DOMINO

EN

Cx-Series User Guide

Cx150i

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DOMINO

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PREFACE

This document, Domino Part No. EPT095155, is the official authority for the installation, operation, maintenance and recycling of the product that is the subject of this document.

This document should be used to reinforce and complement any training program available with the product. It is not designed to replace any such training program.

This product manual is the source document for all translated versions. It is the "Original Instructions".

Domino will not accept any liability for damage to equipment or injury to personnel caused by unauthorized or improper use of the equipment described in this document.

Only engineers trained by Domino should carry out repairs, adjustments or in any other way alter settings or machine parts. Domino original parts shall always be used to ensure quality and performance.

Users of this equipment are warned that it is essential to read, understand and act according to the information given in Part 1: Health and Safety. This part of the document also specifies a set of symbols which are used elsewhere in the document to convey special warnings or requirements. It is, therefore, essential that users are also familiar with these symbols and act accordingly.

It is important to:

- Keep this document during the lifetime of the equipment.
- Pass this document on to any subsequent holder or user of the equipment.

WARNING: UV INKS

WARNING	**Hazardous Chemicals. Risk of eye and skin damage.**
	When near the printer, wear protective equipment such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet for further information about:** • **The hazards associated with the chemicals supplied.** • **Suitable PPE.** Contact with UV inks can cause **permanent** eye or skin damage.

WARNING: UV LIGHT

WARNING	**UV Light is emitted from this product. Risk of eye and skin damage.**
	When near the printer, wear personal protective equipment (PPE) such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet (SDS) for further information about suitable Personal Protective Equipment (PPE).** **In particular, use goggles:** • **which are designed specifically for use in the workplace.** • **which are opaque to UV light with a wavelength of 395nm.** For example, goggles which comply with EN ISO 16321-1. This product emits UV radiation which is risk group 3. Exposure to UV Light can cause **permanent eye** or skin damage.

WARNING: INK WASTE

WARNING	**Industrial Chemical. Risk of personal injury.**
	Treat and dispose of the ink and wash waste as chemical hazardous waste. **Do not mix different types of ink or wash in the waste disposal stream.** **Keep the waste disposal streams for UV curing, oil, aqueous and solvent based fluids entirely separate from each other.** If different types of industrial chemical are mixed, a harmful chemical reaction can occur. Mixing different types of industrial chemical can harm waste disposal, recycling, and recovery efforts.

INTENDED USE

The Cx150i is an industrial piezo inkjet printer intended for use in a professional / industrial environment. It is used for coding and marking onto a variety of products made from non-porous or porous substrates. It uses either ultra-violet inks or oil based inks.

For specific details, please contact your local support office.

Do not use it for any other purpose, unless authorised by Domino. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

This equipment is not suitable for use in explosive atmospheres (ATEX)

FORESEEABLE MISUSE

This equipment should only be used as indicated by Domino.

- Do not use as a germicidal or disinfection device
- Do not use for processing or treatment of food
- Do not use as a sunlamp
- Do not use for curing cosmetics
- Do not use for medical purposes

Personnel should not:

- Deliberately defeat any interlocks/security
- Reach over or around guarding
- Ride on conveyor
- Ignore any no-go areas.
- Do not use the front handle to carry the printer.

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PART 1 HEALTH AND SAFETY

INTRODUCTION

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Directions for safe working practices vary according to the environment. Read the Safety Data Sheets (SDS) for further information.

The following are broad principles so that necessary precautions can be taken:

Safety training

Domino recommends safety training for all personnel who use UV inks and UV curing systems.

This should include:

- The dangers and effects of UV inks.
- Safety Data Sheets (SDS)
- Personal Protective Equipment (PPE). Gloves, goggles, clothing.
- First Aid procedures and treatments.
- First Aid equipment available to personnel.
- The dangers and effects of UV light.

Safety of UV Inks

Safety precautionary measures

- Read the relevant Safety Data Sheet (SDS) before storing, handling, transporting, using or disposing of the ink.
- In the event of accidental release of chemicals to the environment, refer to the SDS.
- In the event of contact with the ink or inhaling ink vapours, refer to the SDS for first aid measures.

When handling the UV inks, there are some precautionary measures that must be taken to ensure full safety of all operators in the vicinity of the printer.

Exposure routes of personnel handling inks can be:

- **Dermal**
  If the skin comes into direct contact with the ink, it can lead to mild or severe irritation depending on the area affected and exposure time, and in the long term to the sensitisation to any acrylic materials. To avoid and minimise the risk, appropriate PPE (gloves and protective clothing) should be used. In case of the contact with the skin wash it off promptly.
  For any additional information refer to the SDS.

- **Inhalation**
  The extent of the exposure via inhalation is dependent on the size of the room in which printing is conducted, ventilation in the room, proximity to the printer and temperature of the room. The printing process should be always done in well ventilated room (with needs for good ventilation being even greater if temperature in the room is high).
- **Ingestion**
  Do not consume any food or drink near the printer.

To avoid exposure to the inks, always cure printed ink and do not handle the uncured print samples.
This also applies to UV inks which have been printed onto porous substrates. These must also be cured.

Safe handling of UV inks is paramount to maintain both print quality and the well-being of those working with them.

All unused inks, pouches, contaminated materials and other waste should be disposed of in accordance with local legislation.

Consult the SDS for proper ink disposal considerations.

Installation Safety

- Conduct a risk assessment before starting the installation of this equipment.
- Always wear appropriate Personal Protective Equipment (PPE) as identified during your risk assessment.
- This must include steel toe capped footwear.
- Ensure that you lift the product appropriately using both hands. When securing the unit to the stand or other mounting seek assistance to avoid strain or injury.
- The UV lamp is in excess of the Exempt Risk Group. The viewer related risk depends on how the product is installed and used.
- If a product becomes stationary in front of the lamp, then then excessive heating of the product may occur.
  Locate the lamp where this is unlikely to happen.
  Domino recommends reducing the maximum lamp on time.
- The equipment is for indoor use only.
- Do not operate the equipment outdoors or in an environment outside of the specified operating range.
- Do not install or operate the equipment in an environment where it can be exposed to water.
- Only use the equipment in a well ventilated area.
- Make sure that all cables are secured away from moving production line components.
- Make sure that all cables are secured and do not cause a trip hazard.

- Make sure that the power supply outlet is off before you connect the power supply to the inkbase or UV Lamp.
- Make sure that the power supply outlet is off before you connect or disconnect any wiring connections.

Operation Safety

- If there are signs of ink leaking from the printer or from an ink pouch, then switch off and do not use the equipment.
- If there are signs of physical damage,then switch off and do not use the equipment.
- If any part of the guarding is damaged then switch off and do not use the equipment.
- Make sure that UV inks are correctly cured. See Check the Curing of the UV Ink on page 38.

Maintenance Safety

- Do not change the electrical mains lead (power supply cable) to an inadequately rated electrical mains lead.
- Only use the correct Domino supplied electrical mains lead (power supply cable).
- It is possible to control the equipment remotely.
  If operated in this manner, shut down and disconnect the electrical power supply before doing any cleaning or maintenance on the equipment.
- Do not open any enclosed components. They contain no user-serviceable parts.

Disposal

Dispose of the following in accordance with the Safety Data Sheets (SDS) and local regulations.

- Ink
- Ink containers
- Solvents
- Waste cleaning materials.

WARNINGS, CAUTIONS AND NOTES

The warnings, cautions and notes used throughout this manual are highlighted by the use of international hazard symbols. The following definitions for all three of these notices are described below in the format they are presented in this document.

WARNING	**What is the hazard. Risk of personal injury.**
	A warning is used to alert the reader of hazards which may cause loss of life, physical injury or ill health.

CAUTION	Possible hazard. Risk of damage to equipment.
	A caution is used to alert the reader of possible hazards which may cause damage to equipment or the environment.

Note A note is used to alert the reader to important information.

Symbols

he following symbols can be used in this document to highlight specific warnings and cautions used in the procedure below the symbols.

Warning or Caution, read and comply with the warning or caution text to avoid physical injury, damage to equipment or damage to the environment.

Beware of optical radiation (UV).

Risk of fire by igniting flammable material.

Risk of coming into contact with electricity.

Hot surface

Beware of Electrostatic Discharge (ESD). Electrostatic precautions must be used:

- Switch off the machine.
- Wear a wristband connected to ground.
- Avoid wearing clothing that can build up electrostatic voltages.
- Use ESD protective bags to transport PCBs.
- Only place PCBs on a mat made from a material which will dissipate electrostatic voltages and which is connected to ground.

Eye protection must be worn.

Protective clothing must be worn. Use adequate protective gloves. Consult the relevant Safety Data Sheet (SDS).

Disconnect power before carrying out maintenance or repair.

Connect an earth terminal from the product to an appropriate ground source.

Read the manual before doing this procedure.

Print Head Warning Label

WARNING	**Hot Surface. Risk of injury.**
	Nozzle face can become hot during operation, do not touch the nozzle face.

CAUTION	Sensitive Parts. Risk of damage to equipment
	Do not touch the nozzle face as it can damage the coating.

The label below is on the print head. It warns the operator "Do **NOT** touch the nozzle face".

INKS AND FLUIDS INFORMATION

Domino supplies Safety Data Sheets (SDS) giving specific safety information for each of its inks. Safety Data Sheets can be found on the MSDS section of the Domino website.

When used correctly, printing inks do not cause problems. However, everybody using them should be familiar with the appropriate safety standards and be aware of the precautions that should be taken.

