Arizona 1300

Site preparation guide



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Chapter 1
Introduction

Use of the Site Preparation Guide

Introduction

This document contains important information for the installation and safe use of the Arizona 1300 printer.

Read this information carefully, and in case of questions please contact your Canon representative.

At the end of this document the checklist should be filled out and signed for by the customer. This is to safeguard that all relevant (safety) information has been understood and necessary requirements for the installation have been met. Also the actions agreed upon with the customer should be filled in.

The Site preparation Survey is important to safeguard that we have informed the customer of all relevant safety and environmental aspects. Therefore the Site Preparation Survey is obliged before every installation!

You should store a copy of this signed checklist at the local NSO back office.

Product Support, Documentation and Service

For further information on support for your Arizona printer or for information on other Canon Large Format Graphics Systems products visit our web site: *https://graphiplaza.cpp.canon/support/service-support/*

Do you have comments on this manual? Please E-mail to: **cpp-dt@cpp.canon**

Canon maintains a comprehensive support structure for its customers. Upon installation of your printer, you will be provided with the name of your sales and service office. Record this information, along with the serial number of your printer. Always report service problems to the office assigned to your account at installation.

Important Site Preparation Guide updates

Introduction

This page is used to inform you about important updates in the Site Preparation Guide of the Arizona 1300

Latest Site Preparation Guide updates

Item	Description	Date
Update	Added warning for alarm systems in case of scheduled AMS use. Changed Room Lighting Specification.	2023-08
Update	Updated electrical and ventilation specifications.	2021-12
New	First released version of the Site Preparation Guide.	2021-06

Notes for the reader

Safety symbols

Before you use this product, make sure you read and understand the safety information that belongs to the product. You can find the safety information in this TSM. Also be sure to follow all warnings and instructions marked on the product.

This manual uses the following safety symbols to indicate hazards and precautions.

Symbol	Type of symbol	Indicates
	**WARNING**	Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. To use the machine safely, always pay attention to these warnings.
	**CAUTION**	Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions.
	**IMPORTANT**	Indicates an operational requirement or restriction. Read these items carefully in order to prevent damage to equipment, software, data, media, or property.
	**NOTE**	Indicates a clarification of an operation or contains additional explanations for a procedure. Reading these notes is highly recommended.

Chapter 2

Product Description and Safety Information

Flatbed Printer

Arizona 1300 GT or XT flatbed inkjet printers consist of a vacuum table, a moving gantry, and a podium with the user interface display. The Arizona 1300 XT printer has a larger vacuum table than the GT printers.



Arizona 1300 GT Printer with RMO

IMPORTANT
All Arizona printers must be operated in accordance with the environmental conditions specified in this Site Preparation Guide.

User Documentation and other support material for the Arizona printers are available on our web site:

https://graphiplaza.cpp.canon/hardware/.

Roll Media Option

A Roll Media Option (RMO) is available for the printers allowing the use of media that is supplied on a roll. This optional unit is crated and shipped separately. Once the RMO is installed, it shares the print gantry with the base configuration.

Ink and Flush Safety

The safety measures involved with the handling and use of the UV ink and Flush are detailed in the material Safety Data Sheet (MSDS) documents. You should review them before handling any UV ink or flush. The MSDS for all UV inks and Flush are available from the corporate Downloads website.

For the latest MSDS and PSDS, visit *https://downloads.cpp.canon/*.

Work safe with UV ink

	• **Wear the prescribed safety glasses with side shields.** • **Ink contains sensitizing components. Cumulative exposure of even small amounts can lead to skin sensitization.**
	• **Avoid all skin contact with partially or uncured ink.** • **Wear the prescribed gloves when you can get into contact with ink. Wear the prescribed sleeves when arm contact with contaminated surfaces is possible. Gloves should overlap sleeves.** • **When gloves are contaminated with ink, immediately switch to new gloves.** • **Do not reuse gloves.** • **When ink contacts your eyes, flush with water, consult the safety data sheet and contact a doctor immediately.** • **When ink contacts your skin, clean immediately with soap and water. Do not use alcohol or any other cleaning solvents.** • **Dispose of ink waste according to local regulations.** **All waste containing uncured or partly cured ink is hazardous and must not be recycled and disposed of separately according to local regulations. Do not mix ink waste with non-hazardous waste (household, office, etc). Do not allow it to reach sewage systems or drinking water supplies. Ink waste includes maintenance pads, cleaning cloths, swabs, foams, gloves and any other material containing uncured or partly cured ink.**

Disposal of UV Ink

All waste containing uncured or partly cured UV ink is hazardous and must be disposed of separately according to local regulations. Do not mix ink waste with non-hazardous waste (household, office, etc.). Do not allow it to reach sewage systems or drinking water supplies. Ink waste includes contaminated cloths, gloves, swabs and any other material containing uncured or partly cured UV ink.

UV Light Safety

Work safe with UV light





- **Be aware that LED UV light is an invisible risk.**
- **Some medications can make you more susceptible to LED UV light.**
- **Wear UV safety glasses that reduce harmful UV and blue light below local exposure limits in the wavelength range of 365 nm – 435 nm. UV safety glasses need to be certified as UV protective eyewear. Safety glasses must comply with the latest local regulations.**
- **Do not look directly at the light source without protective eyewear.**
- **Wear appropriate clothing that protects the skin from LED UV light exposure.**
- **Keep a distance of at least 1 meter (3 ft) from the LED UV units when in operation.**
- **Do not sit within 5 meters (17 ft) of the carriage when printing.**

For more safety information, See the User Guide “Safety Information” and also download the Arizona “Care and Use poster” from our website: *https://downloads.cpp.canon*.

Chapter 3
Shipping & Handling

Introduction

All items are shipped in wooden crates.

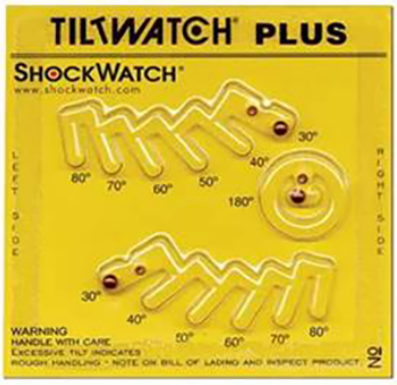
Due to the delicate nature of the contents it is essential to have the proper equipment available for handling and moving the shipping crates.

Packed in their crates, the equipment can withstand normal vibrations from road or air travel.

Severe shock or tilt, may damage the precision components, so each crate is fitted with shock and tilt watches.



Shock detectors



Tilt detector

All equipment must be un-crated by a qualified service engineer.

