, Light Magenta and Light Black for fine details and smooth gradations
- CMYKLcLmLk+W – White ink allows for enhanced printing on dark or clear substrates

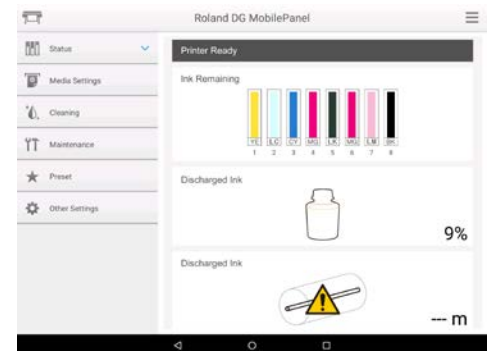
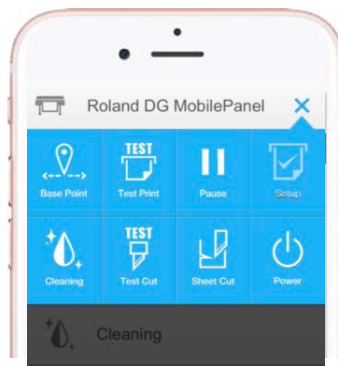
New Cutting Technology Improves Accuracy and Saves Time

Roland DG started with cutting and we haven't stopped since. The TrueVIS features our most advanced print/cut technology to date. A new carriage and blade offer increased downforce and accuracy, allowing you to work with a wider variety of media.



Remote Control Your Production with Smart New Tech

In addition to a built-in control panel, a new Roland DG MobilePanel allows you to perform VG printer/cutter control panel functions with your smartphone or tablet, from

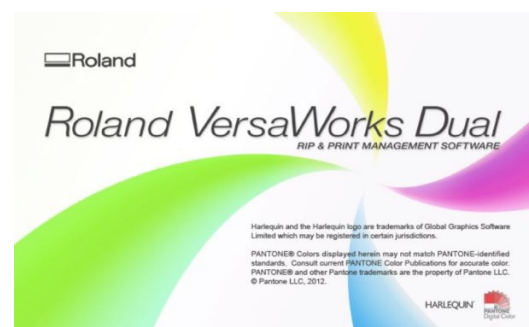


just about anywhere in your shop or office, using a Bluetooth connection. This allows you to receive status updates or remotely manage production, test printing, and cleaning functions remotely.

NEW VersaWorks® Dual RIP Software

VersaWorks Dual – bundled with every TrueVIS printer/cutter – features a new core engine for better file processing (including files with transparencies), plus the advanced, easy-to-use functionality that VersaWorks is known for.

- Native PDF processing, including files with transparencies
- Supports up to four Roland devices
- User-friendly interface
- Predictive Ink Calculator
- Built-in Pantone® and Roland Color spot color libraries
- Variable data printing
- Embedded ICC support ink level adjustment tools
- Advanced cropping, tiling and nesting options



Two-Year Trouble-Free Warranty

Roland TrueVIS inkjets combine unbeatable performance with legendary Roland reliability. As further proof of the unmatched reliability of these advanced printer/cutters, Roland offers an unprecedented Two-Year Trouble-Free Warranty for the VG when equipped exclusively with Roland inks and the warranty is registered within 60 days of delivery.



Roland OnSupport

Roland OnSupport is an online support portal that allows easy VersaWorks software updating and provides real-time machine status feedback by sending e-mail alerts to the user's computer or smart phone. The system is designed to automatically notify users, for example, when a job is completed or ink is running low. Roland OnSupport also provides access to manuals and software updates, how-to and preventative maintenance guides, machine usage metrics, and periodic updates to firmware.