The following are general requirements:

- Proper standards of industrial practice relating to cleanliness and tidiness must be maintained.
- Inks and their containers must be stored and handled with care.
- Do not smoke or allow naked flames (or other sources of ignition) in the vicinity of any inks or solvents. The inks used in the Cx-Series printers are not flammable.
- All who come into contact with inks must be properly instructed in their use.
- Contact with the mouth must be avoided. Therefore eating, drinking or smoking, or any personal habits or actions which may transfer ink to the mouth, must be avoided.
- Contact with the eyes must be avoided. Suitable eye protection must always be worn whenever there is any risk of splashing or misting. If ink does get into the eyes, first aid treatment is to flood the affected eye for 15 minutes with saline solution, (or clean water if saline solution is not available), taking care not to allow the water to run into an unaffected eye. Medical aid must be obtained immediately.
- Some inks contain solvents which may injure the skin. Inks should be handled with care. Good working practice must always be employed and risk assessments carried out. Safety Data Sheets are available that give advice on personal protective equipment. Most gloves only offer limited and short term exposure protection and must be changed after any splashing and on a frequent basis. After exposure to ink, all possible traces must be washed off as soon as possible at the nearest washing facility.
- Some inks contain materials which vaporise easily and can be inhaled. Good ventilation is necessary.
- Any used cleaning materials, e.g. rags, paper wipes, are a potential fire hazard. They must be collected for safe disposal after use.

WARNING: UV Inks

WARNING	**Hazardous Chemicals. Risk of eye and skin damage.**
	When near the printer, wear protective equipment such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet for further information about:** • **The hazards associated with the chemicals supplied.** • **Suitable PPE.** Contact with UV inks can cause **permanent** eye or skin damage.

WARNING: UV Light

WARNING	**UV Light is emitted from this product. Risk of eye and skin damage.**
	When near the printer, wear personal protective equipment (PPE) such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet (SDS) for further information about suitable Personal Protective Equipment (PPE).** **In particular, use goggles:** • **which are designed specifically for use in the workplace.** • **which are opaque to UV light with a wavelength of 395nm.** For example, goggles which comply with EN ISO 16321-1. This product emits UV radiation which is risk group 3. Exposure to UV Light can cause **permanent eye** or skin damage.

WARNING: Ink Waste

WARNING	Industrial Chemical. Risk of personal injury.
	Treat and dispose of the ink and wash waste as chemical hazardous waste. **Do not mix different types of ink or wash in the waste disposal stream.** **Keep the waste disposal streams for UV curing, oil, aqueous and solvent based fluids entirely separate from each other.** If different types of industrial chemical are mixed, a harmful chemical reaction can occur. Mixing different types of industrial chemical can harm waste disposal, recycling, and recovery efforts.

Clothing

All personnel working on or near the production line or in the vicinity of a printer/coder must:

- Wear appropriate clothing such that it does not pose any risk of becoming trapped in any part of the machine (moving or stationary)
- Ensure loose jewelery is not worn as this poses a trap hazard.
- Ensure hair is contained so that it does not pose any risk of becoming trapped in any part of the machine (moving or stationary).
- Wear appropriate Personal Protective Equipment (PPE), This includes protective glasses, gloves and steel toe capped shoes. Gloves must be changed frequently even if they appear uncontaminated.
- Ensure that when working with printer fluids any exposed skin is covered with uncontaminated clothing. Do not continue to wear clothing that has been contaminated.

Storage

Printing inks must be stored in well-ventilated buildings, in areas set aside for the purpose and chosen for safety in case of fire. All fluids must be stored in accordance with local regulations.

Storage (UV Inks)

Domino UV inks have quick curing times and remarkable print quality.

However, it's crucial to handle the material with care to ensure not only the best printing results but also the safety of those working with it.

Protect from Sunlight and Fluorescent Light
Keep UV Ink Away from direct sunlight and fluorescent light and do not take the pouch out of the cardboard box until ready to use: UV ink should never be exposed to direct sunlight. Prolonged exposure can cause unwanted curing and affect the ink's performance.

Storage Conditions
Store UV Ink in a Cool, Dark Place as UV ink is sensitive not only to light but temperature too. It can start premature curing and become more viscous or even gel under high temperatures. This could affect print quality or even block the printhead. Ideally, ink should be kept below 30^{O}C otherwise the shelf life will be reduced. If temperature control is challenging, store the ink away from running machines to prevent heating.

Always keep the ink pouch in the original cardboard packaging until ready to place into the printer.

Fire Risk

Observe all warnings given on the machine and the following safety instructions.

For an electrical fire, do not use water.

Fire risk is a most important consideration where printing inks are stored and used. The degree of fire hazard will vary considerably from one type of ink or wash to another. The inks used in the Cx-Series printers are not flammable.

When there is a particular hazard the appropriate information is given on the SDS.

If there is a fire, there is a likelihood that dangerous fumes will arise from printing inks. For this reason ink must be stored where it can be reached quickly by the fire fighting service, and where it will not spread beyond the store.

Spillages and Disposal

Spillages must be cleaned up as soon as possible with the appropriate solvent materials and with regard to the safety of personnel. Care must be taken to prevent spillages or residue from cleaning up entering drains or sewage systems.

Inks and associated fluids are materials which conduct electricity. Therefore, power to the printer must be switched off while spillages inside the printer cabinet are being cleaned up.

Printing inks and associated fluids must not be treated as ordinary waste. They must be disposed of using approved methods according to local regulations.

WARNING: LIFTING THE INKBASE

WARNING	**Inkbase Handle is Not a Lift Point. Risk of Injury or Equipment Damage.**
	Do not use the inkbase handle to lift or hold the inkbase. The inkbase can become detached from the ink draw causing injury or equipment damage. The handle is for removing the ink draw only.

PERSONNEL

Only instructed personnel are allowed to work on the equipment. The manufacturer declines all responsibility for injury or damage if the instructions in this manual are not followed.

Personnel are responsible for:

- The equipment and the work area around the equipment
- All personnel in the vicinity of the equipment
- Making sure that all safety devices are fully operational.

Personnel must regard all electrical equipment as live. Before doing any maintenance or repair work, switch off and disconnect all electrical connections and compressed air to the printer and applicator.

ELECTRO-STATIC DISCHARGE

To avoid static discharge from production line equipment, the equipment and everything on it must be grounded correctly. While it is not Domino's responsibility to maintain the customer's equipment, the customer must be aware of the importance of grounding. At the time of installation of the printer, the Domino (or Domino distributor) technician should ensure that the line the printer is installed on is appropriately grounded. This means that all metallic items within 12 inches (300mm) of the print head location must be securely grounded. This should be checked with respect to the print head chassis ground using an Ohm Meter, DVM or another suitable device. It is essential that grounding is checked periodically and that if the printer is relocated to a different production line, then the new production line is properly grounded. Additional static dissipating devices, such as static brushes on the line, etc. are recommended.

PRODUCT/BATTERY END OF LIFE

WARNING	**Flammable material. Risk of fire or explosion.**
	Do not dispose of the battery in a fire, hot oven, by mechanically crushing or cutting. Obey local waste regulations when disposing of batteries.
	Do not store or leave the battery in high or low extremes of temperature.
	Do not store or leave the battery in a location that is subject to low air pressure at high altitudes.

CAUTION	Hazardous Material. Risk of damage to equipment and environment.
	The battery is not removable. If the battery needs replacement, replace the PCB that the battery is installed on. Obey local waste regulations when disposing of the battery and PCB.

Recycling information in accordance with the WEEE and Battery Directives

Product Mark

Battery Mark

European Union Only

The product/battery is marked with one of the above recycling symbols. It indicates that at the end of life the product/battery, you should dispose of it separately at an appropriate collection point and not place it in the normal domestic waste stream.

USA STATE OF CALIFORNIA BATTERY STATEMENT

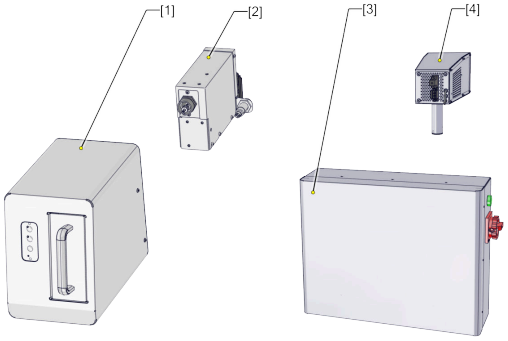
Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate

PART 2 SYSTEM DESCRIPTION

DESCRIPTION

The Domino Cx-Series is a range of industrial Piezo Ink Jet printers intended for printing fixed and variable data on products on manufacturing production lines. For specific details, contact your local support office.

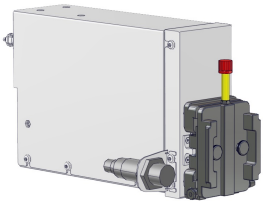
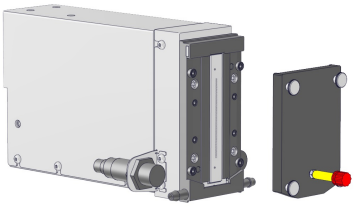


Each Cx-Series may consist of:

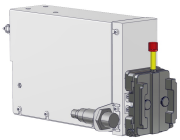
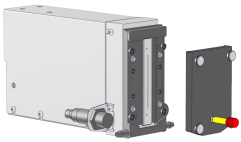
[1]		Cx1-Inkbase	An Inkbase containing the printer's controller, ink system and ink pouch.	Cx150i Inkbase on page 24
[2]		Cx1-PH 32	32.5 mm Print Head. Connected to a base unit with flexible cable(s) and pipe(s).	Cx150i Print Heads on page 22
	(not shown)	Cx1-PH 65	65 mm print head	
	(not shown)		Power supply unit	
[3]	(Optional)	UV150 Base Unitt	Contains the control electronics	
[4]	(Optional)	UV curing lamp	UV Lamp Assembly	

The Cx-Series printers are the latest in a high resolution ink jet case coders, capable of printing multiple lines of text, graphics, various barcodes, box counts and time/date functions, all from its stand alone unit.
Items [4] (UV curing lamp) and [3] UV base unit comprise the UV150 UV ink curing station.