Arizona 1300 GT Printers

Crated Dimensions & Weights for Arizona 1300 GT Models

Items	(m)			(inch)			Weight	
	L	W	H	L	W	H	(kg) (lb)	(kg) (lb)
1300 Series GT	5.21	2.16	1.57	205	85	62	1535	3384

Add 13mm (1/2”) to each dimension to allow for bolt heads



Typical Arizona 1300 GT Crate

Weight Distribution:
- Even for length of the crate
- Uneven for width - front of crate is heavier by a 60/40 ratio

Forklift Access:
- Long side (lift from indicated side only) - fork length minimum of 1.45 meter (57 inches)
- Short side (lift from either side) - fork length minimum of 3.3 m (130 inches)

Pallet Jacks: The crate can be transported for a short distance using 2 standard pallet jacks.

IMPORTANT
The GT crate must not be tilted greater than 45 degrees.

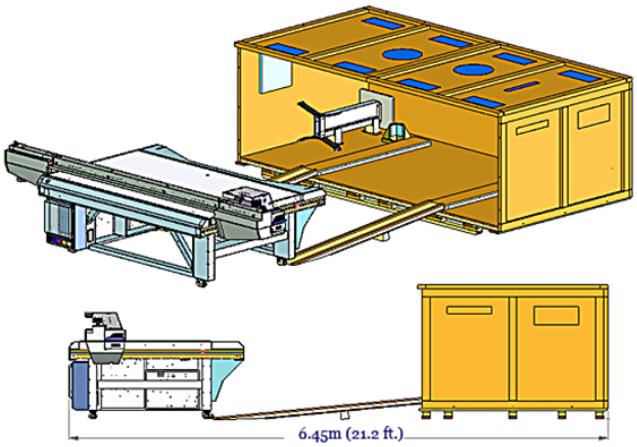
Un-Crating Requirements

Tools Needed:
- Impact drill with 1/2" socket - 13mm socket/ratchet will be sufficient for unbolting
- Drill with "Torx" bit for unscrewing securing brackets inside the crate
- Utility knife for cutting plastic straps and opening boxes

Space Required:

6.5m x 5m (21.3ft x 16.4ft)

Space Requirements for Un-crating the Arizona 1300 GT printers



IMPORTANT
The Arizona 1300 GT printers have two cross-brace struts on their base frame. If a strut is bent during installation, it must be replaced.

Facility Requirements

To install the GT printer, the customer's facility should meet the following requirements:

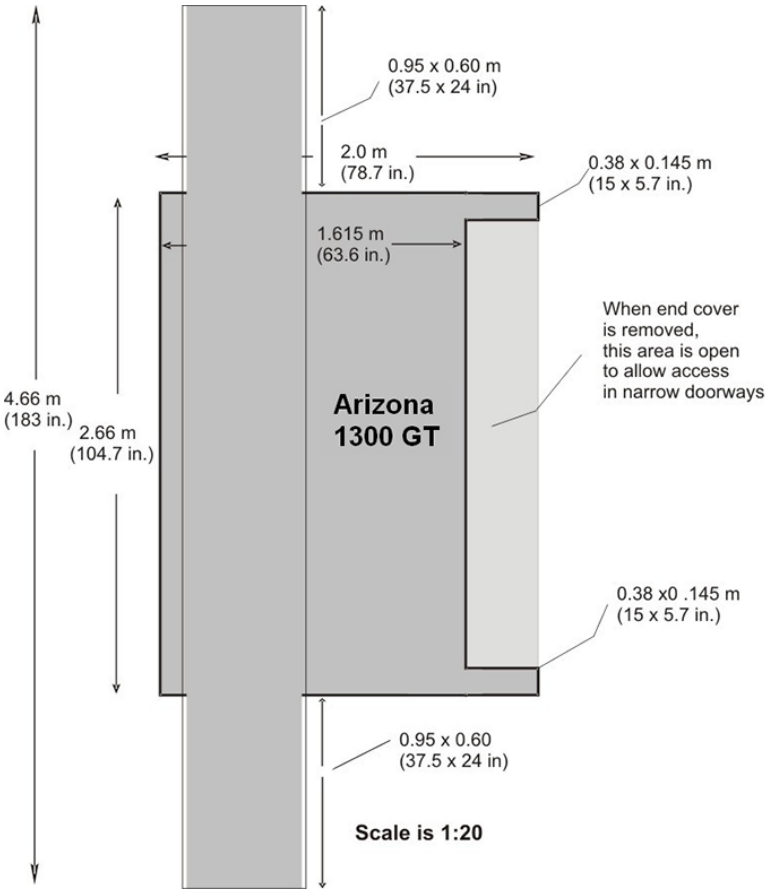
Hallway width (Minimum): 2.07m (81.5") - This allows for approximately 75mm or 3" of total clearance.

Door opening (Minimum): 1.67m (66")

NOTE
The printer will be able to fit through the minimum opening assuming there is adequate space on either side of the door to negotiate it through. A panel on the printer can be removed to facilitate this operation in situations where the doorway is less than the width of the printer.

The illustration below will assist you to determine whether the printer can fit through a doorway or negotiate turns in a corridor. This image is also available on our web site and can be used with a scale model of your facility to ensure that you can accommodate the printer.

NOTE
The printed version of the image on this page is not to scale - use the file from Customer Support section of the web site, which is scaled at 1:20). *https://graphiplaza.cpp.canon/hardware/product/arizona-1300-current-technical-information/*



Printer Dimensions

Tilt-n-Go for Arizona 1300 GT Printers

Some buildings have limited access points that restrict entry for the Arizona 1300 GT printers. To meet this challenge, Canon has developed a special lifting/Tilting tool.

The Tilt-N-Go is a special lifting tool designed to tilt the printer on its side for access through narrow doorways. No printer modifications are required in order to use the Tilt-N-Go.

Some parts must be removed to prevent damage and then the large brackets can be attached on each side. These brackets are joined to the lifting assemblies and allow the installers to lift and rotate the printer so it can be moved through smaller spaces.

NOTE
Tilt-n-Go is available only for Arizona 1300 GT printers,
NOT available for the Arizona 1300 XT printers

Minimum Access Dimensions

When rotated on the Tilt-n-Go, the Arizona 1300 GT printer will fit through a hallway/doorway with these dimensions or larger:

Minimum Hall or Door Dimensions for Tilt-N-GO

	(meters)		(inches)	
	W	H	W	H
GT	1.30	1.99	52″	78.4″

This is narrower than the minimum doorway width that can be negotiated in the normal orientation without a Tilt-n-Go (see the printer dimensions).

