NOVA INTEGRATION SOLUTIONS

1000 SERIES

Rugged & Mil-Spec Printers

MODEL 1151

Military Grade Color Inkjet Printer

The Model 1151 is NOVA's flagship, military-grade color inkjet printer. Selected by Boeing for deployment aboard the P-8I Multi Mission Aircraft, the 1151 meets MIL-STD-461 (EMI/EMC), MIL-STD-704 (transients), MILSTD-810 (shock, transportation, bench handling, vibration, crash acceleration, explosive atmosphere, sand and dust, temperature, altitude and humidity).

The 1151 uses the same Hewlett Packard 6230 print engine as Model 1101, NOVA's RCOTS sibling model. However, the 1151 is more robust, contains expanded features, and conforms to military grade specifications.

From a performance perspective, Model 1151 is rated at 18 pages-perminuted in black mode, and up to 10 pages-per-minute in color mode; draft printing increases speed but reduces print quality. Standard HP ink cartridges are used. Power consumption is approximately 24W while printing and a mere ~1W in standby mode. When the internal heater option is installed, power consumption is 172W in sustained print mode and 127W in standby mode. The heater option allows the printer to operate down to -40°C.

Standard I/O interfaces include USB 2.0 and Ethernet (10/100 Base-T). The USB port is pinned out to Amphenol's popular "USBFTV" FIELD circular connector. The Ethernet port is pinned out to Amphenol's "RJFTV" FIELD circular connector. Custom data connectors and power cords of can be configured.

A "Short" model is also available which reduces depth from roughly 24" to 17". Contact Nova Integration Solutions for more information.

For more information on our wide range of capabilities, products, and services, please visit our web site at: www.novaintegration.com

- **Compact, Light-Weight Design**
- **Tabletop or Shock Tray Mounting**
- **1200 x 600 dpi Optimized Photo-Quality Color Printing**
- **18ppm Black / 10ppm Color (ISO)**
- **Ethernet and USB Interfaces Via Rugged Military Circular Connectors**
- **Tested and Passed:**
  MIL-STD-810F Shock, Method 516.5
  MIL-STD-810F Vibration, Method 514.5
  MIL-STD-461E EMI/EMC
  MIL-STD-704E Transients
  RTCA/DO-160F Humidity, Section 6.3.1, Category A
- **Very Low Power Consumption**
- **Standard 110-220 VAC 47-440Hz or 18-32 VDC Power Input**
- **Heater for -40°C Operation**
- **Automatic Duplex Printing**
- **Optional "Short" Model for Space Challenged Applications**
- **256MB Installed Internal Memory**

ISO 9001 BUREAU VERITAS Certification
Certificate Number: 191482

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An Engineering-Based small business with a focus on meeting your mission critical packaging needs

1000 SERIES
MODEL 1151

Environmental Characteristics

Temperature, operating	0°C to +50°C -40°C to +50°C w/ heater
Temperature, non-operating	-40°C to +85°C
Humidity	RTCA/DO-160F, Section 6.3.1, Category A, 6% to 95% RH, non-condensing
Low pressure	MIL-STD-810F, Method 500.4, Procedures I and II, (atmospheric pressure corresponding with -1,500 ft.)
Rapid decompression	MIL-STD-810F, Method 500.4, Procedure III from 8,000 ft. up to 41,000 ft. in 15 sec.
Altitude, operating	-1,500 ft. to 15,000 ft.
Altitude, non-operating	-1,500 ft. to 45,000 ft.
Vibration, operating	MIL-STD-810F, Method 514.5, Procedure I, Cat 8 Wheeled Vehicle, US Army CHS-3 profile
Vibration, non-operating	MIL-STD-810G, Method 514.6, Proc I, secured cargo, basic transportation
Shock, operating	MIL-STD-810F, Method 516.5 Procedure I (functional shock for wheeled vehicles)
Shock, transportation	MIL-STD-810F, Method 516.5, Procedure IV, Transit Drop
Shock, non-operating (Bench handling)	MIL-STD-810F, Method 516.5 Procedure VI
Explosive atmosphere	MIL-STD-810F, Method 511.4, Procedure I (up to 11,000 ft.)
Crash acceleration	MIL-STD-810F, Method 516.5 Procedure V (16G limit)
Inclination	0° to 30° in any axis
EMI/EMC	MIL-STD-461E, Method CE101, CE102, CS101, CS102, CS114, CS115, CS116, RE101, RE102, RS101, RS103
ESD	DO-160E, Section 25
Grounding and bonding	MIL-STD-464 & BAC5117-1
Sand and Dust	MIL-STD-810F, Method 510.4, Proc. I, II & III
Rain	MIL-STD-810F, Method 506.4, Procedure III

Electrical Characteristics

Input Power (standard)	90-264 VAC @ 47-440 Hz 18-32 VDC
Power Consumption	Printing 25W Standby 4W Deep Sleep <1W 172W with heater max
EMI Filtering	MIL-STD-461 compliant, military grade input power EMI Filter standard
Power Transients	Optional (MIL-STD-704 or MIL-STD-1275)
Data Interface	Ethernet via RJFTV D38999 USB 2.0 via USBFTV D38999