CX150I PRINT HEADS

SMALL HEAD: Model name: Cx1-PH 32 A and Cx1-PH 32 B	LARGE HEAD: Model name: Cx1-PH 65 A and Cx1-PH 65 B
	

Cx150i Print Head Specification

Physical		
		
	Small Head **Cx1-PH 32 A** **Cx1-PH 32 B**	**Large Head** **Cx1-PH 65 A** **Cx1-PH 65 B**
Standard Finish:	Brushed stainless steel	Brushed stainless steel
Dimensions (width x depth x height):	61.0 mm x 212.6 mm x 136.4 mm	63.2 mm x 223.8 mm x 136.4 mm
Mounting holes:	Each side: 3 x M5. Pitch as shown above	Each side: 3 x M5. Pitch as shown above
	Top side: 3 x M5. Pitch as shown above	Top side: 3 x M5. Pitch as shown above

Physical		
Weight	1.92 kg	2.05 kg
Maximum height of print:	32.5 mm	65 mm
Vertical Resolution:	300 dpi	150 dpi
Horizontal Resolution:	600 dpi	600 dpi
Lowest print height:	23.3 mm	32.7 mm

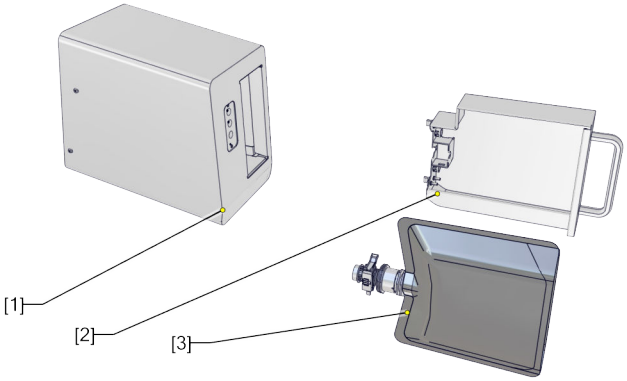
Environment	
Operating temperature range:	5°C to 40°C (41°F to 104°F)
Humidity:	10 - 90% RH (Non-Condensing 10 °C Increase per hour)
Storage temperature:	-20°C to 60°C (-4°F to 140°F)

Attainable Print Speed	
Horizontal Resolution (dpi)	**Speed (m/min)**
60	350
75	280
100	210
150	140
200	100
250	85
300	70
450	47**

Attainable Print Speed	
600	35

Note ** 45 m/min for the large head.

CX150I INKBASE



[1] Inkbase

[2] Ink Drawer

[3] Ink Pouch

Cx150i Inkbase Specification

Physical	
Heads (max.)	1
Print Groups (max.)	1
Internal Ink Capacity	Pouch: 500 ml Internal Tank: 54.3 ml
Encoder Inputs	1
I/O	3 I/O connectors
Standard Finish:	Brushed stainless steel

Physical	
Dimensions (width x depth x height): (Not including screws, power button, latch, connector cover, bracket)	167.0 mm x 276.1 mm x 230.5 mm (6.57" x 10.87" x 9.07")
Weight:	7.3 kg
Ink Capacity:	Pouch 500 ml Internal tank 54.3 ml
IP Rating:	IP4X
Electrical Input to PSU (rated):	100 to 240 VAC, 50 to 60 Hz. Current 2 A
Output of PSU	24 VDC Current 7 A

Switches and LEDs	
Power Switch	
Start/Stop switch	
Purge switch	
Power LED	3 colour
Start/Stop LED	3 colour
Consumable Status LED:	3 colour

Environment	
Location:	Indoor
Operating Temperature:	5 °C to 40 °C (41 °F to 104 °F)
Storage Temperature:	-20 °C to 60 °C (-4 °F to 140 °F
Humidity:	10 to 90 %RH (non-condensing). Maximum 10 °C temperature change per hour.
Pollution Degree	(2)
Altitude:	2000 metres max.

Cx150i Inkbase Connections

Icon	Number	Description	Notes
	1	I/O 1 Includes Product Detect	D-Sub, 15-Way, Female
	2	Powered Ethernet TouchPanel Connection	IX connector. 1.25 Amps (Total for both connectors)
	3	Powered Ethernet DCI Connection	
	4	Encoder Input	D-Sub, 9-Way, Female Encoder Connector Layout
	5	Power Input	Connection from PSU.
	6	Network Connection For Web UI for PC	RJ45 Ethernet
	7	Network Connection	RJ45 Ethernet
	8	• Data Transfer • TouchPanel Connection	USB, Type-A
	9	• Data Transfer • TouchPanel Connection	USB, Type-A
	10	I/O 2	D-Sub, 15-Way, Female

	11	I/O 3	D-Sub, 15-Way, Female

See Connecting the Cx-Inkbase Controller.

DISPLAY SPECIFICATION

TouchPanel 7

Physical	
Display:	800 x 600 pixel, 7 inch, touch sensitive
Dimensions (width x depth x height):	182 mm x 37 mm x 121 mm
Weight:	0.8 kg
Mounting:	VESA 75mm x 75mm on rear face
IP Rating:	IP55 with optional cover

Environment	
Location:	Indoor
Operating Temperature:	5°C to 45°C (41°F to 113°F)
Storage Temperature:	-20°C to 60°C (-4°F to 140°F)
Humidity:	10 to 90%RH (non-condensing). 10°C per hour.
Pollution Degree	(2)
Altitude:	2000 metres max.

TouchPanel 8

Physical	
Display:	1024 x 600 pixel, 10.1 inch, touch sensitive
Dimensions (width x depth x height):	256 mm x 37 mm x 166 mm
Weight:	1.2 kg
Mounting:	VESA 75mm x 75mm on rear face
IP Rating:	IP55 with optional cover

Environment	
Location:	Indoor
Operating Temperature:	5°C to 45°C (41°F to 113°F)
Storage Temperature:	-20°C to 60°C (-4°F to 140°F)
Humidity:	10 to 90%RH (non-condensing). 10°C per hour.
Pollution Degree	(2)

Environment	
Altitude:	2000 metres max.

PART 3 OPERATION

OPERATION SAFETY

- If there are signs of ink leaking from the printer or from an ink pouch, then switch off and do not use the equipment.
- If there are signs of physical damage,then switch off and do not use the equipment.
- If any part of the guarding is damaged then switch off and do not use the equipment.
- Make sure that UV inks are correctly cured. See Check the Curing of the UV Ink on page 38.

LOG IN / LOG OUT

Log In

To log in:

1. Select the *Lock* icon in the bottom right corner of the user interface.
2. Select Log in.

- Either: Click *Log in* to proceed as a *User*.
- Or: Select a *Username* and enter the correct *Password*.

Note Passwords are case sensitive.

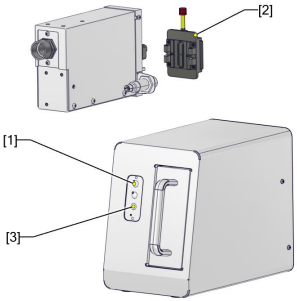
Log Out

To log out:

1. Select the *Lock/Padlock* icon in the bottom right corner of the user interface.
2. Select *Log out*.

START UP

WARNING	Hazardous Chemicals. Risk of eye and skin damage.
	When near the printer, wear protective equipment such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet for further information about:** • **The hazards associated with the chemicals supplied.** • **Suitable PPE.** Contact with UV inks can cause **permanent** eye or skin damage.



[1] On/Off switch

[2] Protective cover

[3] Purge button

To start up the printer:

1. To turn on, press and hold the On/Off [1] for two seconds, then release.
2. Remove the protective cover [2] from the print head (if fitted).

Prime/Purge the Print Head

It is good practice to purge the print heads at least once a day. It is recommended that this is carried out as soon as the printer has been powered up at the beginning of a shift to prevent degradation in the print quality.

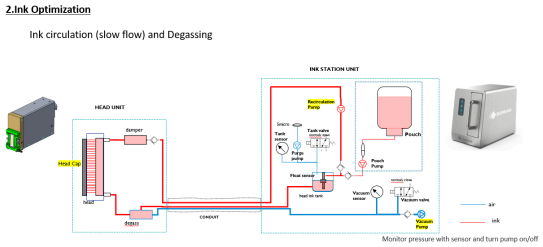
1. Press the purge button on the ink base.
2. The print head will expel a small amount of ink whilst making a vibrating sound. The expelled ink will be collected in the gutter below the print head.
3. The print head unit is now purged and ready to print.

If the print quality is poor, see Additional Cleaning on page 62.

Ink Optimisation

What

Ink optimising removes air bubbles from the ink (degassing).

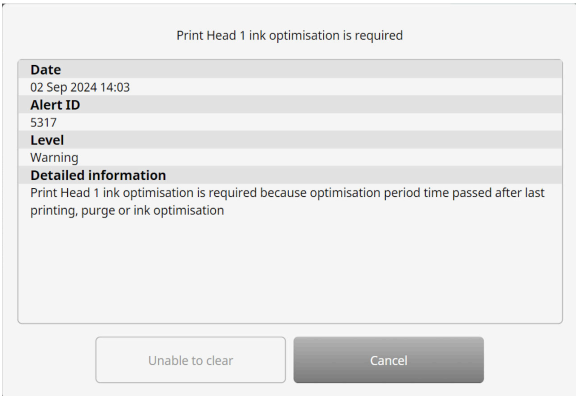


When

Conduct the ink optimisation routine when:

- The printer is first powered, or
- If the printer has been left not printing for a period of 3 hours or more.

