

Site Preparation Guide

NCR PX10/PX15 POS (7746)



BCC5-0000-5288
Issue C



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Preface

This is a contractual document. It contains important warnings and confers important legal rights and obligations. You are advised to read it carefully.

It is the responsibility of the customer to assure that all installation preparations are complete and in compliance with NCR specifications and requirements and all applicable national, state, or local codes, regulations, and laws.

Audience

This book is written for hardware installer/service personnel, system integrators, and field engineers.

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Safety Requirements

The NCR PX10/PX15 POS (7746) conforms to all applicable legal requirements. To view the compliance statements see [HSR POS Safety and Regulatory Statements](#) (BCC5-0000-5069) and [RealPOS Terminals Safety and Regulatory Information](#) (B005-0000-1589).



Caution: The on/off switch is a logic switch only. The AC line voltage primaries are live at all times when the power cord is connected. Therefore, disconnect the AC power cord before opening the unit to install features or service this terminal.

Lithium Battery Warning



Warning: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type as recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.



Attention: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Battery Disposal (Switzerland)

Refer to Annex 4.10 of SR814.013 for battery disposal.

IT Power System

This product is suitable for connection to an IT power system with a phase-to-phase voltage not exceeding 240 V.

Peripheral Usage

This terminal should only be used with peripheral devices that are certified by the appropriate safety agency for the country of installation (UL, CSA, TUV, VDE) or those which are recommended by NCR Corporation.



Warning: DO NOT connect or disconnect the transaction printer while the terminal is connected to AC power. This can result in system or printer damage.



Warning: DO NOT connect or disconnect any serial peripherals while the terminal is connected to AC power. This can result in system or printer damage.

Grounding Instructions

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician. Improper connection of the equipment-grounding conductor can result in a risk of electric shock.

The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor.

If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if you are in doubt as to whether the product is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the product's plug. **Repair or replace damaged or worn cords immediately.**

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Revision Record

Issue	Date	Remarks
A	June 2018	First Issue
B	May 2019	Release 2.0
C	Oct 2020	Release 2.1

NCR PX10/PX15 POS (7746) Site Preparation

This section provides the information necessary to prepare a site to NCR specifications prior to installing an NCR PX10/PX15 POS (7746). Prepare the site properly before installing the terminal because site preparation deficiencies may be difficult to detect and correct after installation.

This is a contractual document. It contains important warnings and confers important legal rights and obligations. You are advised to read it carefully.

It is the responsibility of the customer to ensure that all installation preparations are complete and in compliance with NCR specifications and requirements and all applicable national, state, or local codes, regulations, and laws.

Customer Responsibilities

Before installing the system, the customer must perform or provide the following:

- When required by NCR, provide the NCR Customer Services representative with appropriate drawings that indicate:
 - Equipment location
 - Site wiring (power and communications, paths and lengths)
 - Location of other equipment that may generate electrical noise, electromagnetic interference, or heat
- Make building alterations necessary to meet wiring and other site requirements
- Provide and install all communications cables, wall jacks, special connectors, and associated hardware
- Provide and install necessary power distribution boxes, conduits, grounds, lightning protection devices, and associated hardware
- Ensure all applicable codes, regulations, and laws (including, but not limited to, electrical, building, safety, and health) are met
- Provide and install auxiliary power or other equipment as required
- Provide storage or service areas as required
- Meet all system/unit environmental requirements
- Provide and install floor coverings and environment systems that limit or control static electricity build-up and discharge

In general, keep the NCR equipment area free from dust, smoke, lint, and other particles. Restrict smoking, eating, and drinking around the equipment. Avoid locating the equipment near other machines that generate ink, carbon, and paper dust particles.

LAN Communications

The NCR PX10/PX15 POS (7746) supports and prefers Ethernet 10/100/1000baseT Local Area Network (LAN) communication protocol. For Ethernet communications wiring specifications, refer to the [NCR Ethernet Communication Wiring Guide](#) (BST0-2118-82).

Environmental Requirements

The NCR PX10/PX15 POS (7746) features an innovative cooling scheme to support high-performance processors in a wide operating temperature range, but care must be taken to ensure system is installed with proper ventilation. Vents are located on the bottom of the terminal and the unit must be installed so airflow is not blocked around the base of the terminal.

Barometric Pressure

The terminal operates within the following barometric pressure conditions:

- Maximum operating altitude: 3,000 m (9,840 ft.)
- Operating range of pressure: 105 to 70 kPa (15.2 to 10.2 lb./in.)

Temperature and Humidity

The host is designed to operate in a CES Working Range 3, which is applicable to a broad spectrum of fully to partially conditioned office and commercial environments. This includes environments where—dependent upon local climatic conditions—heating, cooling and humidity control capability may not be provided at all or be inadequate to maintain desirable human comfort levels on a day-to-day basis.

