

# NILGIRI



# High-Resolution Printer

One Printer - Many Applications. Barcodes, logos, carton coding and more



Reliable technology with near  
zero downtime

Easy to use with minimal operator  
training required

Industry's lowest running costs

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more about HR Printer

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# HR Printer utilizes Piezo Drop On Demand (DOD) Inkjet Technology

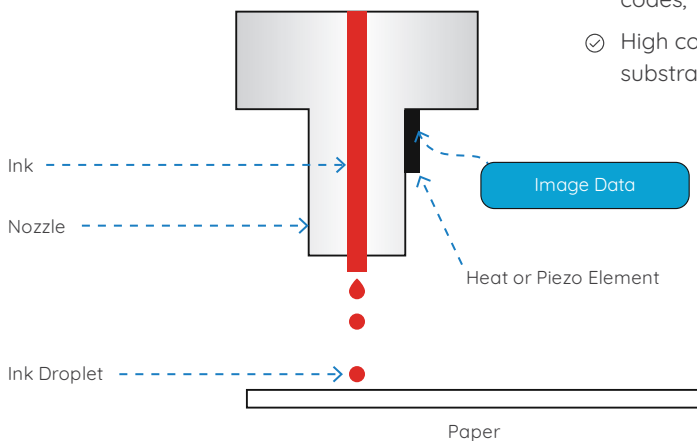
With only a few moving parts in the system, the odds of printer failure are minimized.

The Control Print NILGIRI is a High Resolution Printer based on the Piezo Drop on Demand Inkjet Technology. Using Oil based, UV and solvent based inks, this printer is especially suitable for a variety of variable (including linear and data matrix) barcodes, graphics & logos, real time information and text. It is suitable for printing across all varieties of corrugated and kraft shipper cartons and also used extensively in the Wood and Construction material industry. The HR Printer can be easily integrated across a wide gamut of end-of-line packaging applications and for printing on all porous materials.



## Reliability

- ✔ 17.8 mm or 71.6 mm print heights
- ✔ Excellent print quality & barcode scan ability with a high native resolution
- ✔ Highly reliable Piezo Drop on Demand Inkjet Technology
- ✔ Automatic purging and priming for zero maintenance and maximum reliability
- ✔ Simple, intuitive icon-based touch interface
- ✔ Minimal user training required
- ✔ Horizontal and Vertical print orientation options (For selected models)
- ✔ Large variety of print options including Linear and Data matrix Barcodes, QR codes, Text, Graphics & Logos, Real time and Sequential Numbering
- ✔ High contrast oil-based ink suitable for all porous substrates & non porous substrates



## Print Quality & Features

- ✔ High quality 180dpi (dots per inch) maximum print resolution
- ✔ 17.8 mm prints swathe per printhead with 128 independent nozzles; 71.6 mm printhead option with 510 independent nozzles
- ✔ Standard printing functions include QR codes, linear barcodes, data matrix barcodes, automatic date & time functions, numbering, graphics, logos
- ✔ Horizontal and vertical orientation possibility
- ✔ Various Customized CMYK coloured inks available
- ✔ Storage of up to 200 Messages, 1,000 logos
- ✔ Drop size control helps in getting good PQ on semi-glossy /semi pores substrates.

## Piezo Drop on Demand Inkjet Technology

- ✔ Piezo DOD printhead have a high native resolution. The HR controller fires each individual nozzle to eject small droplets of ink to form the required characters as per the print message.
- ✔ The combination of a long-lasting piezo DOD printhead, Oil or Solvent based inks which do not dry within the printhead, and automatic purging & priming, leads to unsurpassed reliability on the production line. The simplicity of the technology and the user interface ensures no dependency on trained manpower for operation or support.