Normally an amber alert will be present on the user interface screen indicating that an ink optimisation is required.



Prepare for printing

1. Clip the nozzle cap in place.

   There are two screws on the nozzle cap.
2. Tighten the two screws when:

   - the print head installation process is being run.

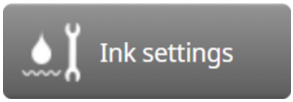
- the print head and printer are being moved and the meniscus may be disturbed.

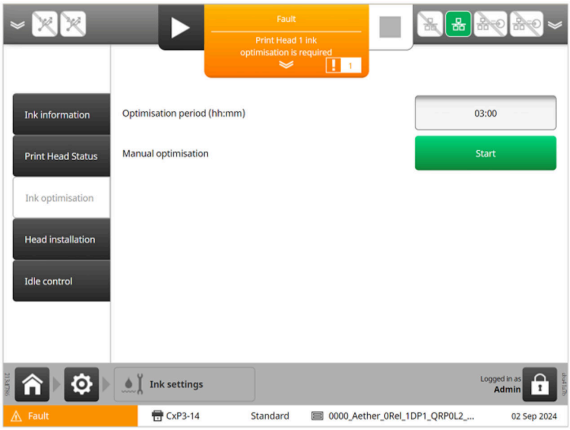
The image below shows nozzle cap clipped in placed, but screws not fastened.

Ink optimisation Procedure

Note — Place some absorbent material (for example, a wipe) under the nozzle face and shipping cap.
This will help collect any spilt ink.

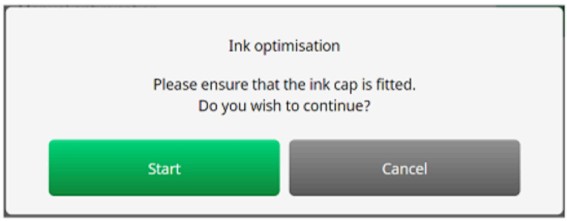
1. Ensure that the shipping cap is fitted in place.
2. Navigate to ink optimisation screen.
   Setup > *Ink settings* > *Ink optimisation*.





3. To run the ink optimisation routine, press *Manual Optimisation Start* button.

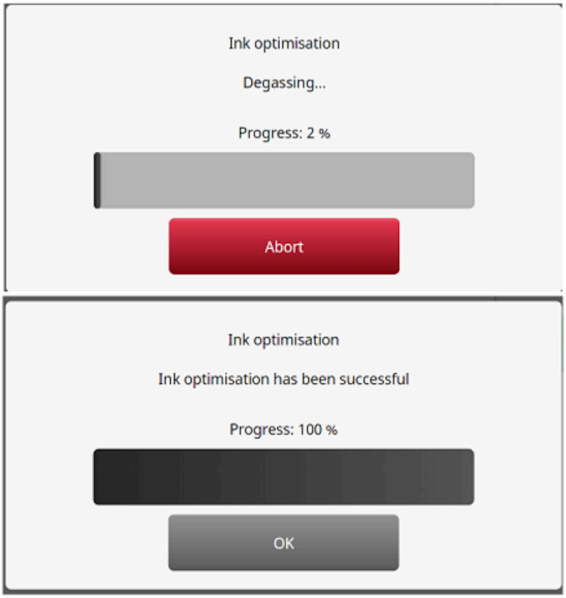
   A pop-up will appear to confirm that the nozzle cap (called "*ink cap*" in the UI) is fitted.
4. When ready to proceed, click the *Start* button.



The process takes about 2.5 minutes to complete.

Note — Do not navigate away from the ink optimisation screen until the process is 100% complete
This will stop the process and it must be started again.

A progress bar appears on the user interface indicates when the process is 100% complete.



5. Remove the nozzle cap.

Note Take care as ink wells in the bottom of the nozzle cap. Ink can drip when this is removed.

6. On the user interface, return to home.

Purge and Wipe

1. On the user interface, press *Home*.

2. Press the button on the printer base to purge the print head.

3. Use a dry Cx wipe and wipe the head.

Note	The small size of the drops on the small printhead mean that ink does not always run down the nozzle face effectively.

4. Take a test print
    - If print quality is ok, then the head is ready
    - If print quality is not ok, then repeat **Purge and Wipe** (above).

Wet Wipe

If after purging the print head two or three times the print quality remains poor, (For example, there are missing nozzles which have not recovered) then it may be advisable to attempt a wet wipe of the head.

To wet wipe the head:

1. Take a Cx wipe fold it as per **Purge and Wipe** above,
2. Add a little wash (UV9X).
3. Wipe this across the nozzles face.

Residue from the wash could still affect print quality, so:

4. Dry wipe the nozzle face as per **Purge and Wipe**, above.

Capping the Print Head

When the printer will not be used for a long period of time, such as overnight, clip the nozzle cap in place.

Capping the print head protects the nozzle face from two environmental concerns:

- Dust particles in the atmosphere that may lead to blocked nozzles.
- Exposure to UV light that may cause ink on the nozzle face to cure.

What the print head is uncapped:

1. Press the button on the printer base to purge the print head.
2. Using a dry Cx wipe (part number EPT064254) and wipe across the head.

   This is needed because the small size of the drops on the small printhead mean that ink does not always run down the nozzle face effectively.
3. Take a test print:

   - If print quality is ok, then the head is ready
   - If print quality is not ok, then repeat from 1. above.

If the printer has been left for more than 3 hours, or the amber alert “Ink optimisation is required” is present then you should follow the process outline in Prepare for printing on page 31.

If after purging the print head two or three times the print quality remains poor, e.g. there are missing nozzles that are not recovering, it may be advisable to attempt a wet wipe of the head.

To wet wipe the head:

1. Take a Cx wipe fold it as per item 6 above,
2. Add a little wash. (WE-UV9X)
3. Wipe this across the nozzles face.

You may then still need to dry wipe the nozzle face, as residue from the wash could still affect print quality.

Print Direction

Depending on which side of the conveyor each print head is mounted, will dictate the direction that the print surface is moving and could change from left to right, causing the message to be printed in reverse. If this happens, see Label Orientation and see Label Position.

Select a Label for Printing

Labels can only be selected for printing by a user who has a valid password.

To select a label for printing using the label manager:

1. Select *Home* > *Label manager*.
2. Open the *Label* folder.
3. Locate the label and select the send to print icon:

Start Printing

To start printing, select the *Start* icon at the top of the user interface.

During Operation

Ink Adhesion and Curing

Check the Curing of the UV Ink

To verify that a print made with UV-curing ink has been properly cured before handling it, you can perform a few non-invasive tests. These tests help determine if the ink has fully cured and adhered to the substrate without being tacky, smearing, or under-cured.

WARNING	**Hazardous Chemicals. Risk of eye and skin damage.**
	When near the printer, wear protective equipment such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet for further information about:** • **The hazards associated with the chemicals supplied.** • **Suitable PPE.** Contact with UV inks can cause **permanent** eye or skin damage.

The print sample is tested using a gloved hand.

First, perform a “thumb twist” test:

1. Place a gloved thumb on the surface of the ink and twist the thumb on the spot.
    - If there is no change on the surface, then there is full cure. The cured ink gets a cure score of "5".
    - If there is smudging of the surface of the ink, then the surface cure is not complete.
      Continue the testing:
2. Run a gloved finger over the surface of the ink with minimal pressure,
    - If this does not smudge the surface, then the ink gets a cure score of "4".
    - If this does smudge the surface, then:
3. Touch the surface of the ink with a gloved finger.
    - If this does not leave a mark, then the ink gets a cure score of “3”.
    - If this leaves a mark then the ink gets a cure score of “2”.
    - If the whole ink surface is disrupted, then the surface cure is very poor. The ink gets a cure score of “1”.

A summary of the scoring system is shown below:

Cure Score	Description	
5	fully cured	Acceptable
4	surface smudges with thumb twist	Marginal.
3	surface smudges running finger over ink	Not acceptable. Increase curing
2	finger imprint left when touching surface	Not acceptable. Increase curing.
1	surface completely uncured	Avoid touching the ink and handle with care.

A cure score of 5 or 4 is acceptable.

A cure score of 3 or less is not acceptable. To improve the cure score, increase the UV dosage:

- Reduce the line speed to increase the time in front of the lamp.
- Increase the intensity of the lamp. (Consult Domino)
- Install an additional lamp on the production line. (Consult Domino)

Some Other Tests for Curing

Here are some practical tests you can try:

1. Touch Test (Surface Tactility Test)
    - Gently tap the surface of the print with a clean, gloved finger or a lint-free cloth.
    - A properly cured print should feel dry and smooth, without any tackiness or smearing.
      If the ink feels sticky, it has not fully cured.
2. Scratch Test
    - Lightly run a sharp object (e.g., the edge of a plastic card) across an area of the print.
    - If the ink scratches off easily, it may indicate under-curing.
      Properly cured UV ink should resist scratching under normal pressure.
3. Rub Test
    - Gently rub a small part of the printed surface with a lint-free cloth or tissue.
    - There should be no ink transfer onto the cloth if the ink has fully cured.
      If you notice any ink coming off or smudging, the curing process may not be complete.
4. Tape Test (Adhesion Test)
    - Apply a piece of adhesive tape (like masking tape) firmly onto the printed area and then peel it off quickly.