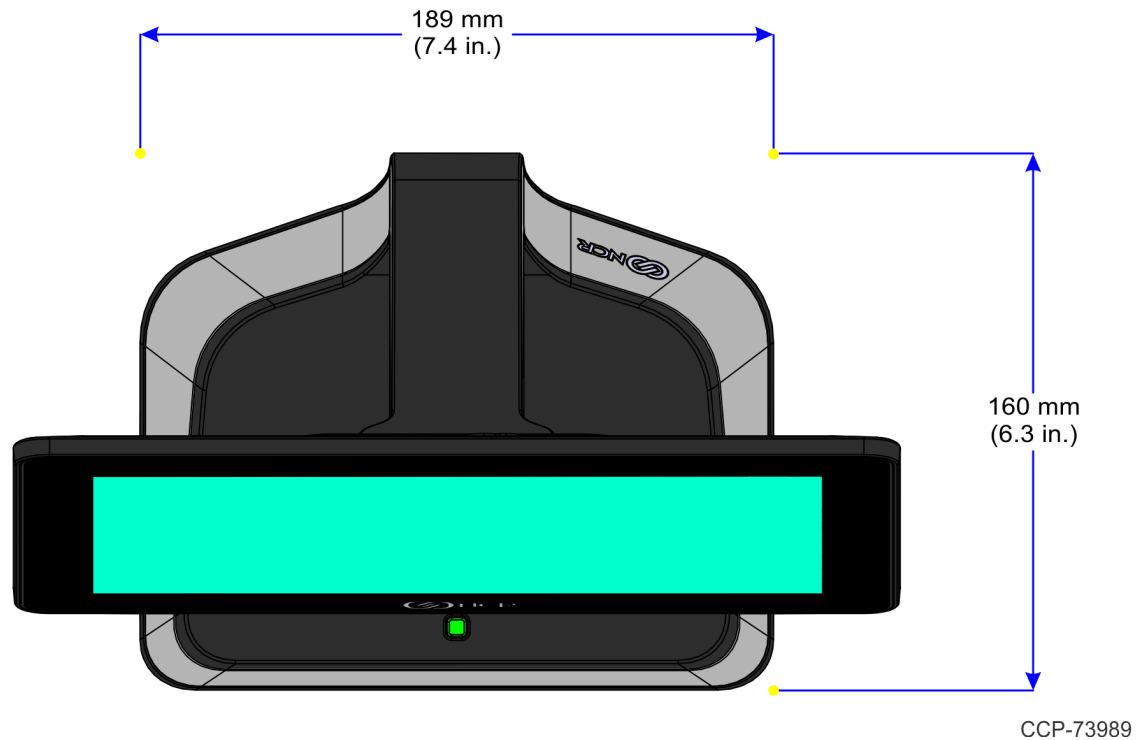
Ranges	Temperature	Relative Humidity	Dew Point
Operating Range	0°C to 40°C (32°F to 104°F)	10-90%	26°C (73.4°F)
Storage Range	-20°C to 60°C (-4°F to 140°F)	10-90%	N/A
Transit Range (units without battery)	-40°C to 60°C (-40°F to 140°F)	5-95%	N/A
Transit Range (units with battery)	-20°C to 60°C (-4°F to 140°F)		



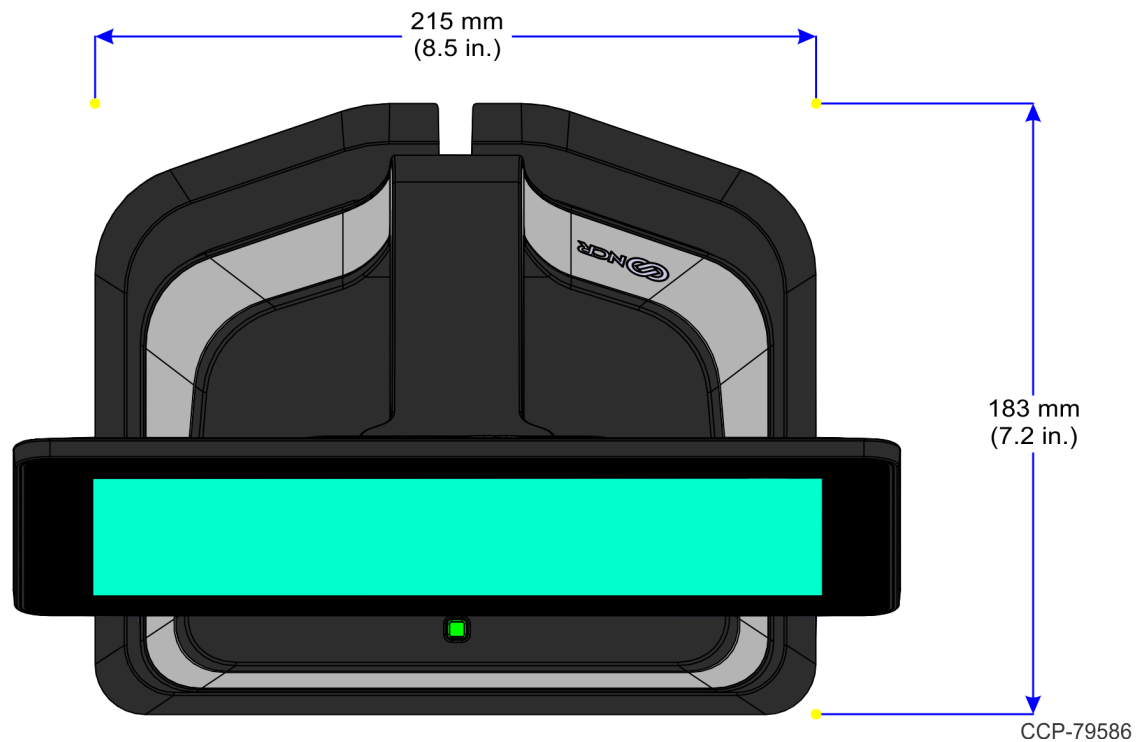
Note: Terminal may be warm to touch during normal operation.

