

Imagine.

 Roland®

**DVE**  
Digital Value Engineering



# VersaSTUDIO BN-20

Desktop inkjet printer / cutter



# Add Unlimited Value To Your Business with the Versatile VersaSTUDIO

The VersaSTUDIO BN-20 enables you to launch a stream of new businesses from your desktop. This compact professional inkjet can produce durable graphics for outdoor applications, and its Print&Cut capabilities allow you to produce labels and decals with ease. Metallic silver ink is perfect for creating striking effects, and white ink is ideal for transparent or coloured media applications. In short, the versatility of the VersaSTUDIO BN-20 adds unlimited potential to produce creative applications and add value to your business.

**High-Quality and Low Cost Durable Outdoor Prints**  
Four Colours

**Mobile Phone and Laptop Wraps** All Types

Roland Print&Cut versatility enables you to print and digitally die cut graphics in one seamless workflow for custom labels and decals, including mobile phone skins, laptop wraps and more.

**POS and POP** All Types

With the BN-20, you can produce POP displays in unique shapes and colours that attract attention and drive retail sales. Create a single POP or an entire campaign, profitably, with all the convenience of our easy-handling 220cc ink cartridges.

**Add Value to your Business with Metallic Prints**  
Four Colours + Metallic Silver Ink

**Posters and Decals**

Using Metallic Silver ink, you can add luxurious accents and premium value to posters, decals and photographic reproductions.

**Eye-Catching Creativity on Transparent Media**  
Four Colours + White Ink

**Window Signs**

Make shop windows come alive! See-through window displays are easily produced using transparent media. The effective use of white ink adds impact to display graphics.

**Labels and Decals**

Handle short runs for transparent stickers! Transparent labels and decals give a luxurious feel. Now you can handle short runs for teams, clubs and other groups.

**Package Designs**

Low-cost prototypes for design proposals. The BN-20 gives you the freedom to create package design prototypes on silver media. This increases your ability to offer winning proposals while minimising costs.

**Cut Vinyl Signage** All Types

From pinstriping for vehicles and motorcycles to window signs and displays, contour cutting is essential to your production workflow. The BN-20 enables you to cut vinyl signs using a wide variety of fonts\*.

\*The BN-20 supports TrueType and OpenType fonts.

**Labels and Decals for Outdoor Display** All Types

The BN-20 comes with award-winning Roland ECO-SOL MAX ink for outdoor signs, labels and decals. Graphics are easy to produce and durable up to three years outdoors without lamination.\*\*

\*\*1 Three-year outdoor durability is based on accelerated weather tests conducted by Roland DG. Results may vary depending on the location and application. Some applications, including vehicle graphics, may require lamination.

**3 years** Outdoor Durable Inks

**Heat Transfers for Garment Decoration**

Right at your desktop, you can print quality heat transfers and contour cut them into any shape for stylish results. Apply Metallic Silver ink for hundreds of striking metallic colour effects.\*\*

\*\*3 Metallic silver ink should only be used as a spot colour as mixing it with other colours will negatively impact washability.

**A Complete Solution on Your Desktop**

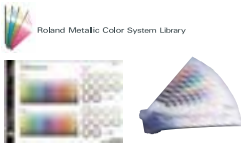
The BN-20 enables you to print graphics up to A2 size or 480 mm wide (18.9"), including crop marks for easy finishing. Featuring its own print management and design software, the BN-20 is a complete business solution in a box.

**20"** 293 mm 1009mm 682mm

**RIP & PRINT MANAGEMENT SOFTWARE**  
Roland VersaWorks<sup>®</sup> Adobe PostScript 3

**VersaSTUDIO SIGN MAKER BN-20**

- Four Colours
- Four Colours + Metallic Silver Ink
- Four Colours + White Ink



Roland VersaWorks® supports Adobe® Illustrator®, CorelDRAW® and other popular design software packages. Choose from a wide variety of layout functions including scaling, cropping, rotating, auto layout and tiling to optimise your print media. VersaWorks also features Roland Color System Libraries for accurate colour matching of traditional and metallic colours, and variable data printing which allows you to efficiently create a series of signs, labels and name badges in which the text and graphics change from one print to the next.



### Roland VersaWorks System Requirements

<b>Operating system</b>	Windows® 7 Professional/Ultimate (32/64-bit); Windows Vista® Business/Ultimate (32/64-bit); Windows® XP Professional Service Pack 2 or later (32/64-bit)
<b>CPU</b>	Core™2 Duo, 2.0 GHz or faster recommended
<b>RAM</b>	2 GB or more recommended
<b>Video card and monitor</b>	A resolution of 1,280 x 1,024 or more recommended
<b>Free hard-disk space</b>	40 GB or more recommended
<b>Hard-disk file system</b>	NTFS format
<b>Optical drive</b>	DVD-ROM drive

\*Roland VersaWorks™ is a 32-bit application, which runs on 64-bit Windows® with WoW64 (Windows 32-bit on Windows 64-bit).

### Application software compatible with Cutting and Print&Cut

Adobe® Illustrator® 10, CS, CS2, CS3, CS4, CS5 / CorelDRAW® 11, 12, X3, X4, X5

## R-Works Easy-To-Use Roland Design Software Included

R-Works\* allows you to immediately start designing graphics for the BN-20, even if you do not have any design software of your own. With R-Works, you can quickly import commercially-available stock photos or personal photos taken with a digital camera. Create original layouts with text and graphics for custom T-shirts, labels and decals.