- If the ink peels off with the tape, it indicates the ink is not properly cured or adhered to the substrate.
  Fully cured UV ink should not come off with the tape.

5. Solvent Test
   - Apply a small amount of isopropyl alcohol (IPA) or a similar solvent to a cotton swab and gently rub it on an inconspicuous area of the print.
   - Properly cured ink should not dissolve or smear under mild solvent exposure.
     If the ink dissolves or shows noticeable changes, it is under-cured.
6. Gloss/Appearance Check

Check for Adhesion of UV Ink (ERG only)

There is no field test for adhesion of the ink to the substrate.

Compatibility of ink and substrate should be confirmed when a production line is set up. This should include confirming the adhesion of the ink to the substrate. Consult Domino for advice.

Stop Printing

To stop printing, select the *Stop* icon at the top of the user interface.

SHUT DOWN

WARNING	Hazardous Chemicals. Risk of eye and skin damage.
	Wear protective equipment such as gloves and glasses when near the printer. Contact with chemicals can cause skin or eye damage. Refer to Safety Data Sheet.

To shut down the printer for more than 24 hours:

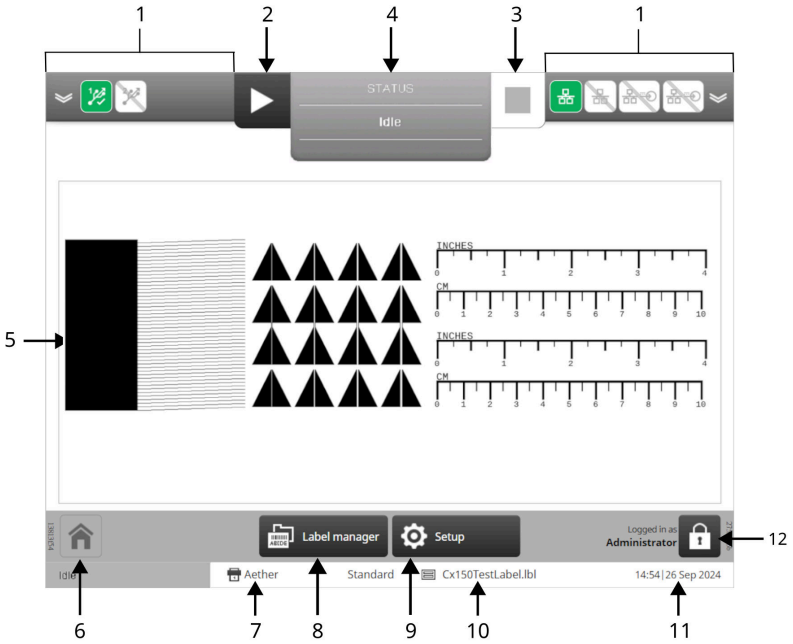
1. Turn the Base Unit off using the On/Off switch.
2. Replace print head nozzle cap.

USER INTERFACE

Note — The appearance of the screen shots of the user interface in this manual may show some differences from the appearance on the TouchPanel interface.

Home Screen

When starting the printer, the Home screen below is displayed.



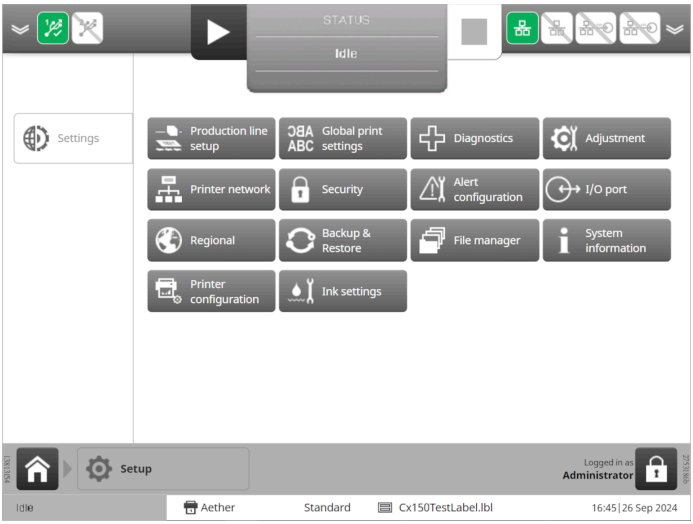
#	Setting Name	Explanation
1	Information Bar	Displays printer information. For Ink level information, see Ink Level Icons on page 48 and, see Overall Equipment Efficiency Screen on page 49.
2	Start	Start printing.
3	Stop	Stop printing.
4	Status Tab	Displays printer status and alerts. If more than one alert is present, the highest priority alert is displayed. If an alert is displayed, select the Status tab to show more information and to clear the alert.
5	Print Preview	Preview the label which has been sent to print.
6	Home	Press the Home Button at any time to return to this Home Screen.

#	Setting Name	Explanation
7	Printer Name	Displays the name of the printer that the user interface is connected to. The name can be changed by selecting *Home* > *Setup* > *Settings* > *System information* and changing the *Printer name* setting.
8	Label Manager	Open the label manager to preview labels and send them to print.
9	Setup	Open the Setup screen. See Setup Screen on page 44.
10	Label Name	Displays the name of the label that is loaded for printing.
11	Date / Time	Displays the current system date / time.
12	Lock	Log the user out from the printer. Lock the screen to prevent accidental changes.

Setup Screen

The Setup screen contains advanced printer settings, diagnostic tools and wizards. This screen is accessed by selecting *Setup* on the Home screen.

The illustration below shows the Setup screen.



Access is restricted according to user privileges as shown in the table below.

Note Asterisks (**) indicate limited access.

Link	Access Priviledge			
Production Line Setup	Administrator	Service		
Global Print Settings	Administrator	Service	Setting**	User**
Diagnostics	Administrator	Service	Setting**	User**
Adjustment	Administrator	Service	Setting**	
Alert Configuration	Administrator	Service		
Input/Output (I/O)	Administrator	Service		
Printer Network	Administrator	Service		
Security	Administrator	Service		
Regional	Administrator	Service	Setting**	User**
Software Backup, Restore and Upgrade	Administrator	Service	Setting**	
File Manager	Administrator	Service		
System Information	Administrator	Service	Setting**	User**
User Interface on page 42	Administrator	Service	Setting**	
Ink Settings	Administrator	Service	Setting**	User**
Printer Configuration	Administrator	Service	Setting**	User**

Printer Information Screens

The Information Screens display detailed live information about the printer's performance.

To open the Information Screens:

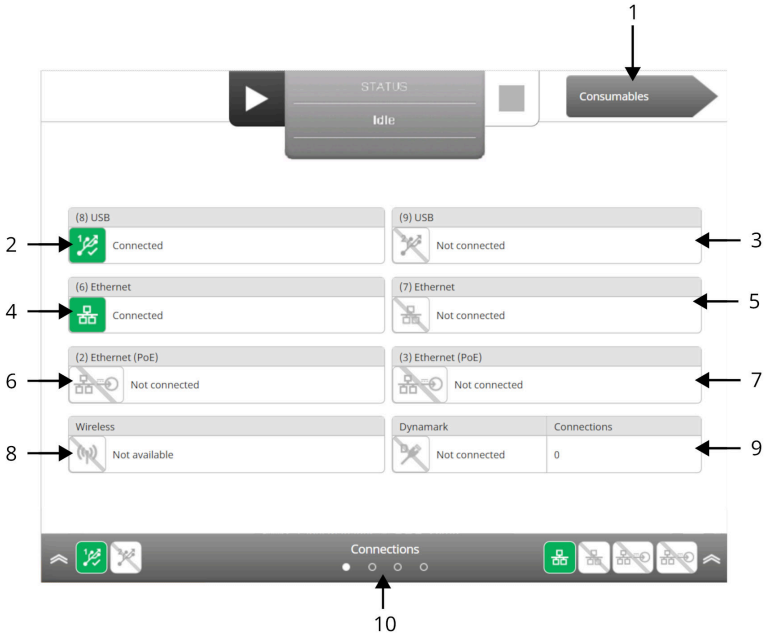
1. Press the icon on the Information Bar.
2. Swipe the screen left, or right to go to the next or previous screen.
3. Press the icon to close the Information Screen.

Note	The Information Bar on the Home Screen will display summarised information from the Information Screen which was closed.

The following Information Screens are available:

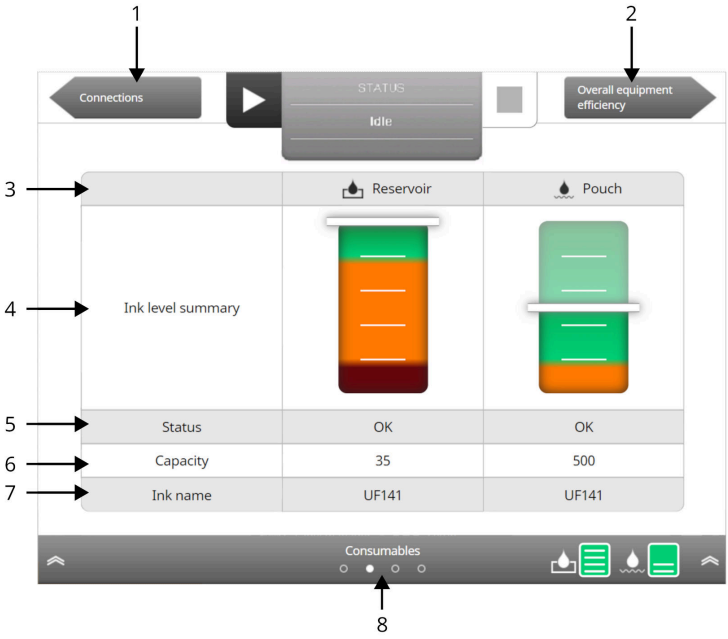
- Connections, Connections Screen on page 46.
- Consumable, Consumables Screen on page 47.
- Overall Equipment Efficiency, Overall Equipment Efficiency Screen on page 49.
- Live Status, Live Status Screen on page 51.