## Uptime & Maintenance

- ✔ No printhead cleaning, filter replacements, or other maintenance requirements
- ✔ Automatic purging and priming with full ink recuperation ensures no ink wastage
- ✔ High ink tank capacity ensures infrequent refills
- ✔ Piezo drop-on-demand inkjet technology provides a long lasting printhead life
- ✔ No start-up/shutdown or long shutdown procedures to follow

## Simple, Intuitive Operation

- ✔ Large 12-inch user friendly, solvent resistant industrial touchscreen display with easy to use, icon based, WYSIWYG graphical interface
- ✔ Embedded Windows Software provides a familiar feel and ensures minimal user training
- ✔ User profile manager with multiple levels of access
- ✔ Minimal specialized support required for operation & maintenance
- ✔ Window based system ensures smooth and quick start up and shutdown procedures
- ✔ Logo can be prepared on a computer and transferred to the printer via a USB. No extra software or application required for logo formatting

# Flexibility, Communication, & Integration

- ⊗ Easy to setup and integrate on almost any packaging production line
- ⊗ Fully controllable through any Windows based PC for remote control of printers
- ⊗ Compact footprint
- ⊗ In the dual head variant, different messages can be printed in each head using a common sensor

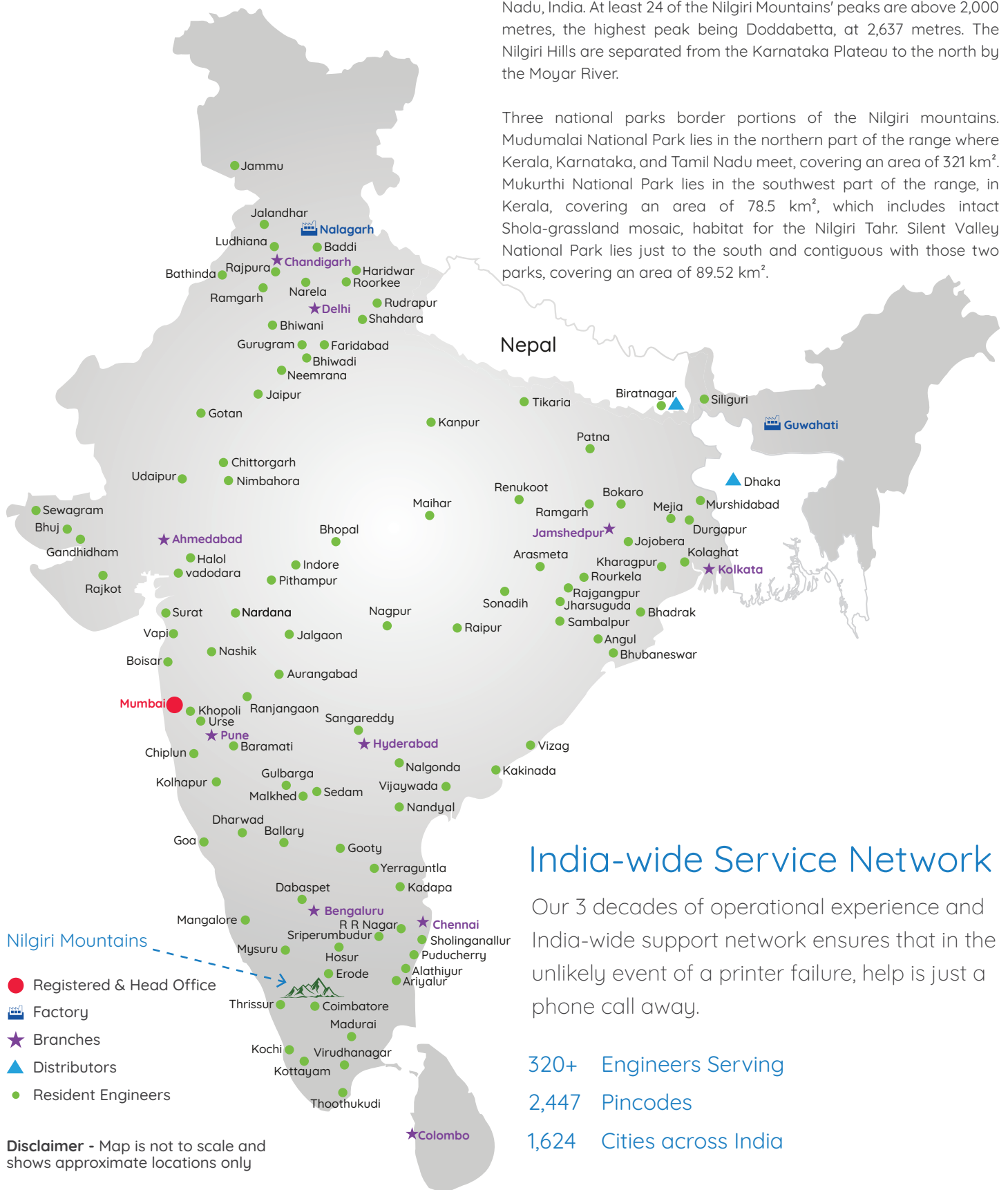
## Technical Specification

Product range	NILGIRI HIGH SPEED PRINTER	HIRES PRINTER CP510	HIRES PRINTER NC508 GS (UV)	HIRES PRINTER NC508 GS	HIRES PRINTER NC510(UV)	HIRES PRINTER NC510
SAP Code	30230023	30230036	30230035	30230034	30230028	30230027
<b>DIMENSIONS AND CONNECTED LOADS</b>						
Housing Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Protection Class	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Dimensions of Unit (H x W x D)	380 x 340 x 150 mm	322 x 250 x 140 mm	322 x 250 x 140 mm	322 x 250 x 140 mm	322 x 250 x 140 mm	322 x 250 x 140 mm
Screen	10.4" LCD Touch Screen	12" LCD Touch Screen	12" LCD Touch Screen	12" LCD Touch Screen	12" LCD Touch Screen	12" LCD Touch Screen
Weight	10 kgs	7 kgs	7 kgs	7 kgs	7 kgs	7 kgs
Electrical Requirement	120-240 V (+/- 10%), 50/60 Hz; 6A	120-240 V (+/- 10%), 50/60 Hz; 6A	120-240 V (+/- 10%), 50/60 Hz; 6A	120-240 V (+/- 10%), 50/60 Hz; 6A	120-240 V (+/- 10%), 50/60 Hz; 6A	120-240 V (+/- 10%), 50/60 Hz; 6A
Operating Temperature	10-50 degrees C	10-50 degrees C	10-50 degrees C	10-50 degrees C	10-50 degrees C	10-50 degrees C
Compressed Air Required	No	No	No	No	No	No
<b>HARDWARE</b>						