POS Dimensions

Base Dimensions

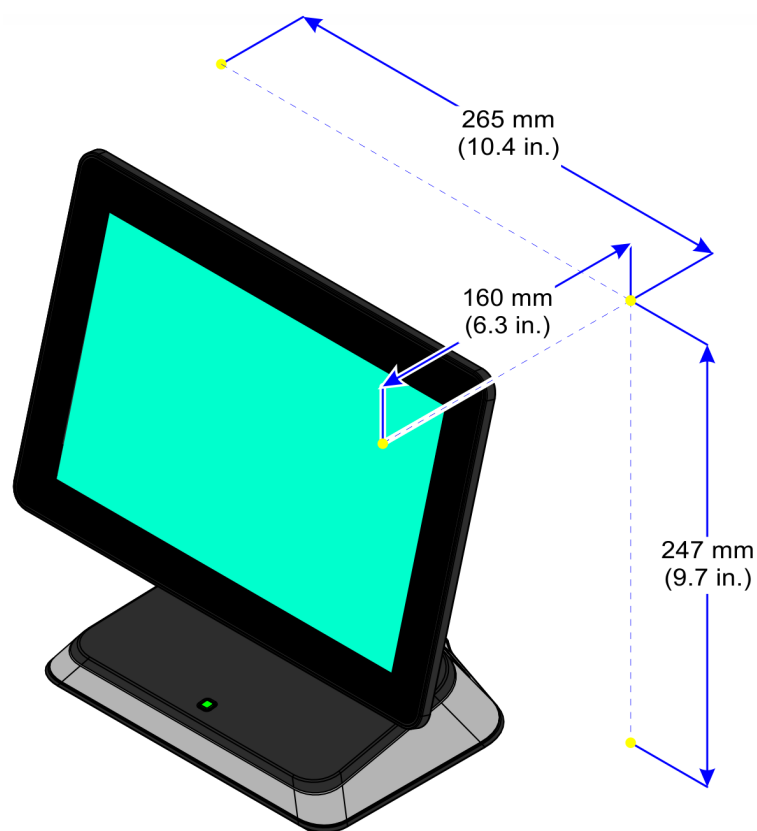


I/O Expansion Integrated Stand



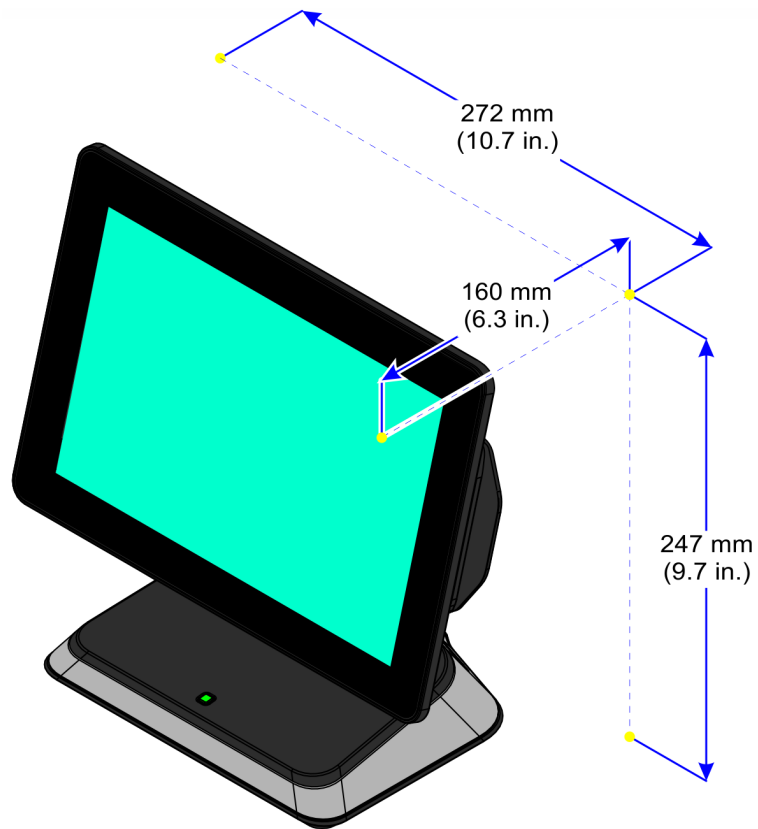
PX10 Dimensions

without MSR



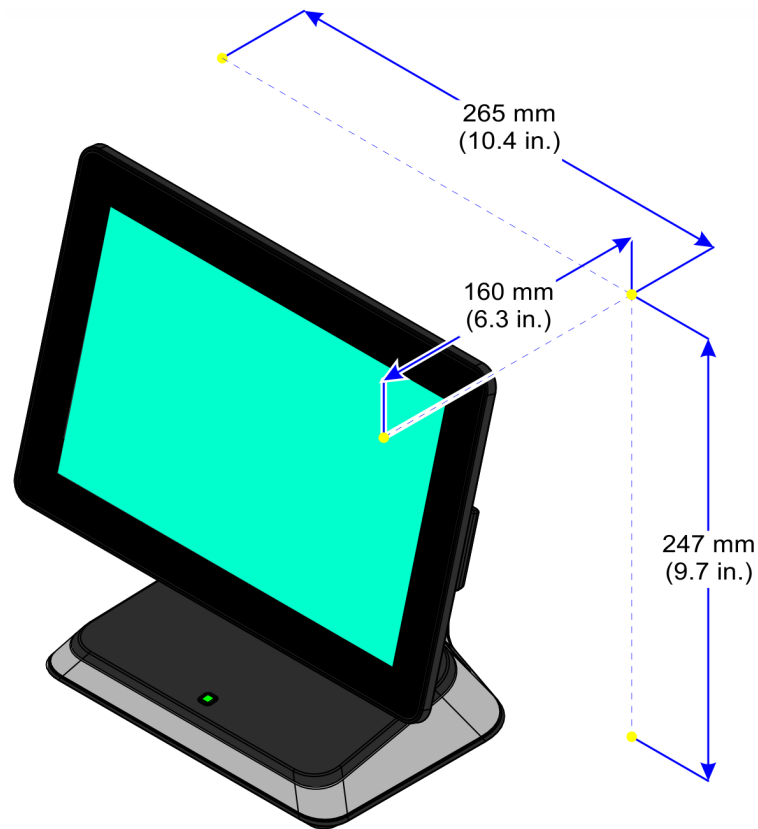
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with MSR