Safety

It is critical that the rigging and movement of the printer using the Tilt-N-Go is performed by rigging/logistics professionals ONLY, but under supervision of trained Canon personnel.

Instructions provided with the kit must be followed exactly.

How to get a Tilt-n-Go for printer installation

If you require the Tilt-n-Go tool to install the printer, please contact your local Canon Service representative for more information.

Arizona 1300 XT printers

The XT printer is a larger version of the GT printer. The XT printer is shipped in 4 crates. Ramps are provided so the larger pieces of equipment can be rolled down from their crates to the floor. The ramps are located in the gantry crate. In order to optimize loading of the crates in to shipping containers crate 4 will be strapped to the top of crate 3. At that point the maximum allowable tilt angle for the 2 crates together will be 15º.

Crate 1: Table, Blower box (x 2), Podium, Monitor

Crate 2: Table, Large Overlay (x 2), Small Overlay (x2)

Crate 3: Gantry/E-Box, Misc. Hardware

Crate 4: Ink Bay

IMPORTANT
If an XT printer needs to be moved after the initial installation, it must always be fully dismantled and reinstalled by a factory-trained service technician no matter how small the distance of the move.

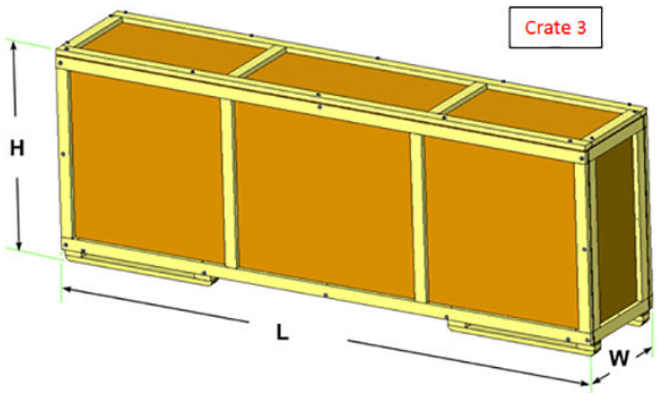
Crated Printer

Crated Dimensions & Weights for Arizona 1300 XT Models

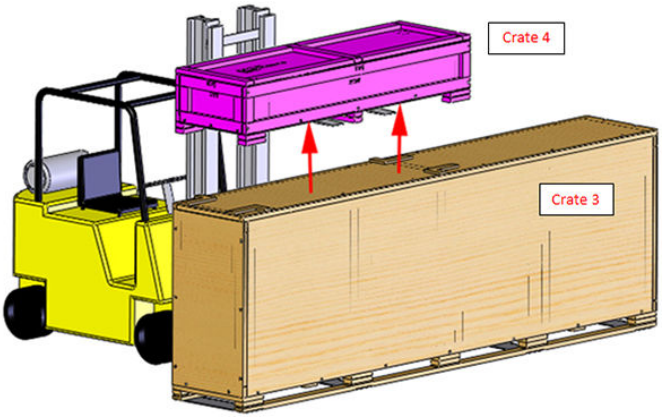
	Crate 1	Crate 2	Crate 3	Crate 4
Weight	835 kg (1841lb)	757 kg (1669 lb.)	763 kg (1682 lb.)	161 kg (355 lb.)
Width	1.520m (60”)	1.520m (60”)	0.768m (30 ¼”)	0.768m (30 ¼”)
Length	3.956m (155 ¾”)	3.956m (155 ¾”)	5.163m (203¼”)	2.610m (102 ¾”)
Height	1.110m (44”)	1.110m (44”)	1.620m (64”)	0.518m (20 ”)
Tilt Angle (max)	45º	45º	15º	45º

Add 13mm (1/2”) to each dimension to allow for bolt heads

XT Gantry Crate

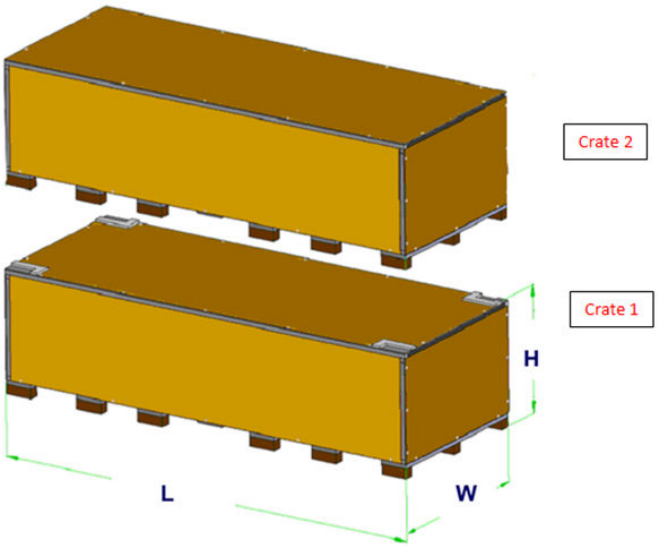


Ink Enclosure is stacked on the Gantry Crate



IMPORTANT
The XT gantry crate must not be tilted more than 15 degrees! Try to keep it level at all times.

XT Table Crates



IMPORTANT
Arizona 1300 XT table crates are designed to be stacked. Make sure they are stacked as shown in the figure above. Do not tilt the table crates when they are stacked. If the crates are not stacked they can be tilted up to 45 degrees, but it is still best to keep them level.

Facility Requirements XT

To install the printer, the customer's facility should meet the following requirement:

Hallway width (Minimum): 1.41m (55.5") - This allows for approximately 75mm or 3" of total clearance.

Roll Media Option (RMO)

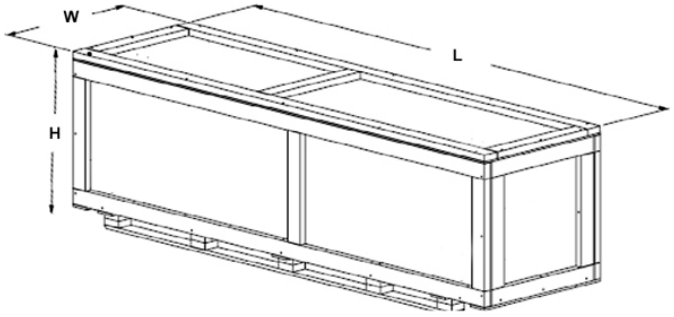
Crated RMO

Crated Dimensions & Weights for RMO

Weight	325kg (716 lbs.)
Width	0.819m (32 ¼”)
Length	2.921m (115”)
Height	0.940m (37”)
Max Allowable Tilt Angle	20º

Add 13mm (1/2”) to each dimension to allow for bolt heads

RMO Crate



IMPORTANT
The RMO crate must not be tilted more than 20 degrees.