**Roland
OnSupport**

Additionally, this system makes it easy for users to manage their productivity or contact Roland for support. Users can access all of the following information through OnSupport:

- Device name
- Ink type
- Serial number
- Firmware version
- Print time
- Motor operating time
- Job information (resolution, ink consumption)
- Number and frequency of cleaning cycles
- Number and frequency of sheet cuts
- Ink consumption
- Number and frequency of ink cartridges being inserted into the machine

Competitive Analysis

HP-360

- \$24,995 MSRP (street \$17,000)
- 64" Print Only (add \$6,000 for cutter)
- 6-Color + Optimizer
- HP consumable heads

Epson S60600

- \$22,995 MSRP
- 64" Print Only (add \$6,000 for cutter)
- CMYK x 2
- TFP PrecisionCore Head

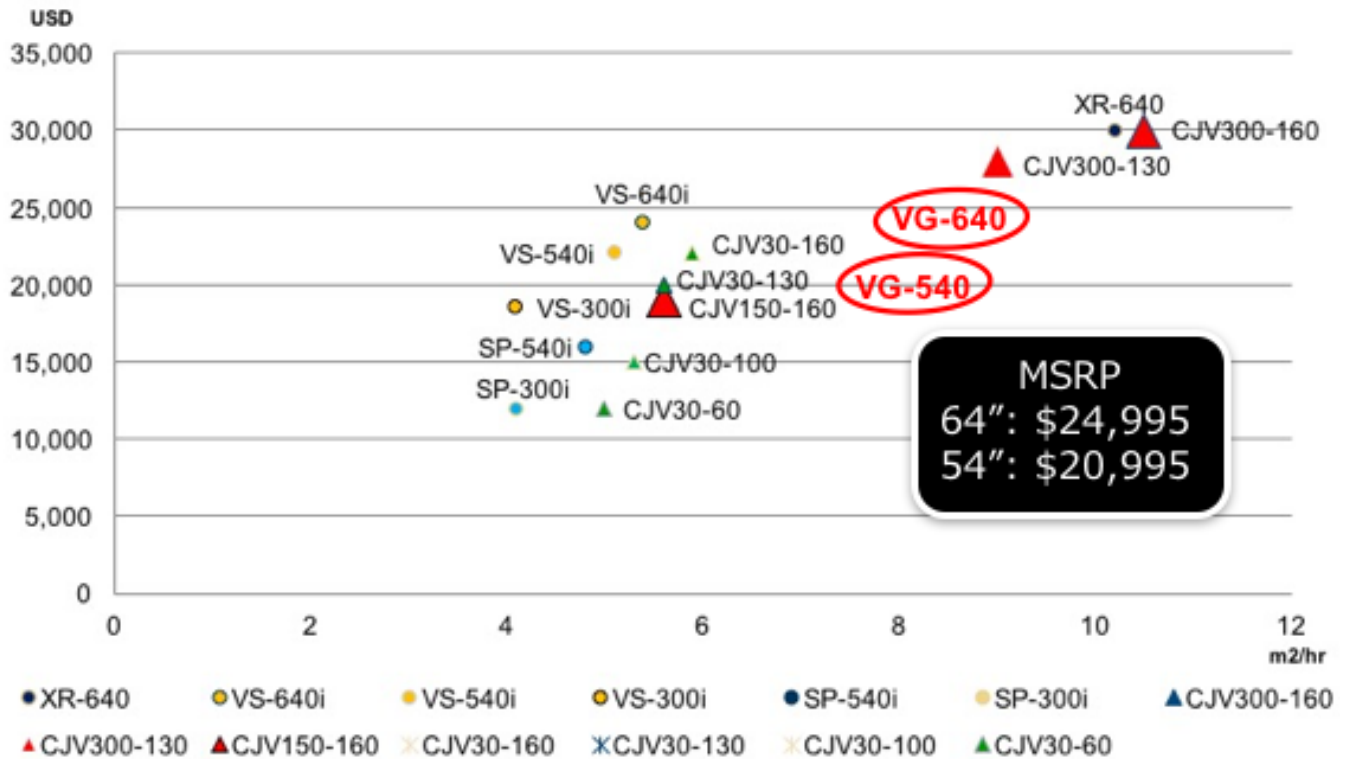
Mimaki CJV300-160/130

- 160 - \$24,994 (street \$19,000)
- 130 - \$21,995 (street \$17,000)
- 160 – 64" print/cut
- 130 – 54" print/cut
- CMYKLcLk=WH,MT