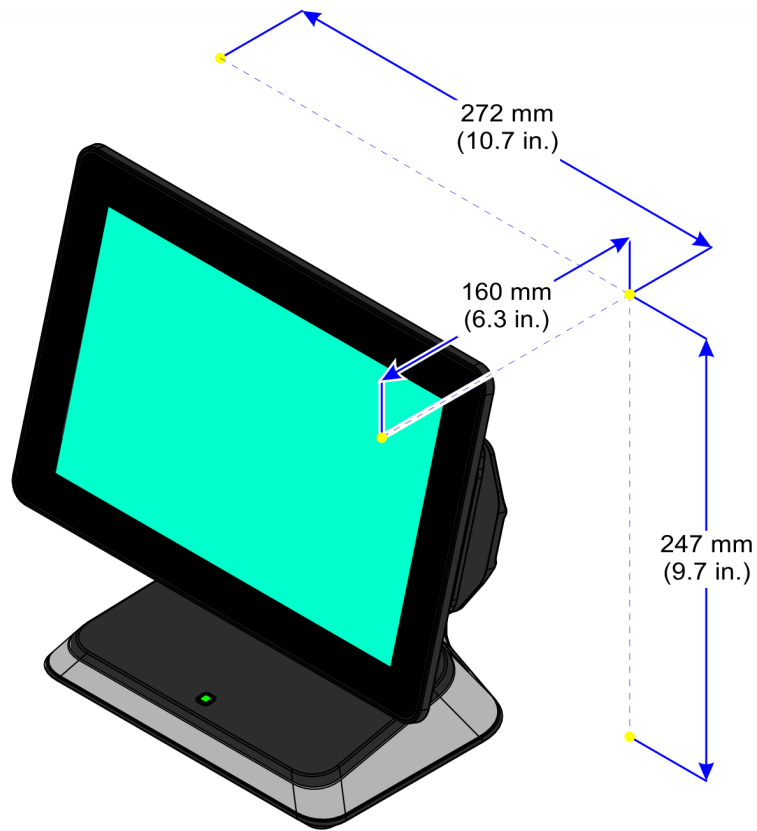
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with Biometrics



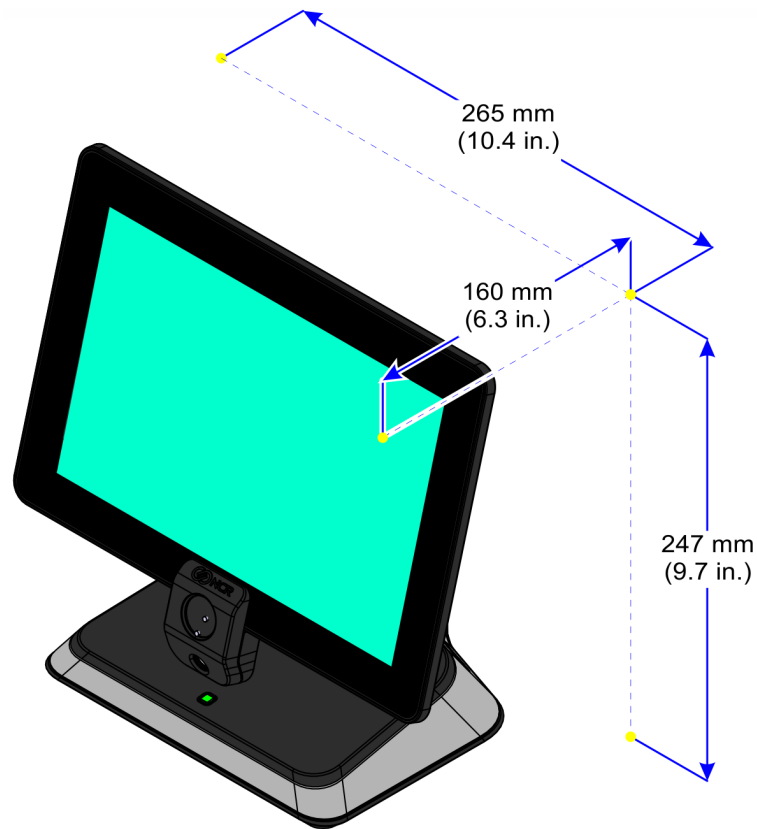
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with MSR+Biometrics