Chapter 4
Specifications and Requirements

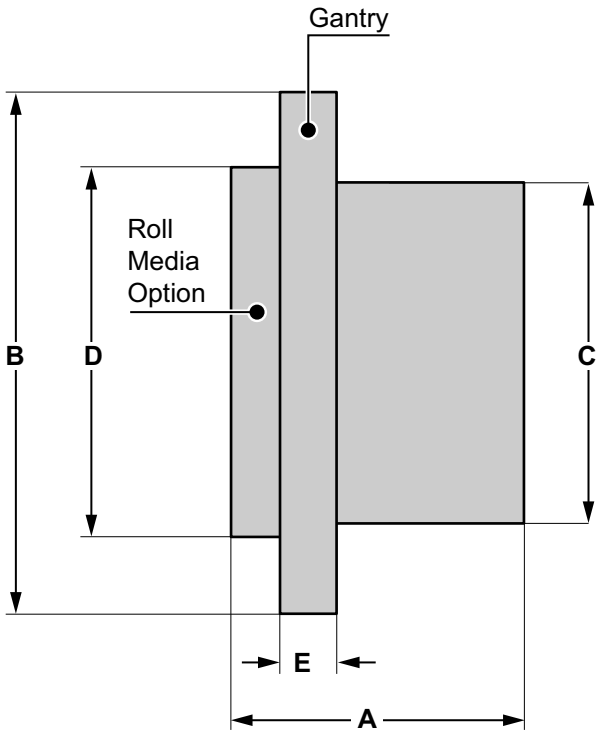
Printer dimensions and weights

Introduction

This section gives an overview of the printer dimensions in different configurations.

Dimensions and weights

Printer dimensions



Height (Table): 0.88m (34.65”)

Height (Gantry): 1.300m (51.18”)

Dimensions and Weights for Printer Models

	Dimensions					Weight
	A	B	C	D	E	
Standard GT	1.997m 6.551ft	4.656m 15.275ft	2.664m 8.740ft	2.664m 8.740ft	0.547m 1.795ft	856kg 1887 lb.
Standard GT with RMO	2.285m 7.496ft	4.656m 15.275ft	2.664m 8.740ft	2.884m 9.461ft	0.547m 1.795ft	1106 kg 2438 lb.
Standard XT	3.827m 12.55ft	4.656m 15.275ft	2.664m 8.70ft	2.664m 8.740ft	0.547m 1.795ft	1667 kg 3675 lb.
Standard XT with RMO	4.115m 13.50ft	4.656m 15.275ft	2.664m 8.740ft	2.884m 9.461ft	0.547m 1.795ft	1917 kg 4226 lb.

Operation space requirements

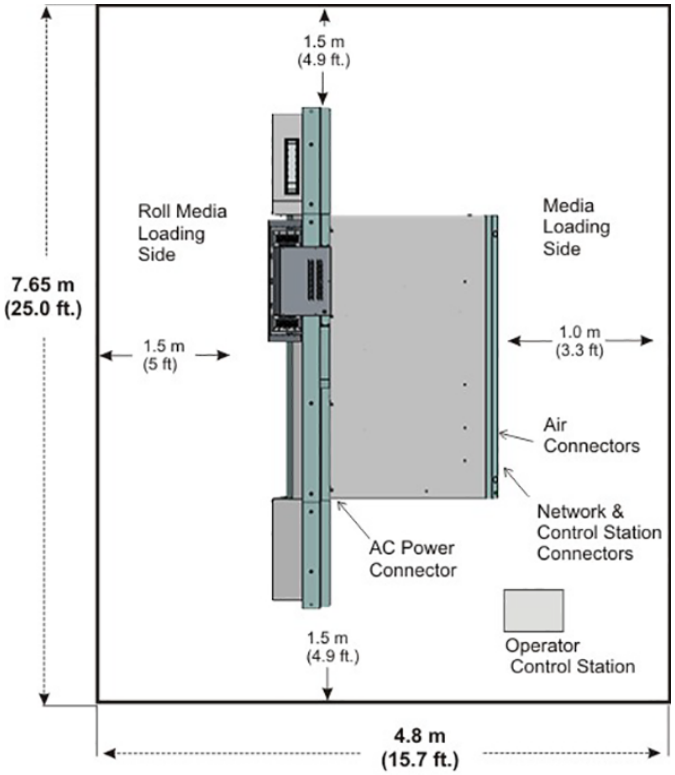
Introduction

The minimum open space from all sides of the printer required for normal operation, maintenance and safety is shown in this document.

All printers must be installed directly on a rigid floor. For XT printers the precise alignment and level of the two joined tables will be compromised if the floor support is flexible. (Coated) Concrete is the recommended floor material. Carpeted or wood floors are not acceptable! Please contact your Canon representative in case of doubt.

If you require an illustration of the location of the printer and RMO feet, see the web site at *https://graphiplaza.cpp.canon/support/service-support/*

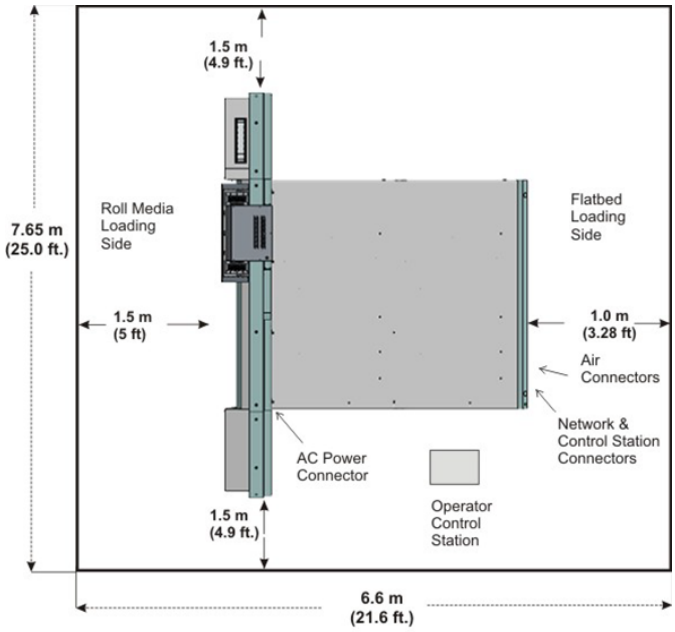
Operation space for the GT



Recommended Operating Space for Arizona 1300 Series GT Printers

NOTE
The area around the printer must be kept clear of obstructions.
Cables and compressed Air tubing must be managed to prevent tripping (use the supplied rubber cable protectors).