Mutoh VJ-1628x

- \$19,995 MSRP
- 64" Print Only (add \$6,000 for cutter)
- CMYKLCLm +WH,MT 4 config options
- DX7 Head

Competitive Map and Print Speed Comparison



Specifications

Roland TrueVIS VG Series			
Specifications		VG-640	VG-540
Printing technology		Piezoelectric inkjet	
Media	Width	8.3in-64in (210mm-1625mm)	8.3in-54in (210mm-1371mm)
	Thickness	Maximum 39 mil (1.0 mm) with liner for printing	
		Maximum 16 mil (0.4 mm) with liner and 9 mil (0.22mm) without	
	Roll outer diameter	Maximum 8.3 in (210 mm)	
	Roll weight	Maximum 88 lbs (40 kg)	Maximum 66 lbs (30 kg)
	Core diameter *1	3 in (76.2 mm) or 2 in (50.8 mm)	
Printing/cutting width *2		Maximum 63 in (1,600 mm)	Maximum 53 in (1,346 mm)
Replacable Ink Pouch	Type	Roland TrueVIS TR Ink	
	Capacity	500 cc CMYK Lc Lm Lk +WH	
	Colors	CMYKCMYK, CMYKLCmLk, CMYKLCmLk+WH	
Printing resolution (dots per inch)	Maximum 900 dpi		
Blade force	30 to 500 gf		
Blade offset	0 to 0.059 in (0 to 1.5 mm)		
Software resolution (when cutting)	0.000984 in/step (0.025 mm/step)		
Distance accuracy (when printing) *3 *4	Error of less than $\pm 0.3\%$ of distance traveled, or ± 0.3 mm, whichever		
Distance accuracy (when cutting) *3	Error of less than $\pm 0.4\%$ of distance traveled, or ± 0.3 mm, whichever		
	When distance correction has been performed (when the setting for [CUTTING MENU] - [CALIBRATION] has been made): Error of less than $\pm 0.2\%$ 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	± 0.5 mm or less		
Alignment accuracy for printing and cutting	Error of less than $\pm 0.5\%$ of distance traveled, or ± 3 mm, whichever		
Media heating system *8	Print heater	Setting range for the preset temperature: 86 to 112°F (30 to 45°C)	
	Dryer	Setting range for the preset temperature: 86 to 122°F (30 to 50°C)	
Connectivity	Ethernet (10BASE-T/100BASE-TX, automatic switching)		
Power-saving function	Automatic sleep feature		
Power requirements		AC 100 V to 120V $\pm 10\%$, 9.8A, 50/60Hz, or AC 220 to 240 V $\pm 10\%$, 5.2 A, 50/60 Hz	AC 100 to 120 V $\pm 10\%$, 7.9A, 50/60 Hz or AC 220 to 240V $\pm 10\%$, 4.1A 50/60Hz
		AC220V to 240V $\pm 10\%$, 5.2A, 50/60Hz	AC 220 to 240 V $\pm 10\%$, 3.8A, 50/60 Hz
Power consumption	During operation	Approx. 1,270 W	Approx. 1030 W
	Sleep mode	Seven colors: 40 W Four colors: 75W	Seven colors: 43W Four colors: 49W
Acoustic noise level	During operation	63 dB (A) or less	
	During standby	53 dB (A) or less	
Environmental	Power on	Temperature: 20 to 32°C (68 to 90°F) [20°C (68°F) or more recommended], Humidity: 35 to 80%RH (no condensing)	
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80%RH (no condensing)	
Dimensions (with stand)		VG-640	VG-540
		116(W) x 29.4(D) x 51.6(H) in 2,945(W) x 745(D) x 1,310 (H) mm	105.7(W) x 29.3(D) x 51.6(H) 2685(W) x 745(D) x 1,310(H)mm
Weight (with stand)	451.9lb (205kg)		421lb (191kg)
Included items	Stand, power cord, blade, blade holder, media clamps, media holder, replacement blade for separating knife, software RIP, user's manual.		



