

MIL-SPEC COLOR INKJET PRINTER

MODEL 1150



Model 1150 is NOVA's flagship, military-grade color inkjet printer. Selected by Boeing for deployment aboard the P-8I Multimission Aircraft (MMA) aircraft, the 1150

was designed to and passed MIL-STD-461 EMC, MIL-STD-704 Transients, and MIL-STD-810 [Transportation] Shock, Vibration, Crash Acceleration, and Sand and Dust methods.

The 1150 uses the same Hewlett Packard 6988/6940 print engine as Model 1100, NOVA's RCOTS sibling model. However, the 1150's design is more robust and contains more MIL-spec components than the 1100.

From a performance perspective, Model 1150 is rated at 36 pages-per-minute in black mode, and up to 27 pages-per-minute in color mode, and uses standard H-P ink cartridges. Power consumption is approximately 172 Watts in sustained print mode due to its internal heating element that allow sit to operate down to -20°C. In Standby Mode, the 1150 draws a mere 5 Watts.

Standard I/O interfaces include USB 2.0 and Fast Ethernet (10/100 Base-T). The USB port is pinned out to Amphenol's popular "USBFTV" *FIELD* circular connector, a MIL-DTL-38999 Series-III connector; the Ethernet port is pinned out to an MS3472 series connector, though it can be ordered with an Amphenol "RJFTV" *FIELD* circular connector.

Continued availability of the HP engine and spare parts up to five (5) after their announced discontinuation is assured by NOVA's EOL program.

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



- **4800 X 1200 dpi Optimized Photo-quality Color Printing**
- **Printing speeds: 36 ppm Black and 27 ppm Color**
- **32 MB Installed Internal Memory**
- **Ethernet and USB Interfaces**
- **Tested/Passed:**
 - MIL-STD-810F Shock, Method 516.5**
 - MIL-STD-810F Vibration, Method 514.5**
 - MIL-STD-461E EMC**
 - MIL-STD-704E Transients**
 - RTCA/DO-160F Humidity, Section 6.3.1, Category A**
- **Low Power Consumption ideal for DC operation**
- **Tabletop or DO-160 ARINC shock tray mount**
- **Standard 92-264 VAC or optional 18-36 VDC input power**
- **Light-Weight and Compact Design**

SPECIFICATIONS

ENVIRONMENTAL CHARACTERISTICS

Temperature, operating	-20°C to +50°C
Temperature, non-operating	-40°C to +85°C (ink cartridges removed)
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. (ink cartridges removed)
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	MIL-STD-810F, Method 516.5 Procedure I (functional shock for wheeled vehicles)
Transportation	MIL-STD-810F, Method 516.5, Procedure IV, Transit Drop
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 (20 contact points)
Sand and Dust	MIL-STD-810F, Method 510.4, Proc. I, II & III
Grounding & Bonding	MIL-STD-464 & BAC5117-1

PHYSICAL CHARACTERISTICS

Size	6U (10.47 in) H x 20.0 in W x 21.0 in D
Weight	30 lb
Mounting configurations	Tabletop; ARINC shock tray (DO-160)

ELECTRICAL CHARACTERISTICS

Input Power, standard	92 - 240 VAC @ 47-63Hz
Input Power, option	18-36 VDC
Power Consumption	Printing @ 173 W; Standby @ 5 W
Power Transients	MIL-STD-704E (704 is for aircraft; use MIL-STD-1275D for vehicles)
Data Interfaces	Fast Ethernet via D38999, and USB 2.0 via separate D38999

PERFORMANCE CHARACTERISTICS

Resolution	4800 X 1200 dpi color 1200 x 1200 dpi black
Print Speed	27 ppm color; 36 ppm black
Memory	32MB (non-expandable)
Languages and Fonts	HP PCL Level 3 HPA
Paper Size	Letter, legal, executive, envelopes Custom sizes 3" x 5" to 8.5" x 24"
Paper Input	150-sheet input tray

ORDERING TABLE

95-1150-05000-001	92-264 VAC @ 47-63 Hz; Tabletop (not designed for ARINC shock tray)
95-1150-45000-001	92-264 VAC @ 47-63 Hz; ARINC shock tray (DO-160) included
95-1150-07000-001	18-36 VDC; Tabletop (not designed for ARINC shock tray)