Number of PrintHeads	1 Head	1-2 (Standard) 4 (Optional)	1-2 (Standard) 4 (Optional)	1-2 (Standard) 4 (Optional)	1-2 (Standard) 4 (Optional)	1-2 (Standard) 4 (Optional)
Interface	10/100 MBit Ethernet, Broadcom BCM54610 / VNC Server	10/100 MBit Ethernet, Broadcom BCM54610 / VNC Server	10/100 MBit Ethernet, Broadcom BCM54610 / VNC Server	10/100 MBit Ethernet, Broadcom BCM54610 / VNC Server	10/100 MBit Ethernet, Broadcom BCM54610 / VNC Server	10/100 MBit Ethernet, Broadcom BCM54610 / VNC Server
Serial Interface	RS232 & RS485	RS232 & RS485	RS232 & RS485	RS232 & RS485	RS232 & RS485	RS232 & RS485
Alarm Output	Yes (Selectable)	Yes (Selectable)	Yes (Selectable)	Yes (Selectable)	Yes (Selectable)	Yes (Selectable)
Processor	Intel® Atom™ N2800 1.86GHz Processor	Intel® Celeron J3455 Quad Core 1.50 GHz - 2.30 GHz, 10W TDP 1 x 204-pin DDR3L-1866 SO-DIMM up to 8GB 2 x Intel I211-AT PCIe Gigabit LAN 1 x SATA3 6Gb/s 1 x M.2 SATA M-key 2242	Intel® Celeron J3455 Quad Core 1.50 GHz - 2.30 GHz, 10W TDP 1 x 204-pin DDR3L-1866 SO-DIMM up to 8GB 2 x Intel I211-AT PCIe Gigabit LAN 1 x SATA3 6Gb/s 1 x M.2 SATA M-key 2242	Intel® Celeron J3455 Quad Core 1.50 GHz - 2.30 GHz, 10W TDP 1 x 204-pin DDR3L-1866 SO-DIMM up to 8GB 2 x Intel I211-AT PCIe Gigabit LAN 1 x SATA3 6Gb/s 1 x M.2 SATA M-key 2242	Intel® Celeron J3455 Quad Core 1.50 GHz - 2.30 GHz, 10W TDP 1 x 204-pin DDR3L-1866 SO-DIMM up to 8GB 2 x Intel I211-AT PCIe Gigabit LAN 1 x SATA3 6Gb/s 1 x M.2 SATA M-key 2242	Intel® Celeron J3455 Quad Core 1.50 GHz - 2.30 GHz, 10W TDP 1 x 204-pin DDR3L-1866 SO-DIMM up to 8GB 2 x Intel I211-AT PCIe Gigabit LAN 1 x SATA3 6Gb/s 1 x M.2 SATA M-key 2242
USB	USB2.0 (02 ports ) USB3.0 (01 ports )	USB2.0 (02 ports ) USB3.0 (01 ports )	USB2.0 (02 ports ) USB3.0 (01 ports )	USB2.0 (02 ports ) USB3.0 (01 ports )	USB2.0 (02 ports ) USB3.0 (01 ports )	USB2.0 (02 ports ) USB3.0 (01 ports )
BCD Port (Remote message selection)	By LAN	5 PNP / NPN inputs	5 PNP / NPN inputs	5 PNP / NPN inputs	5 PNP / NPN inputs	5 PNP / NPN inputs
Encoder		PNP / NPN	PNP / NPN	PNP / NPN	PNP / NPN	PNP / NPN
Product Sensor	1 (option of 2) PNP / NPN	1 (option of 2) PNP / NPN	1 (option of 2) PNP / NPN	1 (option of 2) PNP / NPN	1 (option of 2) PNP / NPN	1 (option of 2) PNP / NPN
<b>PRINTING CAPABILITY</b>						
Print Resolution	360 DPI @150mpm	180 DPI @80mpm	180 DPI @80mpm	180 DPI @80mpm	180 DPI @80mpm	180 DPI @40mpm
Print Swathe	108mm	72mm	72mm	72mm	72mm	72mm
Drop Volume	25-225 pl	12pl-72 pl	12pl-72 pl	12pl-72 pl	12pl-72 pl	80pl
Printhead Type	Grey Scale	Grey Scale	Grey Scale	Grey Scale	Grey Scale	Binary
Supported Inks	UV-Solvent based	Oil based	Oil based	UV, Solvent based	Oil based	UV, Solvent based