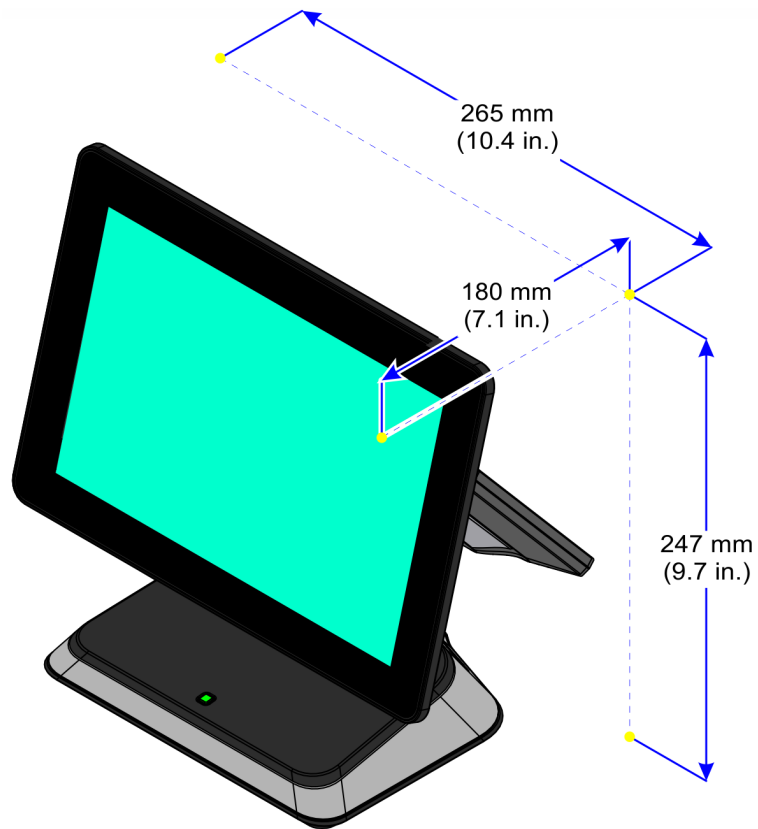
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with 2-in-1 Sign-In



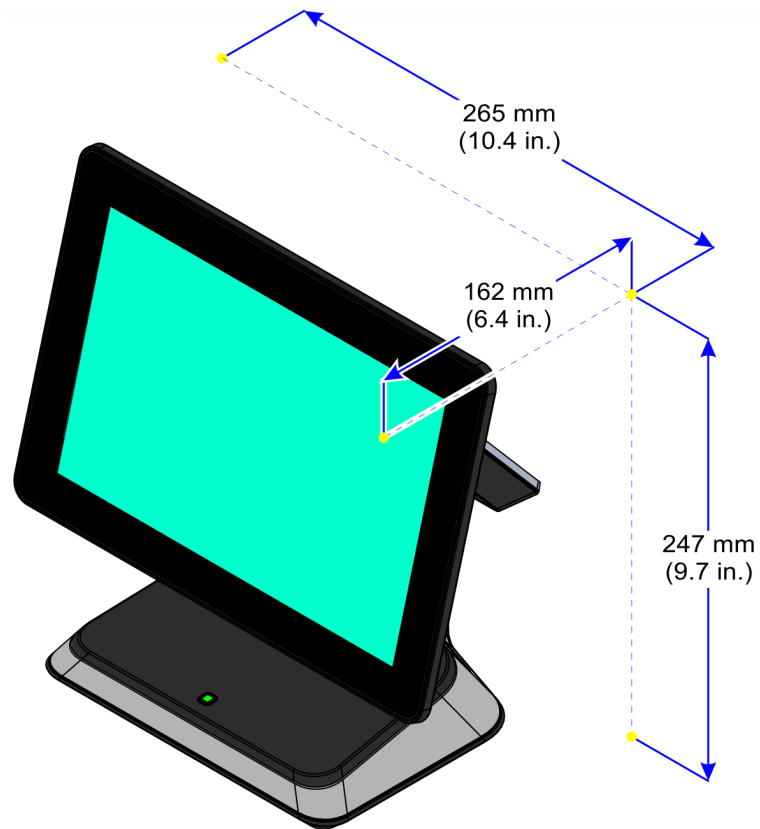
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with XL7 Customer Display