Operation space for the XT



Recommended Operating Space for Arizona 1300 Series XT Printers

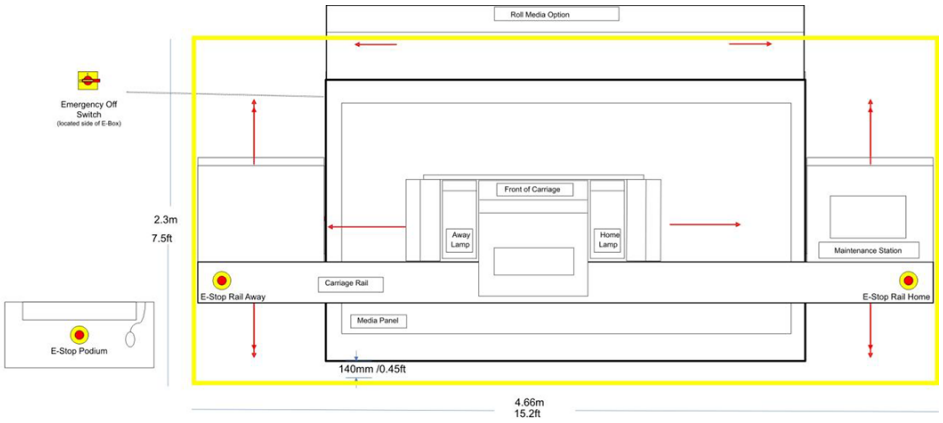
Safe work area

Introduction

These illustrations show areas of potential hazard to operators based on moving parts of the printer. You may want to mark the areas indicated by the yellow rectangle on the floor with tape or some other visible means of indicating that there is possible danger when the printer is operational.

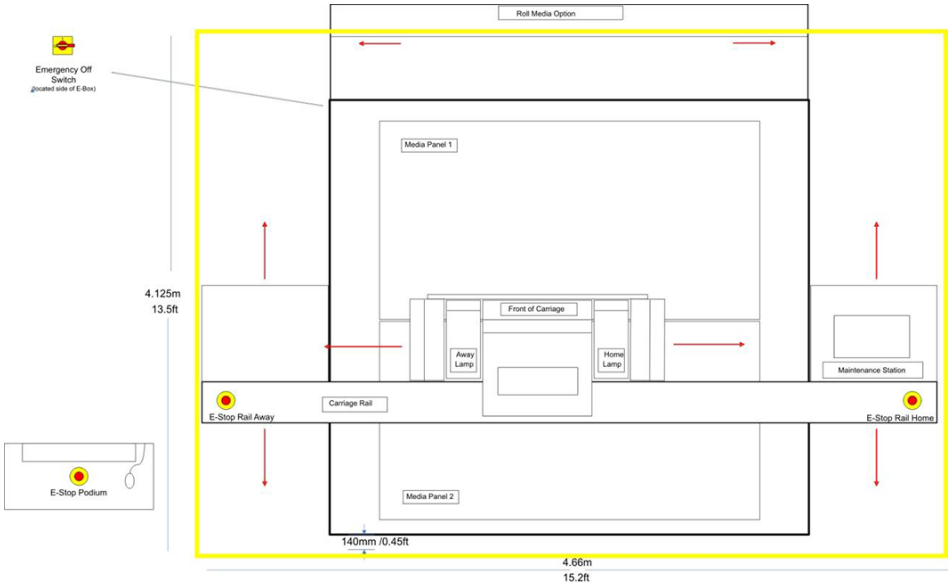
Safe work area for the GT

Recommended Safety Zone for Arizona 1300 Series GT Printers



Safe work area for the XT

Recommended Safety Zone for Arizona 1300 Series XT Printers



Electrical Requirements

Introduction

It is the customer's responsibility to hire a qualified electrician to provide electrical service to the printer. The printer comes equipped with a panel mount inlet connectors and mating plugs. No power cable is supplied for the printer. The customer must supply power cables wired to accept the supplied plugs as per the specifications below.

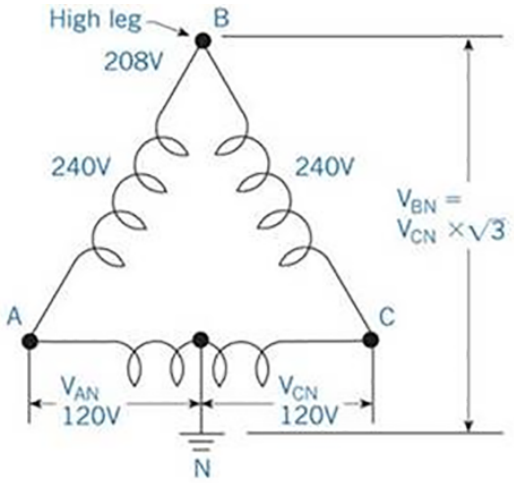
Circuit Requirements

Description	Specification
Rated voltage	200 - 240VAC 50/60Hz Single Phase *
Rated current	16A
Building fuse value	16A (EU) / 20A (North America only) *

There are two Inlets that supply power to the printer. Inlet 1 supplies table Vacuum and the printer electronics. Inlet 2 supplies the LED UV system.

*** North American power configurations**:

- For buildings equipped with a 120/240 volt single phase service the equipment will require two 20 amp 240 volt, single phase circuits.
- For buildings equipped with a 120/208 volt 3-phase service the equipment will require two 20 amp, 208 volt circuits, single phase circuits.
- For buildings equipped with a 120/240 volt 3-phase service with a high (stinger) leg the printer must not be connected to the high leg. The two circuits need to be derived from the legs that read 120 volts to ground and 240 volts leg to leg.



The Product Safety Data Sheet contains specific information about the power consumption and is available on the corporate site: *https://downloads.cpp.canon*.

Wiring Specifications

The wire used for the power cord must conform to local electrical regulations.

- **North America**: Cordage must be 14AWG Mechanical Serviceability of Type SJT, and no longer than 4.5 meters (14.8 feet).

- **European Union**: Cordage must be 2.5mm^2 of type H05VV-F, or harmonized cable suitable for local requirements, and no longer than 4.5 meters (14.8 feet).
- **Common**: Wall Socket Outlet and Cable Mount Plug Connector must be of type IEC60309 (even when the printer connector is 60320) and must be installed near the printer and easily accessible. Assemble the supplied IEC 60320 connector plug (CAS code 12-464). Ensure that the supplied strain relief is used.