Connections Screen



#	Setting Name	Explanation
1	Next Screen	Proceed to the next screen.
2	(8) USB	Displays USB connection status for USB socket 8.
3	(9) USB	Displays USB connection status for USB socket 9.
4	(6) Ethernet	Displays Ethernet connection status for Ethernet socket 6.
5	(7) Ethernet	Displays Ethernet connection status for Ethernet socket 7.
6	(2) Ethernet (PoE)	Displays Ethernet connection status for Ethernet socket 2.
7	(3) Ethernet (PoE)	Displays Ethernet connection status for Ethernet socket 3.
8	Wireless	Displays wireless connection status.
9	Dynamark	Displays Dynamark connection status.
10	Information Bar	Shows status icons which will be displayed on the Home Screen when this screen is closed.

Consumables Screen



#	Setting Name	Explanation
1	Previous Screen	Go back to the previous screen.
2	Next Screen	Proceed to the next screen.
3	Ink Location	Identifies the location: Reservoir or Pouch.
4	Ink Level Summary	Graphical display of ink levels.
5	Status	
6	Capacity (ml)	Capacity of each ink container.
7	Ink name	Name of the ink.
8	Information Bar	Shows status icons which will be displayed on the Home Screen when this screen is closed.

Ink Level Icons

The ink level icons indicate how much ink is available in each ink container.

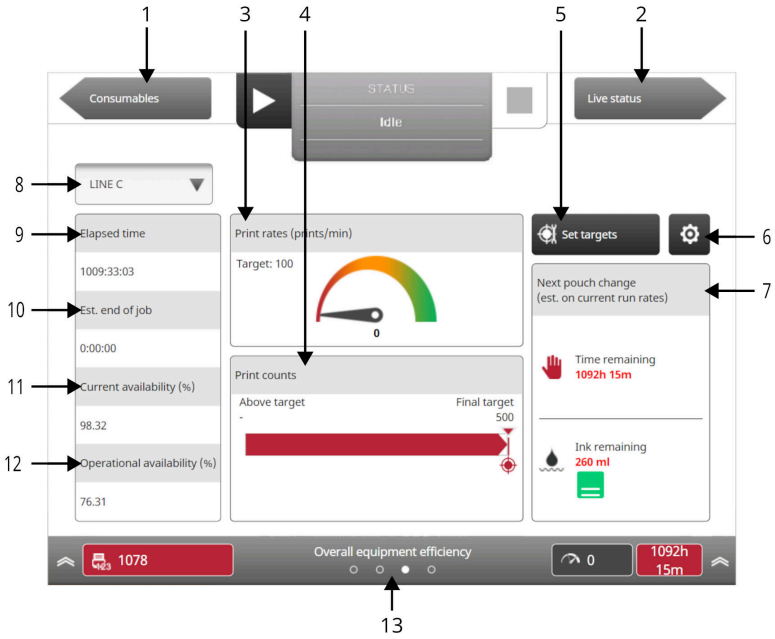
Icon	Fraction	Reservoir Volume (ml)	Pouch Volume (ml)
	4/4	Full to 35	Full to 500
	3/4	< 26.25	< 375
	2/4	< 17.5	< 250
	1/4	< 8.75	< 125
	0/4	0	0
	-	-	No ink pouch detected.

Overall Equipment Efficiency Screen

The overall equipment efficiency screen (OEE) enables the user to observe progress against user set targets.

Printer efficiency information is displayed on the screen including the elapsed time of the current print job, the estimated end of job time and the printer's operational availability. The screen also displays an estimate of when the next operator interaction is required and what the interaction will be.

The following illustration shows the OEE screen.



#	Setting Name	Explanation
1	Previous Screen	Go back to the Consumables screen.
2	Next Screen	Proceed to the Live status screen.
3	Print rates	Displays the current print rate compared to the print rate target.
4	Print counts	Displays the number of prints that have been made compared to the print count target.
5	Set targets	Set print count and print rate targets.
6	Reset mode	Define when the print count and print rate targets will be reset.
7	Next pouch change	Displays the estimated time until an ink pouch change is required.
8	Print group name	Displays the print group name.

#	Setting Name	Explanation
9	Elapsed time	Displays how much time has elapsed since the OEE targets were reset.
10	Est. end of job	Displays the estimated time until the end of the current print job.
11	Current availability (%)	Displays the current availability of the printer.
12	Operational availability (%)	Displays the printer's operational availability.
13	Information Bar	Shows status icons that will be displayed on the Home Screen when this screen is closed.

OEE Target Setup

To set the OEE targets:

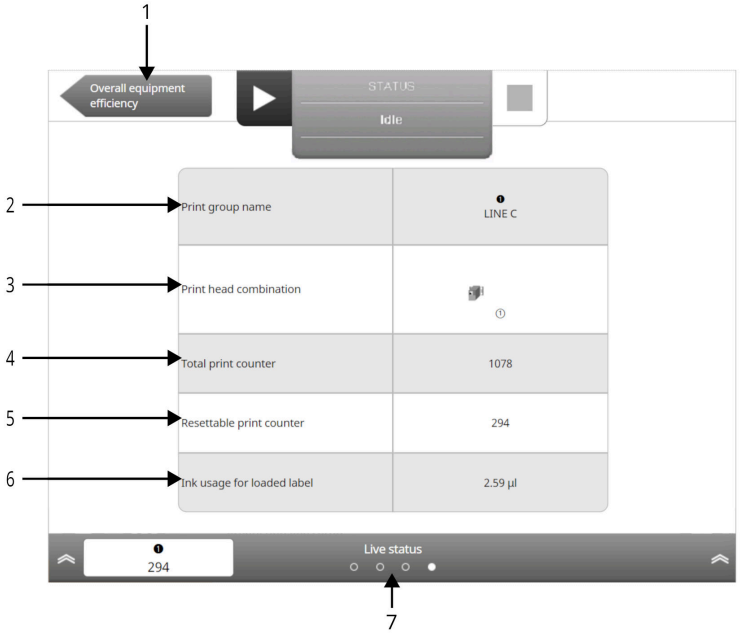
1. Press the icon on the Information Bar.
2. Swipe the screen to navigate to *Overall equipment efficiency*.
3. Select *Set targets*.
4. Enter the *Target run rate* (target print speed/number of prints per minute).
5. Enter the *Target total prints* (number of prints for the production run/print job).
6. Select *Close*.
7. Select the Settings icon:
8. Choose when the OEE targets are reset:

Setting Name	Explanation
Lifetime	Do not reset.
Power on	Reset when the controller is powered on.
Label change	Reset when a new label is loaded for printing.
Daily	Reset every day, at a user specified time.

9. Select *Close*.

Live Status Screen

The following illustration shows the Live Status screen.



#	Setting Name	Explanation
1	Previous Screen	Go back to the previous screen.
2	Print group name	Identifies the print group.
3	Print head combination	Shows which print head.
4	Total print counter	Displays how many prints have been made.
5	Resettable print counter	Displays how many prints have been made since resettable print count. Print count can be set at: *Home* > *Setup* > *Settings* > *Diagnostics* > *Statistics*
6	Ink usage for loaded label	Ink used per print
7	Information bar	Shows status icons which will be displayed on the Home Screen when this screen is closed.

PART 4 MAINTENANCE & TROUBLESHOOTING

WARNING: UV LIGHT

WARNING	**UV Light is emitted from this product. Risk of eye and skin damage.**
	When near the printer, wear personal protective equipment (PPE) such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet (SDS) for further information about suitable Personal Protective Equipment (PPE).** **In particular, use goggles:** • **which are designed specifically for use in the workplace.** • **which are opaque to UV light with a wavelength of 395nm.** For example, goggles which comply with EN ISO 16321-1. This product emits UV radiation which is risk group 3. Exposure to UV Light can cause **permanent eye** or skin damage.

WARNING: UV INKS

WARNING	**Hazardous Chemicals. Risk of eye and skin damage.**
	When near the printer, wear protective equipment such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet for further information about:** • **The hazards associated with the chemicals supplied.** • **Suitable PPE.** Contact with UV inks can cause **permanent** eye or skin damage.

WARNING: INK WASTE

WARNING	Industrial Chemical. Risk of personal injury.
	Treat and dispose of the ink and wash waste as chemical hazardous waste. **Do not mix different types of ink or wash in the waste disposal stream.** **Keep the waste disposal streams for UV curing, oil, aqueous and solvent based fluids entirely separate from each other.** If different types of industrial chemical are mixed, a harmful chemical reaction can occur. Mixing different types of industrial chemical can harm waste disposal, recycling, and recovery efforts.

MAINTENANCE SAFETY

- Do not change the electrical mains lead (power supply cable) to an inadequately rated electrical mains lead.
- Only use the correct Domino supplied electrical mains lead (power supply cable).
- It is possible to control the equipment remotely.
  If operated in this manner, shut down and disconnect the electrical power supply before doing any cleaning or maintenance on the equipment.
- Do not open any enclosed components. They contain no user-serviceable parts.