CCP-73988

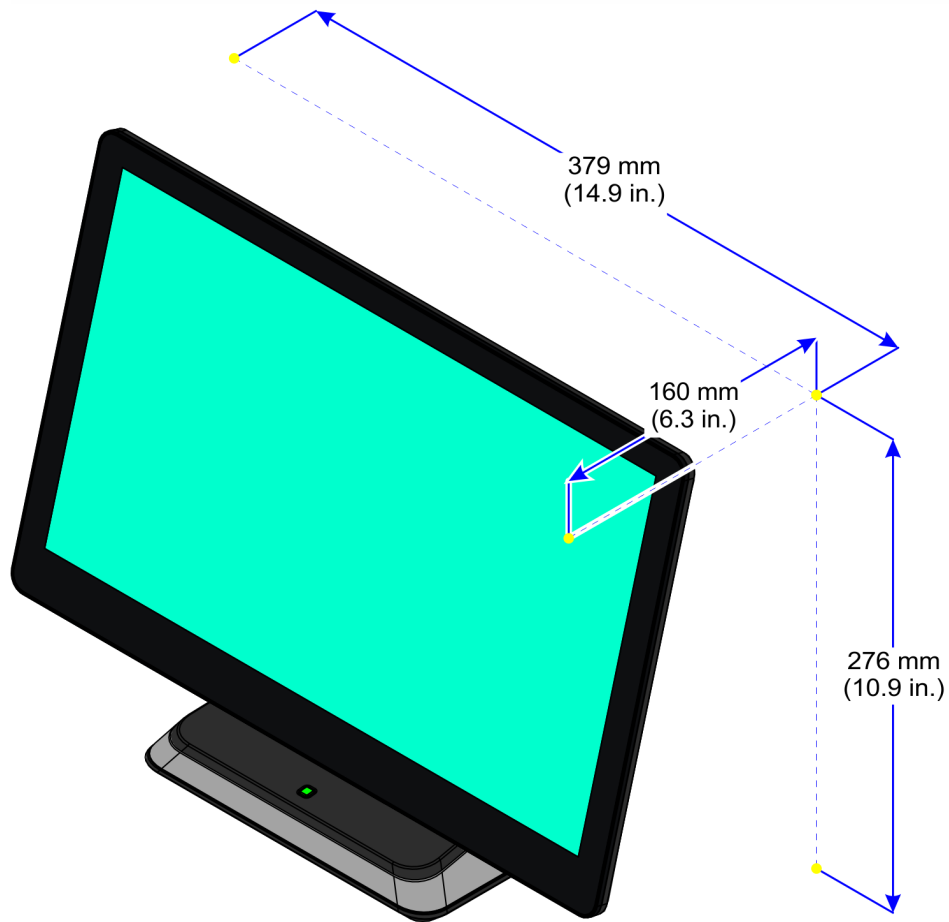
with 2x20 Customer Display



CCP-76577

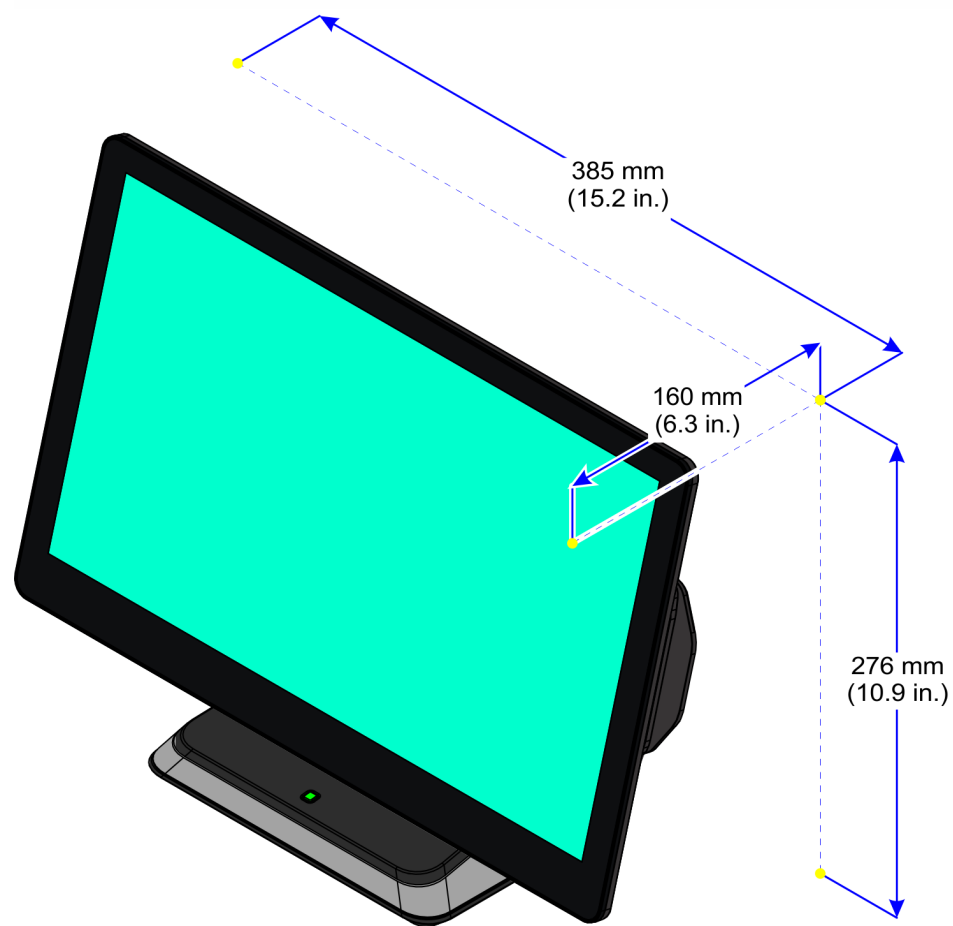