See Operation space requirements for location of the printer AC power connectors.

Table Vacuum Pumps

All Arizona 1300 Series printers ship from the factory with one of two different vacuum pumps. These pumps operate on different voltage ranges: low voltage 200-220Vac and high voltage 220-240Vac. Therefore the mains voltage at the installation site must be known so that when a printer or a replacement pump is ordered the correct pump can be specified. The pumps are supplied without casters and hose connection fitting.

Checking the Vacuum Pump Voltage

Prior to connecting the vacuum pump, the customer's supply voltage should be measured and checked against the vacuum pump's voltage certification plate. Keep in mind that a single measurement may not be indicative of the nominal voltage. Fluctuations do happen during the day. When in doubt, consult with the local utility or an electrician. As a guideline (but keep in mind that local deviations are common):

North America:

Many commercial buildings are serviced with 208 or 220V 60Hz. The low voltage pump will be best suited in that situation. Some sites will be connected to a residential network that provides 240V 60HZ, which would necessitate the high voltage pump

Rest of world:

There is increased alignment towards 230V 50Hz, which is best served with the high voltage pump. There are however still exceptions such as Japan, Hong Kong and other countries (low voltage)

IMPORTANT
If the voltages are out of range the vacuum pump must not be installed.

Part Description	Part Number	Voltage Range
F/S Vacuum Pump VT4.25 Low Voltage	3010116810	200-220Vac
F/S Vacuum Pump VT4.25 High Voltage	3010116809	220-240Vac

Stand-by Power Consumption

The power consumption of the Arizona printer in stand-by mode must be considered when you select a UPS to ensure that the printer always stays switched on during non-operation times.

All Arizona printers consume fewer than 2 Amps at rated voltage when idle (not printing)

All printers consume the full 16 Amps at rated voltage when the lamps and table vacuum are on.

NOTE
If you use a UPS there are two AC Inlets.
Inlet 1 supplies table Vacuum A, Table Vacuum B and the printer electronics. Inlet 2 supplies the LED UV system.
Use UPS for printer Inlet 1 to protect and ensure the mains supply to the printer logic.

Grounding

IMPORTANT
High Leakage Current – Earth Connection Essential for Safe Operation of Arizona Printers. The PE/Ground conductor must be 14 AWG or 2.5 mm^2 minimum for each Connection.

CAUTION
Important: If it is necessary to isolate the entire printer electronics, unplug the power cord from the wall socket.
THE SOCKET OUTLET MUST BE INSTALLED NEAR THE PRINTER AND BE EASILY ACCESSIBLE.

Connector Locks

Connector locks ensure that the AC power connector cannot be accidentally pulled out.

Environmental requirements

Introduction

This section gives an overview of the environmental requirements for the print room and the ink storage conditions.

Operating Conditions

The Arizona 1300 printers will operate at an optimum level in a controlled environment. The area where the printer is installed must be (reasonably) free of dust and other airborne particles (e.g. office environments). The printer should not be placed in an area that is carpeted or where routers, sanders or trimmers are used!

IMPORTANT
All inkjet printers are prone to image quality problems when there is airborne dust or other debris that can interfere with the jetting of ink from the printheads.

Special warning for sites with alarm systems

If scheduled AMS is enabled that means that a hot carriage will move, even during non-working hours.

For a PIR sensor which is commonly used for an alarm system, the carriage is just a "hot moving object".

So it is possible and it even happened before that a scheduled AMS can trip the alarm.

Print room conditions

Description	Specification
Temperature	18 - 30 ^{0}C (64 - 86 ^{0}F) (x)
Humidity	30 - 70% (no condensation) Recommended: 40 - 60%
Altitude	Altitude: 2,750 m (9,020 feet) maximum, however some components specify a limit of 2,000 m (6,560 feet).
Ventilation	A room ventilation of $\geq$ 1200 m³/hour is needed. For heat evacuation extra ventilation may be necessary.

(*) Depending on the print room size an air conditioning system may be necessary in order to maintain the ambient temperature. In addition, maintaining a 4°C temperature band within the 18°C to 30°C window is recommended to ensure consistent printing results from print to print throughout the day

Under continuous operation the printer can produce:
- GT (max): 7,510 BTU per hour (2200 watts)
- XT (max): 13,480 BTU per hour (3950 watts)

CAUTION
Not meeting the required minimum Ventilation and Operating Space specifications may lead to irritating or hazardous concentrations of Volatile Organic Compounds at high printing volumes. Our employees / technicians are not allowed to work in a customer environment which is not meeting the required air ventilation to safeguard the health of our employees. When indications are not acceptable, Canon may choose not give service support on-site!

Also you can refer to the Product Safety Data Sheet (PSDS) for the ventilation specification. The PSDS for your Arizona 1300 printer is available from the corporate Canon website. For the latest MSDS and PSDS, visit: *https://downloads.cpp.canon*

Avoid Solvent Fumes

The co-existence of solvent printers with Arizona 1300 UV ink printers has resulted in printhead reliability issues. In particular, we have noticed a direct correlation between permanent nozzle outs and the presence of solvent fumes near the printer.

We have encountered nozzle outs in environments where UV ink-based printers are positioned in the same room as solvent ink-based printers. We strongly recommend that UV ink-based printers are kept in a separate room from solvent printers.

Shock and Vibration

The Arizona 1300 printers function normally in a typical print shop environment. Excessive vibrations generated from heavy machinery such as shears or punches may affect print quality and are not considered part of an acceptable operating environment. It may be necessary to consult a third party to isolate the source of such vibrations.

Canon recommends that the printer is installed on a stiff, well-supported floor (a concrete floor is ideal). A poorly supported floor can transmit vibration and shock to the printer from other equipment or sources. In some cases, it may be necessary to consult a third party to recommend building improvements to reduce the effects of shock and vibration.

NOTE
The Arizona 1300 XT printers must be installed on a solid, non-flexible floor. Concrete or a surface which is equally solid is required.

Storage

These specifications apply to all crated printers.

- Storage Temperature: 0ºC to +35ºC (32ºF to +95ºF)
- Relative humidity: 10% to 90%

IMPORTANT
Crated printer should not be stored longer than 1 month in an environment with a relative humidity greater than 70%.

Room Lighting Specification

UV inks are cured (hardened) when exposed to Ultraviolet (UV) light. Ink curing depends on the light's wavelength, intensity, and the duration of exposure.