## The Nilgiri Mountains

The Nilgiri Mountains form part of the Western Ghats in western Tamil Nadu, India. At least 24 of the Nilgiri Mountains' peaks are above 2,000 metres, the highest peak being Doddabetta, at 2,637 metres. The Nilgiri Hills are separated from the Karnataka Plateau to the north by the Moyar River.

Three national parks border portions of the Nilgiri mountains. Mudumalai National Park lies in the northern part of the range where Kerala, Karnataka, and Tamil Nadu meet, covering an area of 321 km<sup>2</sup>. Mukurthi National Park lies in the southwest part of the range, in Kerala, covering an area of 78.5 km<sup>2</sup>, which includes intact Shola-grassland mosaic, habitat for the Nilgiri Tahr. Silent Valley National Park lies just to the south and contiguous with those two parks, covering an area of 89.52 km<sup>2</sup>.



## India-wide Service Network

Our 3 decades of operational experience and India-wide support network ensures that in the unlikely event of a printer failure, help is just a phone call away.

320+ Engineers Serving

2,447 Pincodes

1,624 Cities across India

**Disclaimer** - Map is not to scale and shows approximate locations only

C-106, Hind Saurashtra Industrial Estate, Andheri-Kurla Road, Marol Naka, Andheri (East), Mumbai 400 059  
 +91 22 2859 9065 / 6693 8900 | marketing@controlprint.com | www.controlprint.com

AHMEDABAD | BENGALURU | CHANDIGARH | CHENNAI | COLOMBO | DELHI | GUWAHATI | HYDERABAD  
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