PX15 Dimensions

without MSR



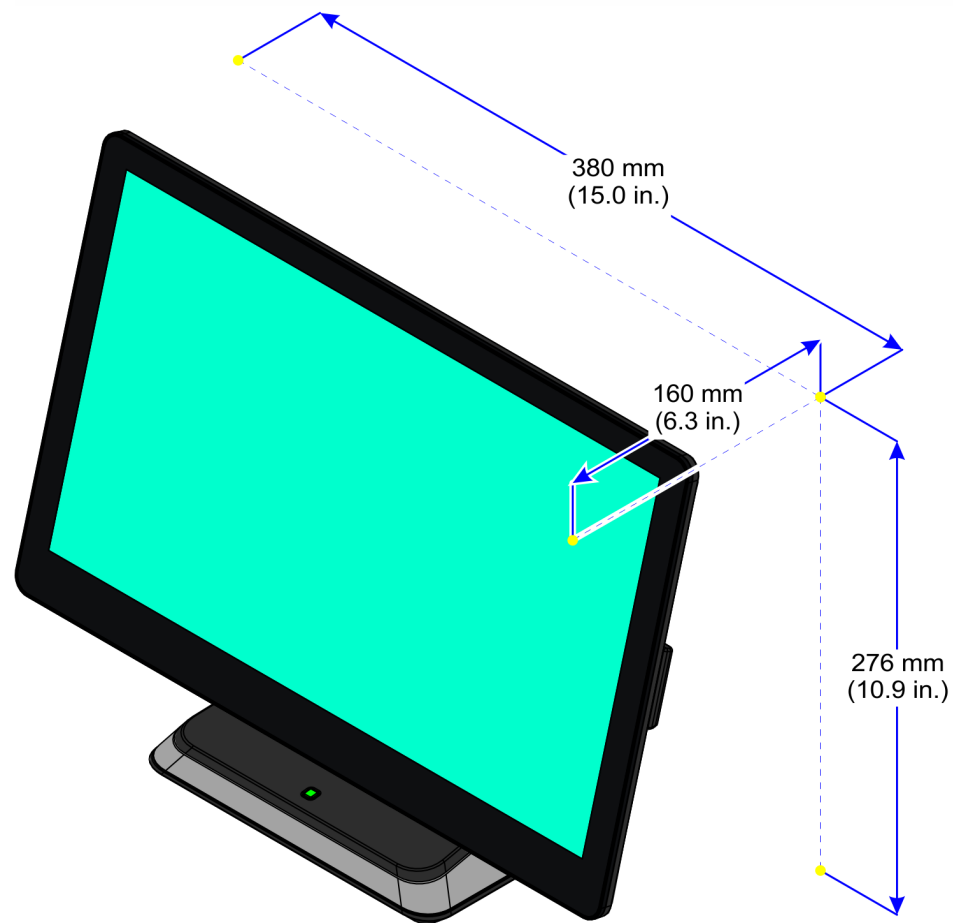
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with MSR