- *1 The media holder of this machine is exclusively for media with a paper tube core inner diameter of three inches. To use a two-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 1 m
- *5 [PREFEED] menu item must be set to "ENABLE," 64-inch and 54-inch models, media over 610 mm wide, and 4,000 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, 64-inch and 54-inch models: 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 power up. 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 Dual is a 32-bit application, which runs on 64-bit Windows® with WoW64 (windows 32-bit on Windows 64-bit).

4 Color Print Speeds

VG-640 Print Speeds 4 Color (CMYK x 2)							
Media Type	Print Mode	Resolution	Pass	Throughput			
				64inch		54inch	
				ft2/h	m2/h	ft2/h	m2/h
Generic Vinyl 1	High Quality	900x900	8p	114.1	10.6	107.6	10
	Standard	900x600	6p	152.8	14.2	144.2	13.4
	High Speed	600x600	5p	184.0	17.1	174.3	16.2
			4p	188.3	17.5	178.6	16.6
Generic Banner 1	High Quality	900x900	8p	114.1	10.6	107.6	10
	Standard	900x600	6p	152.8	14.2	144.2	13.4
	High Speed	600x600	4p	188.3	17.5	178.6	16.6
			3p	251.8	23.4	238.9	22.2
			Billboard	2p	374.4	34.8	345.4

4 Color Speed Comparison

VG-640 Print Speeds 4 Color (CMYK x 2)					
Media Type	Print Mode	Resolution	Pass	Speed (ft2/hr)	Speed (m2/hr)
Generic Vinyl 1	High Quality	900x900	8	114.1	10.6
	Standard	900x600	6	152.8	14.2
	High Speed	600x600	5	184.0	17.1
			4	188.3	17.5

54% faster than the VS-640i

VS-640i: Vinyl, 4 color, CMYK x 2, Generic Vinyl 1					
Media Type	Print Mode	Resolution	Pass	Speed (ft2/hr)	Speed (m2/hr)
Generic Vinyl 1	High Quality	1440 x 720	6	47	4.4
	Standard	720 x 720	6	117	10.9
	High Speed	540 x 720	5	141	13.1

39% faster than the XR-640 (7 Color)

XR-640: Vinyl, 7 color, CMYKLcLmLk, Generic Vinyl 1					
Media Type	Print Mode	Resolution	Pass	Speed (ft2/hr)	Speed (m2/hr)
Generic Vinyl 1	High Quality	720 x 1440	10	48.4	4.5
	Standard	540 x 720	6	109.8	10.2
		360 x 720	4	165.7	15.4
	High Speed	540 x 360	3	232.4	21.6

4 Color Consumption Comparison

	Cartridge ML	Cartridge Price	Cost per ML
TrueVIS INK	500	\$114.99	\$0.23
Eco Sol MAX 2	440	\$128.99	\$0.29

4 Color Ink Consumption Comparison					
		VG-640		VS-640i	
	DPI	ml used	total cost	ml used	total cost
High Quality	900x900	4.55	\$1.05		
	1440x720			3.99	\$1.17
	720x1440				
Standard	900x600	4.54	\$1.04		
	720x720			3.84	\$1.13
	540x720				
High Speed	600x600	3.86	\$0.89		
	540x720			3.76	\$1.10
	540x360				



4 Color Ink Consumption Comparison					
		VG-640		VS-640i	
	DPI	ml used	total cost	ml used	total cost
High Quality	900x900	8.93	\$2.05		
	1440x720			7.97	\$2.34
	720x1440				
Standard	900x600	9.13	\$2.10		
	720x720			7.62	\$2.23
	540x720				
High Speed	600x600	7.33	\$1.69		
	540x720			7.45	\$2.18
	540x360				