CONSUMABLES

Disposal of waste

WARNING	Industrial Chemical. Risk of personal injury.
	Treat and dispose of the ink and wash waste as chemical hazardous waste. **Do not mix different types of ink or wash in the waste disposal stream.** **Keep the waste disposal streams for UV curing, oil, aqueous and solvent based fluids entirely separate from each other.** If different types of industrial chemical are mixed, a harmful chemical reaction can occur. Mixing different types of industrial chemical can harm waste disposal, recycling, and recovery efforts.

Dispose of all waste materials in accordance with local environmental protection and waste disposal requirements.

This includes:

- Ink pouches
- ink
- cleaning materials

The Ink Pouch

Amber Alert

An amber alert on user interface will indicate that the ink pouch needs replacing.

Printing will continue for a time.

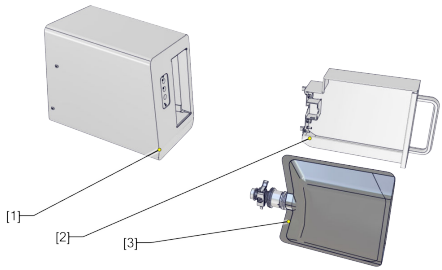
The user should change the pouch when convenient.

Red Alert

A red alert on the user interface indicates that the printer is out of ink and will stop at once.

Remove an Ink Pouch

WARNING	Hazardous Chemicals. Risk of eye and skin damage.
	When near the printer, wear protective equipment such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet for further information about:** • **The hazards associated with the chemicals supplied.** • **Suitable PPE.** Contact with UV inks can cause **permanent** eye or skin damage.

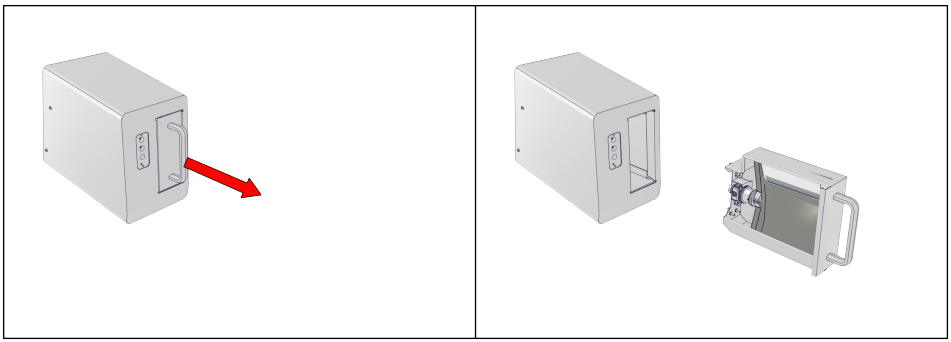


[1] Inkbase

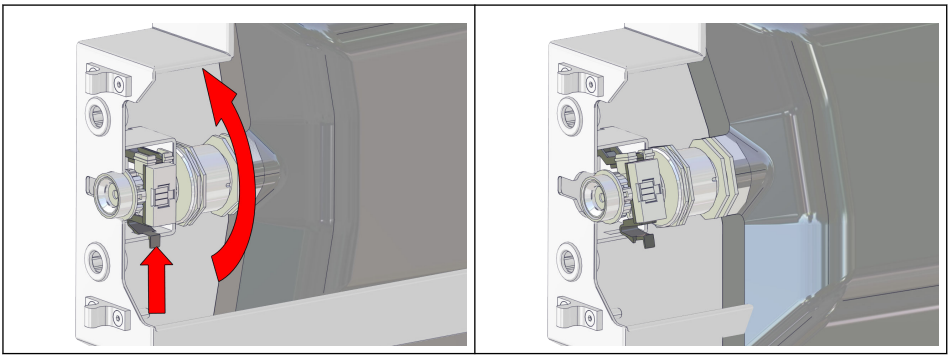
[2] Ink Drawer

[3] Ink Pouch.

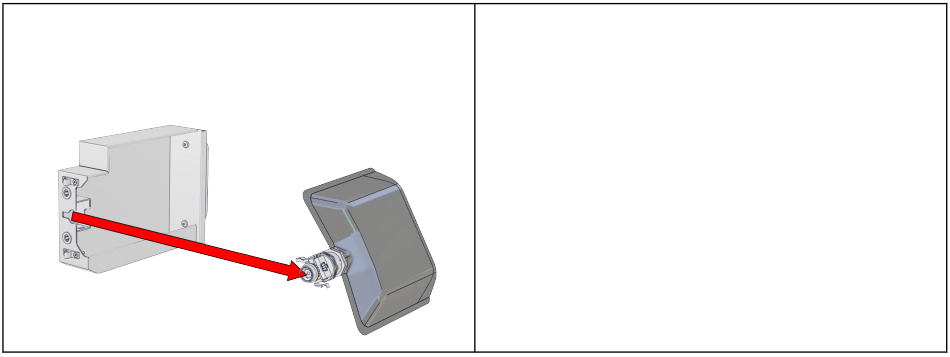
1. Remove the drawer [2] from the inkbase [1]:



2. Squeeze the clip and rotate the pouch as shown:

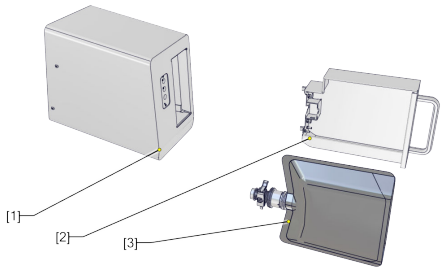


3. Remove the pouch from the drawer as shown:



Install an Ink Pouch

WARNING	Hazardous Chemicals. Risk of eye and skin damage.
	When near the printer, wear protective equipment such as nitrile gloves, goggles and overalls. **Refer to Safety Data Sheet for further information about:** • **The hazards associated with the chemicals supplied.** • **Suitable PPE.** Contact with UV inks can cause **permanent** eye or skin damage.

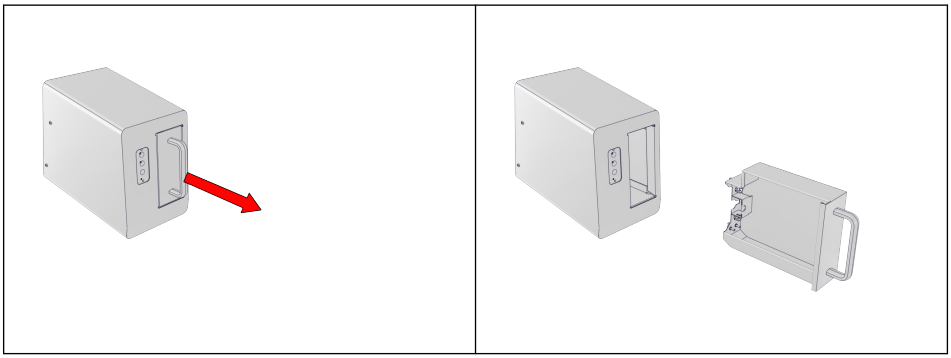


[1] Inkbase

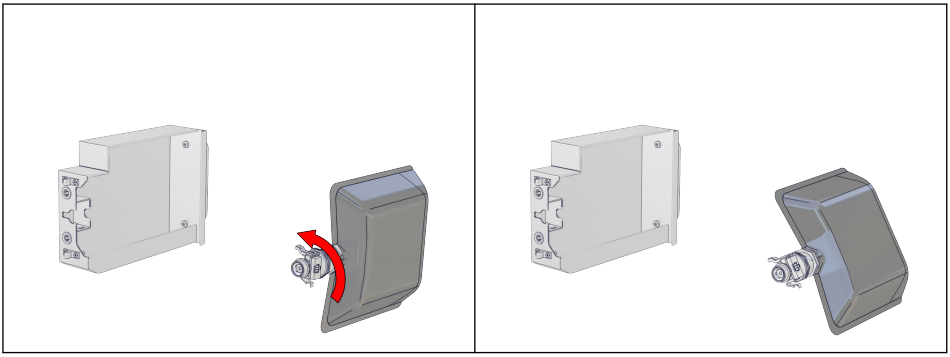
[2] Ink Drawer

[3] Ink Pouch.

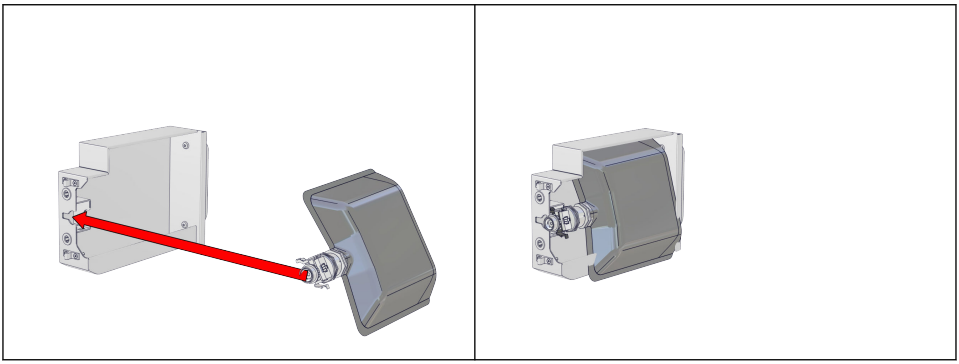
1. Ensure that the ink in the ink pouch is compatible with the inkbase. Check that the labels on the pouch and the inkbase match each other.
2. Remove the drawer [2] from the inkbase [1]:



3. Rotate the pouch [3] as shown:

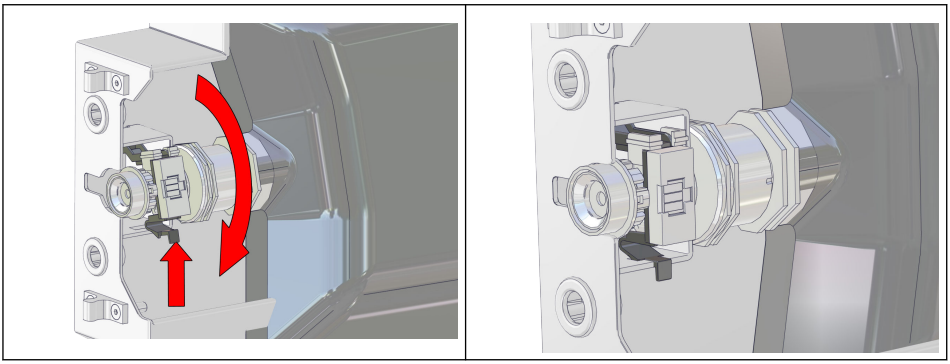


4. Slide the pouch into the drawer as shown:

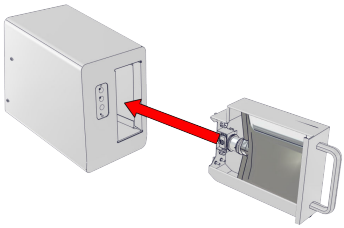


5. Squeeze the clip and rotate the pouch as shown.

   It will click into place.