Physical Characteristics

Dimensions	8.8" H x 19.21" W x 24.3" D
Weight	40 lbs. (Standard tabletop)
Mounting	Tabletop or ARINC shock tray

Performance Characteristics

Resolution	600 x 1200 dpi
Print Speed	18 ppm black / 10 ppm color
Duplex Printing	Automatic
Memory	256MB Installed
Languages and Fonts	HP PCL 6 GUI, PCL 3 Enhanced
Paper Sizes	Letter (8.5" x 11") & A4
Paper Input	225-sheet input tray
Processor	500 MHz

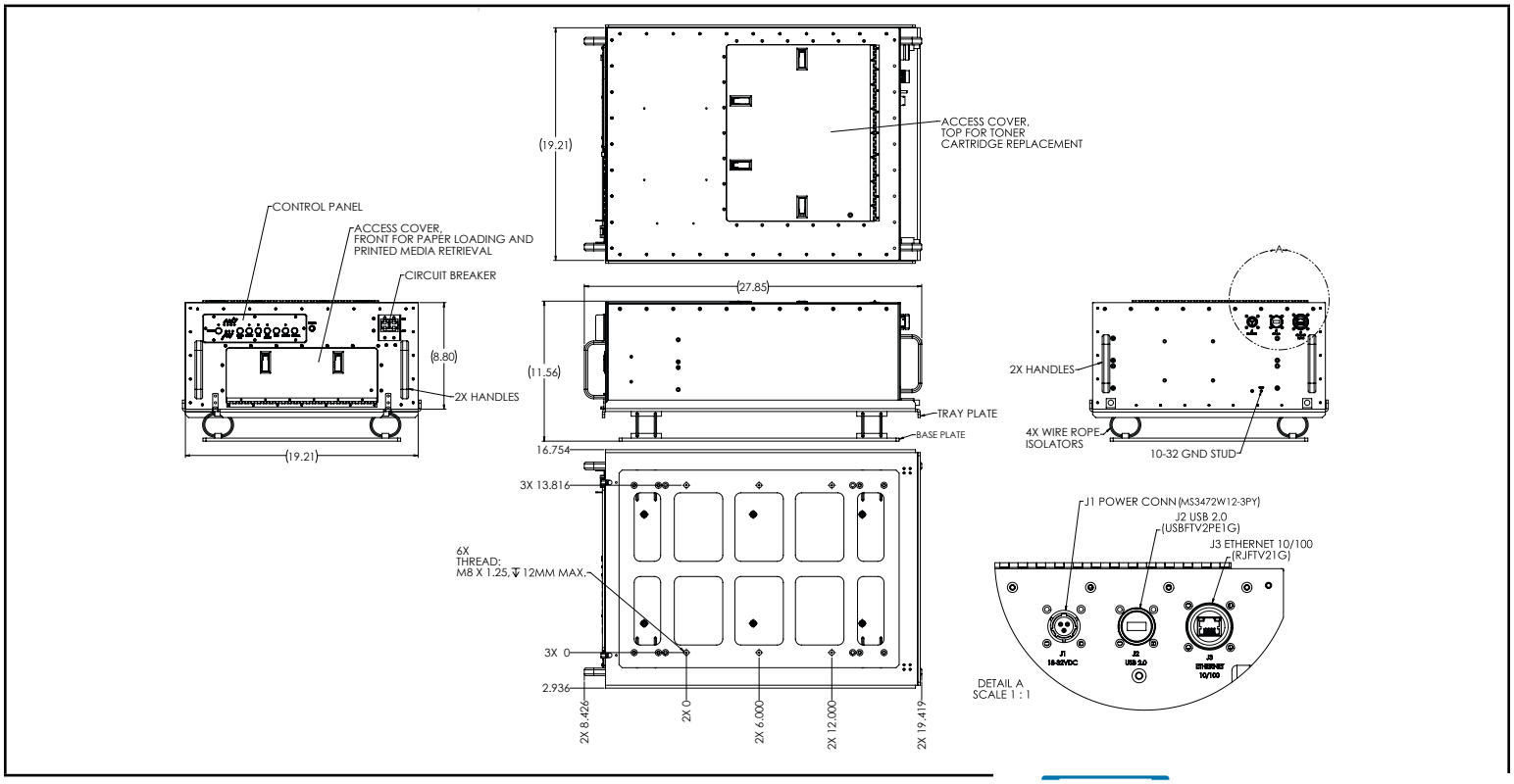
Ordering Table

95-1151-MPHD0-00X

MOUNTING	POWER	HEATER	DEPTH	CONFIG
0 Tabletop	6 110-220VAC 47-440 Hz	0 None	0 Long 24"	1 Standard
4 Shock Tray	8 18-32 VDC	1 Installed	1 Short 17"	x Customer Specific

Contact factory for additional configurations and options

Outline Drawing



* Products may vary from the specifications and images depicted within this document and are subject to change without notice. Nova Integration Solutions tak
Please contact Nova integration Solutions for further information about our products.