7 Color Print Speeds

VG-640 Print Speeds 7 Color (CMYKLcLmLk)							
Media Type	Print Mode	Resolution	Pass	Throughput			
				64inch		54inch	
				ft2/h	m2/h	ft2/h	m2/h
Generic Vinyl 1	High Quality	900x900	13p	67.8	6.3	64.6	6
			16p	56.0	5.2	53.8	5
	Standard	900x600	10p	89.3	8.3	85.0	7.9
			12p	75.3	7	71.0	6.6
	High Speed	600x600	9p	101.1	9.4	95.8	8.9
			6p	122.7	11.4	117.3	10.9
5p	148.5	13.8	143.1	13.3			
Generic Banner 1	High Quality	900x900	13p	67.8	6.3	64.6	6
			16p	56.0	5.2	53.8	5
	Standard	900x600	9p	101.1	9.4	95.8	8.9
			10p	89.3	8.3	85.0	7.9
			12p	75.3	7	71.0	6.6
	High Speed	600x600	6p	122.7	11.4	117.3	10.9
			5p	148.5	13.8	143.1	13.3

7 Color Speed Comparison

VG-640 Print Speeds 7 Color (CMYKLcLmLk)					
Media Type	Print Mode	Resolution	Pass	Speed (ft2/hr)	Speed (m2/hr)
Generic Vinyl 1	High Quality	900x900	13p	67.8	6.3
			16p	56.0	5.2
	Standard	900x600	10p	89.3	8.3
			12p	75.3	7
	High Speed	600x600	9p	101.1	9.4
			6p	122.7	11.4
5p	148.5	13.8			
VS-640i: Vinyl, 7 color, CMYKLcLmLk, Generic Vinyl 1					
Media Type	Print Mode	dpi	Pass	Speed (ft2/hr)	Speed (m2/hr)
Generic Vinyl 1	High Quality	1440x720	12	31.2	2.9
	Standard	720x720	12	58.1	5.4
	High Speed	540x720	10	68.9	6.4
XR-640: Vinyl, 7 color, CMYKLcLmLk, Generic Vinyl 1					
Media Type	Print Mode	Resolution	Pass	Speed (ft2/hr)	Speed (m2/hr)
Generic Vinyl 1	High Quality	720x1440	10	48.4	4.5
	Standard	540x720	6	109.8	10.2
		360x720	4	165.7	15.4
	High Speed	540x360	3	232.4	21.6

7 Color Consumption

	Cartridge ML	Cartridge Price	Cost per ML
TrueVIS INK	500	\$114.99	\$0.23
Eco Sol MAX 2	440	\$128.99	\$0.29

7 Color Ink Consumption Comparison							
		VG-640		VS-640i		XR-640	
	DPI	ml used	total cost	ml used	total cost	ml used	total cost
High Quality	900x900	7.69	\$1.77				
	1440x720			6.32	\$1.85		
	720x1440					7.02	\$2.06
Standard	900x600	6.93	\$1.59				
	720x720			5.39	\$1.58		
	540x720					6.84	\$2.01
High Speed	600x600	6.41	\$1.47				
	540x720			5.19	\$1.52		
	540x360					6.61	\$1.94



7 Color Ink Consumption Comparison							
		VG-640		VS-640i		XR-640	
	DPI	ml used	total cost	ml used	total cost	ml used	total cost
High Quality	900x900	14.59	\$3.36				
	1440x720			12.54	\$3.68		
	720x1440					11.49	\$3.37
Standard	900x600	12.86	\$2.96				
	720x720			9.97	\$2.92		
	540x720					9.39	\$2.75
High Speed	600x600	11.32	\$2.60				
	540x720			9.49	\$2.78		
	540x360					9.63	\$2.82



Summary

TrueVIS VG series printer/cutters take full advantage of Roland's proven technology and expertise developed over many years in the sign and graphic industries. They are quite simply the most advanced printer-cutters we have ever made. Our goal was to provide an innovative, state-of-the-art solution for our customers' businesses, while delivering optimum production capability for a vast array of signs and graphics. VG printer/cutters are the ideal tool for producing indoor and outdoor advertising, vehicle graphics, banners, posters and displays, labels and decals, packaging prototypes, apparel heat transfers, and more.