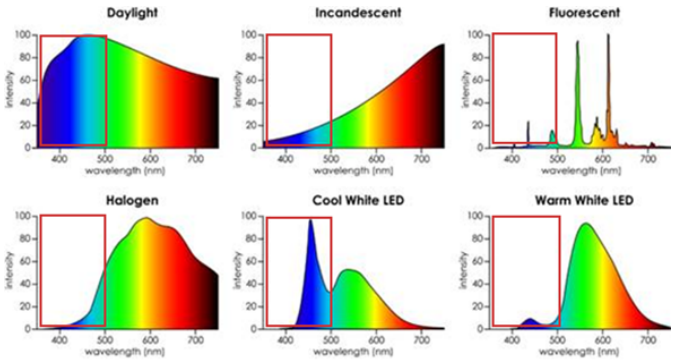
Printheads can be damaged if ink cures on the nozzle plate. For this reason you must limit your printer's exposure to lighting with UV light (wavelengths between 100-500um). Limiting UV lighting in the area where printhead maintenance occurs is very important as this is the location where the printheads have longest exposure to room lighting.

Possible sources of UV light are:

- Windows and skylights exposed to sunlight.
- Cool white LED, for example from smart phones, flashlight and LED room lighting!

The figures below show wavelengths of common light types.

The red rectangles indicate the wavelengths from 100 to 500, which are most likely to cure ink.



All light sources emit varying amounts of UV (ultraviolet) light. Fluorescent light bulbs used in the home and office do not produce a hazardous amount of ultraviolet light but extended exposure can still cause UV ink to cure. Fluorescent bulbs emit a small amount of UV, but the UV produced by them is far less than the amount produced by natural daylight and therefore is the preferred choice in the printer environment.

Sites with low ceilings (=<3m) are highly recommended to use warm white LED lighting over cool white LED".

NOTE
Avoid the use of bright LED light sources around your printer.

Use only incandescent (flash) lights to check underneath the carriage and inspect printheads.

Make sure that the printer is not exposed to direct sunlight; block any incoming UV light by applying appropriate UV shielding (like UV-blocking window foils).

IMPORTANT
Not adhering to the recommendations can influence the required maintenance frequency and/or the lifetime of the printhead.

Customer Equipment Requirements

Electrical

The customer is responsible for providing a properly rated power cord (see electrical requirements) and a grounded wall outlet.

Compressed Air Requirement

Compressed air is needed for the operation of the following subsystems:
- Media registration pins.
- Automatic printhead maintenance station

Peak flow: 113 l/min (4 cfm) at 690 kPa (100 psi) – dry air (provided by coalescing filter)

The customer is responsible for providing the following dedicated compressed air support hardware near the printer:
- Easy access to the Shutoff valve
- Air Regulator (set to 100psi)
- Coalescing filter (filters out water and oil droplets – membrane dryer not needed)
- Connection to facility air supply via 12mm or 0,5" OD female plug on the printer side. No air tubing is provided with the printer. OD = outside diameter.

Spectrophotometer for Color Management

We recommend that you use a spectrophotometer to create ICC profiles, or to re-calibrate existing ones, with ONYX software.

For best results we recommend a spectrophotometer that has a polarizing filter.

Customer Network Requirements

General Customer information

Customer please be aware of the following security topics :

1. The service technician has Admin rights on the printer.
2. When remote access is granted by the customer, this remote access is with Admin rights on the printer system.
3. Job data stored on the printer can be accessed by anyone with physical access to the system. You as customer should delete jobs on the printer if the print job has to be kept secret during access by service.
4. The system may be compromised by anyone with physical access to the system.
5. The hard-disk in the Arizona printer is not encrypted.
6. An unencrypted system backup can be created by the service technician.
7. It is possible to browse the Internet from the printer if it is directly connected to the internet with all risks involved.
   It is advised to prevent this.
8. It is advised to separate the printers from the rest of the network in order to contain potential issues.
9. On Remote Service has ISO/IEC 27001 certification and assures best in class security and privacy standards;
   the Canon organization has data confidentiality guidelines on limited accessibility of any relevant customer data when needed for analyzing purposes.
10. Job names stored on the printer can be sent to Canon Headquarters via On Remote Service. Make sure there is no personal or sensitive data in the job names.

IT connectivity

- Network connection: Ethernet 100 or 1000 Mbits/sec (preferred) and RJ45.
- Network protocol type : TCP/IP V4 or TCP/IP V6.
- Printer and RIP workstation network connection: on the customer network (highly recommended).



NOTE
Never use 10 Mbit network connections.
A printer not connected to the customer network is a non-standard installation with impact on the following controller features which request access to the customer network:

- On Remote Service (with associated Proxy settings if required).
- Automatic download of software updates.

Network Security

The customer is fully responsible for the security of its network.

For any proposed security measures, via external boxes, these are administered by the customer.

Network security actions are perceived from the following viewpoints

1. **Arizona printer directly connected to customer network**.
   If extra security is needed, we advise to install an extra firewall box of the preferred supplier of the customer.
   This box is then to be configured with all relevant ports for ORS and normal printing opened towards the Arizona printer.
2. **Arizona printer connected to customer network via the Onyx RIP**.
   If extra security is needed, we advise :

- To install an extra firewall box of the preferred supplier of the customer. This box is then to be configured with all relevant ports for ORS and normal printing opened towards the Onyx RIP.
  OR
- via a manual action to secure the Windows firewall on the customer Onyx RIP correctly so relevant protocols for ORS and Onyx can pass the Windows firewall

Whichever of the 2 options is chosen, this requires the installation of a software proxy component on the Onyx RIP, to allow the traversal of ORS traffic towards the Internet from the Arizona printer. This is a manual procedure, and the software proxy is comprised by the industry standard Squid proxy software (*http://www.squid-cache.org/*).

Supported interfaces

- Support for a proxy server.
- Connection to external RIP: via port 9100
- Web user interface via HTTP: via port 8080
- HTTP for On Remote Service (ORS): via port 80

TCP ports used

Incoming connections:
- TCP port 9100 (TCP RAW printing)
- TCP port 80 (HTTP for On Remote Service)
- TCP port 8080 (HTTP for Web User interface)

Outgoing connections:
- TCP port 443 (HTTPS for On Remote Services)

URL white list for Firewall/Proxy outbound connection (for On Remote Service)

See : *On Remote Service Connectivity Information* on page 47 for the overview.

Host Computer (RIP hardware)

It is the customer's responsibility to procure and configure computer hardware which, at the minimum, meets the software's basic computational and data handling needs. Please refer to the Products section of the ONYX web site for the suggested hardware and operating system requirements for the most current workflow software *http://www.onyxgfx.com/* and login with your myonyx account.