\* R-Works does not correspond to a white ink loading type.



**R-Works System Requirements** Windows® 7 Professional/Ultimate (32-bit); Windows Vista® Business/Ultimate (32-bit); Windows® XP Professional Service Pack 2 or later (32-bit)

Specifications		
<b>Printing technology</b>	Piezoelectric inkjet	
<b>Media</b>	<b>Width</b>	150 to 515 mm (5.9 to 20.3 in.)
	<b>Thickness</b>	Maximum 1.0 mm (39 mil) with liner, for printing Maximum 0.4 mm (16 mil) with liner and 0.22 mm (9 mil) without liner, for cutting
	<b>Roll outer diameter</b>	Maximum 150 mm (5.9 in.)
	<b>Roll weight</b>	Maximum 6 kg (13.2 lbs.)
	<b>Core diameter</b>	76.2 mm (3 in.) or 50.8 mm (2 in.)
<b>Printing/cutting width*1</b>	Maximum 480 mm (18.9 in.)	
<b>Ink cartridges</b>	<b>Type and capacity</b>	Roland ECO-SOL MAX (220 cc cartridge)
	<b>Colours</b>	Five colours (cyan, magenta, yellow, black, and metallic silver or white) or Four colours (cyan, magenta, yellow, and black)
<b>Printing resolution (dpi)</b>	Maximum 1,440 dpi	
<b>Cutting blade</b>	<b>Type</b>	Roland CAMM-1 series compatible
	<b>Blade offset</b>	0.25 mm (9 mil)
<b>Cutting speed</b>	10 to 150 mm/s	
<b>Blade force</b>	30 to 300 gf	
<b>Software resolution (when cutting)</b>	0.025 mm/step	
<b>Distance accuracy (when printing)*2 *3</b>	Error of less than ±0.3% of distance travelled, or ±0.3 mm, whichever is greater	
<b>Distance accuracy (when cutting)*2 *4</b>	Error of less than ±0.4% of distance travelled, or ±0.3 mm, whichever is greater	
<b>Repetition accuracy (when cutting)*2 *5</b>	±0.1 mm or less	
<b>Alignment accuracy for printing and cutting)*2 *6</b>	±0.5 mm or less	
<b>Alignment accuracy for printing and cutting when reloading media)*2 *7</b>	Error of less than ±0.5% of distance travelled, or ±3 mm, whichever is greater	
<b>Print heater)*8</b>	Temperature: 35°C (95°F)	
<b>Connectivity</b>	USB (compliant with Universal Serial Bus Specification Revision 2.0)	
<b>Power-saving function / Power requirements</b>	Automatic sleep feature / AC 100 to 240 V ±10 %, 1.5 A, 50 / 60 Hz	
<b>Power consumption</b>	<b>During operation</b>	Approx. 90 W
	<b>Sleep mode</b>	Approx. 5.5 W
	<b>During operation</b>	62 dB (A) or less
<b>Acoustic noise level</b>	<b>During operation</b>	62 dB (A) or less
	<b>During standby</b>	42 dB (A) or less
<b>Dimensions / Weight</b>	995 (W) x 585 (D) x 291 (H) mm (39.2 (W) x 23 (D) x 11.5 (H) in.) / 35 kg (79.4 lbs.)	
<b>Environmental</b>	<b>Power on</b>	Temperature: 20 to 32°C (68 to 90°F), humidity: 35 to 80%RH (no condensation)
	<b>Power off</b>	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80%RH (no condensation)
<b>Included items</b>	Power cord, USB cable, blade, blade holder, Roland Software Package, Software RIP (Roland VersaWorks), User's Manual, etc.	

\*1 The length of printing or cutting is subject to the limitations of the program. \*2 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. \*3 Using Roland specified media, print travel of 1m. \*4 Using Roland specified media, cut travel of 1m. \*5 Range for assured repetition accuracy. Length 1,000 mm \*6 Provided that media length is under 1,000 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, 480 mm in the carriage-movement direction. No lamination. Automatic detection of crop marks at 4 points when media is reloaded. Excludes the effects of skewed 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 35°C (95°F) depending on the ambient temperature and media width.

Options	Model	Description
<b>ECO-SOL MAX Ink</b>	ESL3-MG	Magenta, 220 cc
	ESL3-YE	Yellow, 220 cc
	ESL3-CY	Cyan, 220 cc
	ESL3-BK	Black, 220 cc
	ESL3-MT	Metallic silver, 220 cc
	ESL3-WH	White, 220 cc
<b>Blade</b>	SL-CL	Cleaning liquid, 1 pc.
<b>Blade holder</b>	ZEC-U5022	For thick, reflective and fluorescent vinyl, 2pcs.
<b>Blade holder</b>	XD-CH3	Blade holder with blade extension adjuster, made of resin



Optional Stand  
**PNS-24**

### 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](http://www.rolanddg.com).



This product meets the energy efficiency requirements specified by ENERGY STAR. ENERGY STAR is a U.S. registered mark.



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