6. Slide the ink drawer into the inkbase:

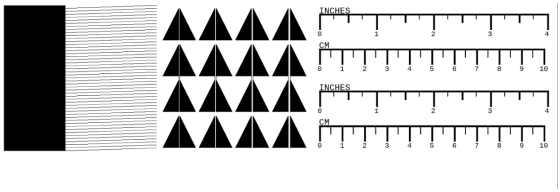


TEST PRINT

A test print can indicate a variety of printing faults.

Test Label

The following label is supplied as standard with the printer. It should be printed with a vertical resolution of 150 dpi (ie. one row of nozzles only).



Solid

The solid block gives an indication that the nozzles are all performing as expected.

- It can show when nozzles are skewed.
- It can show if the nozzles are "pairing". This happens when the rows of nozzles are not square to the direction of travel of the product and a drop from a nozzle in one row slipstreams behind a drop from a nozzle in the other row. This causes a loss of separation between the impact points of the two drops.

Ladder

Each step of the ladder corresponds to a particular nozzle.

- When a nozzle is missing it is clearly visible as a missing step in the ladder.

Bleed

Each triangle should be seen with a gap or space running down the centre.

The gaps size increases from Left to Right - from one stroke to four strokes.

- If the substrate absorbs too much ink, then the gaps disappear and bleed compensation may be required to produce good Barcodes.

Rules

When operating the printer without an encoder and using the internal encoder:

- When the actual line speed matches the internal encoder rate as set in QuickStep, the rulers will be printed at the correct length. Internal Encoder Input.

PURGE / PRIME

WARNING	**Hazardous Chemicals. Risk of eye and skin damage.**
	Wear protective equipment such as gloves and glasses when near the printer. Contact with chemicals can cause skin or eye damage. Refer to Safety Data Sheet.

CAUTION	Risk of damage to the print head.
	Do not touch the nozzle face of the print head. It has a protective non-wetting coating which can be damaged or removed if cleaned too much.

In the vast majority of cases the Cx head should only require a purge / prime.

1. If the unit is off, then turn it on.
2. Press the "*Purge*" button.
3. DO NOT wipe the nozzle face.
4. Allow the purged ink to drain down the coated, non-wetting surface of the nozzle face.
5. Allow the ink to flow to the ink catcher at the bottom of the nozzle face and to the waste ink bottle.

The ink should clear from the nozzle face within a few seconds.

ONLY in exceptional circumstance is wiping needed.

If wiping is needed, then closely follow the cleaning instructions. See Additional Cleaning on page 62

ADDITIONAL CLEANING

To maintain the optimal performance for the Cx Print Heads it is recommended that the correct cleaning procedure is carried out when:

- Starting/stopping
- After long inactivity
- Relocation of the printer.

During the standard operation in cases when the print quality drops purge/prime may be required.

Note ONLY use the following procedure if purge/prime has not restored print quality.

Always carry out a risk assessment. Carrying out these instructions may expose colleagues to hazards. Consider, if precautions like PPE are required. If in doubt, consult the safety data sheets.

CAUTION	Risk of damage to the print head
	DO NOT touch the nozzle face of the print head. It has a protective coating which can be damaged or removed if cleaned too much.

CAUTION	Risk of damage to the print head
	ONLY use the correct cleaning materials: • WE-UV9X for UV inks. • WJ-915-1 spray cleaner for oil based inks. • EPT064254 wipes.

CAUTION	Risk of damage to the print head
	DO NOT re-use wipes. • The Polyester wipes, EPT064254, should be used once only. • A fresh, clean wipe should be used each time. Always wipe in the direction the product travels across the nozzles, • left-to-right • right-to-left • NOT up and down.

Cleaning Materials

Spray cleaner

CAUTION	Risk of damage to the Print Head.
	Only use the correct cleaning materials for the print heads. **Use:** • **WE-UV9X for UV inks** • **WJ915-1 for oil based inks.** **DO NOT use C6000 cleaners.** They are for the C6000 ONLY.

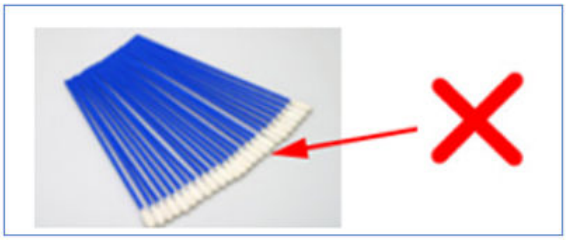
Wipes

CAUTION	Risk of damage to the Print Head.
	Only use the correct cleaning materials for the Cx150i: • The Polyester wipes, EPT064254 DO NOT re-use wipes: • Wipes should be used ONCE only. • A fresh, clean wipe should be used each time.

1. ONLY use head wipe EPT064254.

2. DO NOT use 78201 swabs.

Swabs are not suitable..



Test Print

1. Take a print sample.
2. Check that all nozzles are present.

If all the nozzles are not present

1. Repeat the purge and wipe procedure.
2. Repeat the test print procedure..

Note	It may take a two or more purges and wipes to get all the nozzles operating correctly.

If all the nozzles are present

1. Repeat the purge and wipe procedure.
2. Repeat the test print procedure..

Note	It may take a two or more purges and wipes to get all the nozzles operating correctly.

If nozzle issues persisted you may need to do a purge and **wet** wipe.

INSPECTION SHEDULE

The required inspection schedule will depend on the environment of the printer.

Determine a schedule suitable for the environment of the printer.

The following is a suggestion for a starting point.

Period	Item	Action
Annually	Fan filters	Inspect, clean, and replace as necessary
Annually	Ink filters	Inspect, clean, and replace as necessary
Annually	Pump	Inspect, clean, and replace as necessary

TROUBLESHOOTING

Statuses

Shown below are some printer statuses and their explanations. Printer statuses are displayed on the Status tab at the top of the QuickStep interface.

Status	Status Tab Colour	Explanation
Idle	Grey	The print group is not active.
Ready	Green	The print group is ready to print.

Alerts

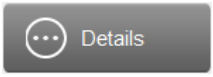
Alerts are displayed on the Status tab at the top of the QuickStep interface. When multiple alerts occur, only the highest alert will be displayed. If multiple alerts occur, the full list of alerts can be viewed by selecting the status tab.

There are two different alert levels:

Alert Level	Status Tab Colour	Explanation
Alarm	Red	There is a serious problem with the print group. Printing may stop until the alert is cleared.
Warning	Amber	There is a problem with the print group but printing will continue.

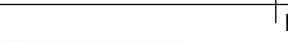
To clear an alert or view information about how to solve the alert:

1. Select the *Status* tab.
2. The icons illustrated below will become available to select.

Icon	Explanation
	Select the *Details* icon to display the following information: • Date and time the alert occurred. • Alert ID number. • Alert level. • Detailed information about the alert. • A clear button to acknowledge and clear the alert.

No.	Alert Level	Text Alert	
6294	Red	UV System offline	
6288	Red	UV lamp fault error	
6292	Red	UV System safety contactor error	
6293	Red	No Lamp timeout error	

Print Quality Faults

Problem	Example	Action
Print face too far away from the substrate		Lower the printhead until the print quality is acceptable
Print face touching the substrate		Raise the printhead until the print quality is acceptable
Print face at an angle		Ensure the rows of print nozzles are parallel with the leading edge of the substrate
Print nozzles parallel with the movement of the substrate		Ensure the print nozzles are perpendicular to the product movement
Print face nozzles have become blocked		Wipe print face or perform a micro purge. If the nozzles do not unblock replace the ink cartridge
Print becomes blurred over the top or bottom of the text		Print nozzles are perpendicular to product movement. However, the print face is not parallel to the substrate
The encoder is slipping or internal speed set on the printer does not match the actual line speed		Check the encoder installation or the speed settings on the printer
Print too faint		Increase horizontal or vertical dpi
Print too dark/too much ink on substrate or ink consumption too high		Decrease horizontal or vertical dpi
Stitch heads are not aligned correctly		Ensure brackets are robust and correctly set. Check the print delay in the install groups section of the software

To lower ink consumption, differing fonts can also be used. Courier font increases the consumption when compared to many True Type fonts.

Domino Cx150i User Guide

Domino Printing Sciences plc has a policy of continuous product improvement, the Company therefore reserves the right to modify the specification contained within this document without notice.

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