For ONYX related questions, when part of your contract, you can also contact:**sales@onyxgfx.com**

ONYX Workflow Host Requirements

ONYX® Thrive™ 19 or higher (421 configuration or greater recommended)

Chapter 5
Operator Training

Product training

Arizona printers require a properly trained operator. Canon trains the operator in the use of the Arizona printer's hardware and provides a general orientation for using the software at installation.

Onyx application

Operators of the Arizona printers should be experienced in the operation of ONYX Thrive ®. For any operator unfamiliar with its operation, ONYX training is required.

On-site or off-site training courses are available; contact ONYX Graphics Corporation for more information:

Visit *http://www.onyxgfx.com/*

or

Call 1-800-828-0723 (in North America).

Outside of North America, contact your local Canon organization or Canon representative for training support.

Chapter 6
Product Safety Data Sheet

The Product Safety Data Sheet is available from the corporate Canon website.

For the latest MSDS and PSDS, visit: *https://downloads.cpp.canon*.

Chapter 7
Site Preparation checklists

Site Preparation Pre-Installation Checklist + Sign off

Introduction

This is the Arizona 1300 hardware requirements checklist.

NOTE
To fill out the checklist digitally, open the PDF in Adobe Acrobat Reader and select the tool: Fill & Sign. Adobe Acrobat Reader can be downloaded free of charge.

Requirements

(Tick check box if compliant, if not when is the compliance achieved)

Requirement:		When / Action
Shock and Vibration • Keep isolated from shears, punch presses, and guillotines	☐	
Cleanliness • Area should be reasonably clear of dust and other airborne particles Should not be installed in areas shared by routing, sanding, trimming or cutting equipment	☐	
Space Required for un-crating: • 6.5m x 5m (21.3ft x 16.4ft)	☐	
Flooring/ Floor covering • Concrete floor is ideal: minimum requirement is a stiff, well-supported floor • Vinyl tile or floor sealed with paint or other floor coating materials • **Do not** install on carpet.	☐	
Operating space • Minimum space GT: 7,65 x 4,8 m / 25 x 15.7 Ft • Minimum space XT: 8 x 6,6 m / 26.3 x 21.6 Ft	☐	
Ventilation and Room Volume • A room ventilation of ≥ 1200 m³/hour.	☐	
Correct lighting conditions See : *Room Lighting Specification* on page 35	☐	
Room Temperature • Not lower than: 18ºC (64ºF) • Not higher than: 30ºC (86ºF) • Temperature Range: Maintained within a 4ºC (7ºF) band	☐	
Humidity • Relative humidity: 30% to 70% (Non-condensing) • On Dielectric media >40% (preferable 55%)	☐	
Altitude • Altitude: 2,750 m (9,020 feet) maximum.	☐	

Requirement:		When / Action
Grounded Electrical Circuit • Requires an insulated equipment grounding conductor running with the supply conductors • Electrical connection complies to above Product Safety Data Sheet • 2x Power cord complying to printer and local standards to be supplied by customer For location of power, data and compressed air connections at the printer please refer to figures in Operating Space requirements	☐	
Facility air • Connection to facility air supply via 12mm or 0,5" OD female plug on the printer side. No air tubing is provided with the printer. OD = outside diameter. • Peak flow: 113 l/min (4 cfm) at 690 kPa (100 psi) – dry air (provided via coalescing filter)	☐	
Select the correct low or high voltage vacuum pump	200-220 Vac ☐ 220-240 Vac ☐	
Proximity to Solvent Printers • We strongly recommend that solvent -based printers be kept in a separate room from UV ink printers.	☐	
Onyx RIP • Requirement: ONYX® Thrive™ 19 or higher • In case of use of Arizona Xpert, then a recent version of Chrome must be installed on the RIP station	☐	
Web Browser(s) for the User Interface • Internet Explorer 11 or higher • Edge • Firefox • Chrome NOTE Always use a recent version.	☐	
On Remote Service (ISO/IEC 27001 certified) • Standard installation is ORS enabled The communication connections used are 100% secure, all communicated data being encrypted according to the HTTPS industry standard or via a secured and dedicated VPN tunnel – the global standard for sensitive transactions in corporate information systems. • For detailed information about ORS please refer to the ORS product sheet	☐	preferred hostname. Customer Contact person ORS connection

Customers initials	

Site Preparation confirmation

Please add in below list actions to be taken prior to printer installation.	
1	
2	
3	
4	
5	
Name Field Service Engineer:	
Signature:	
Date:	

Confirmation of completion action list

I declare that the actions as described in this document are completed at or before receiving and start of the installation of the Arizona 1300. I declare and agree to the site conditions for optimal functioning of the printer and environmental aspects.

Customer Name:	
Function:	
Company/organization:	
Signature:	
Date :	

On Remote Service Connectivity Information

Before you begin

A Network Administrator must be present during the installation of the printing solution.

You can set an external location as the default location. The default location is used when you do not select a specific external location for a job.

Remote service allowed

Remote service allowed ?	☐ Yes	☐ No
Remote assistance allowed ?	☐ Yes	☐ No
Remote software update allowed ?	☐ Yes	☐ No
Service organization ID (SOID)	SOID	
	Verification code	

Network services

DHCP	☐ Yes (Skip *1 below)		☐ No : fill *1 in with IT admin	
DHS	☐ Available		☐ Not available	
*1	Hostname		IP address	
	Subnet mask		Gateway	
	DNS server		DNS suffix	
	Primary WINS server		Secondary WINS server	

Proxy settings

☐ Direct internet connection		
☐ Proxy using IP (or hostname) and port number. (please fill in 1).		
☐ Proxy using IP (or hostname) and port number but also needs authorization. (please fill in 1 and 2).		
1 Proxy server	Proxy server IP or name	
	Port number	
2 Proxy authentication	User name	
	Password	
	Domain name	

(If not filled in have it available during installation)

Remote service URL's used

Firewall/proxy required URL white list information for these outbound connections :

required URL's

URL	Description	IP address	Port
remoteservices.cpp.canon	Remote service data connection	193.138.15.53	443
remoteservices.cpp.canon	Functional Logging VPN Data Channel	193.138.15.102	443
firmware.cpp.canon	Firmware Distribution Network		80
*.teamviewer.com	TeamViewer infrastructure		80* / 443

* only required for network availability check.

Canon

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canon.com

Canon U.S.A. Inc.
usa.canon.com

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canon.ca

Canon Europe Ltd.
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