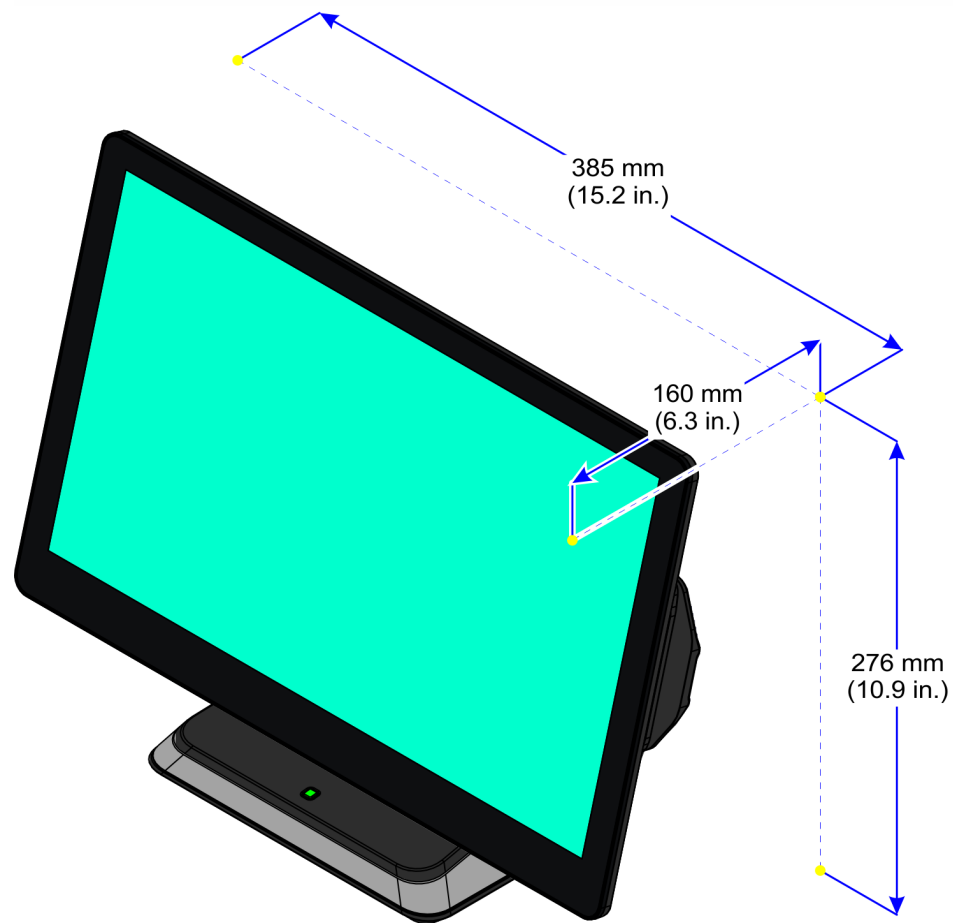


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with Biometrics

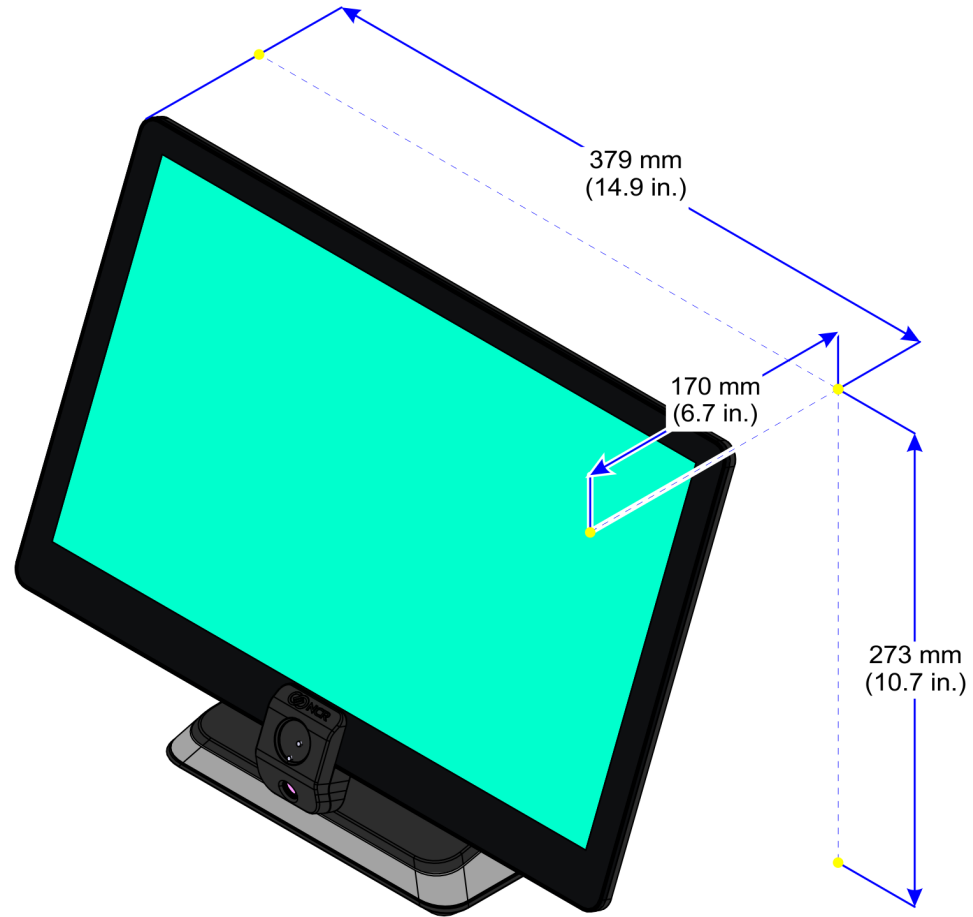


CCP-76580

with MSR+Biometrics

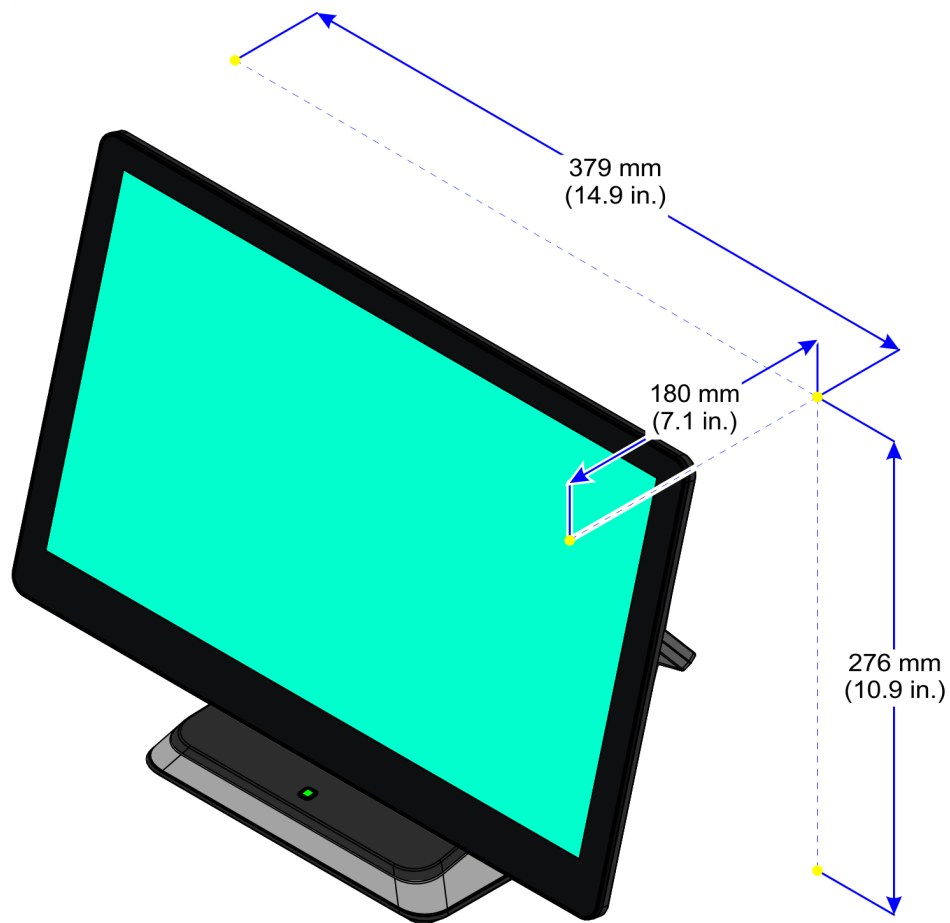
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with 2-in-1 Sign-In



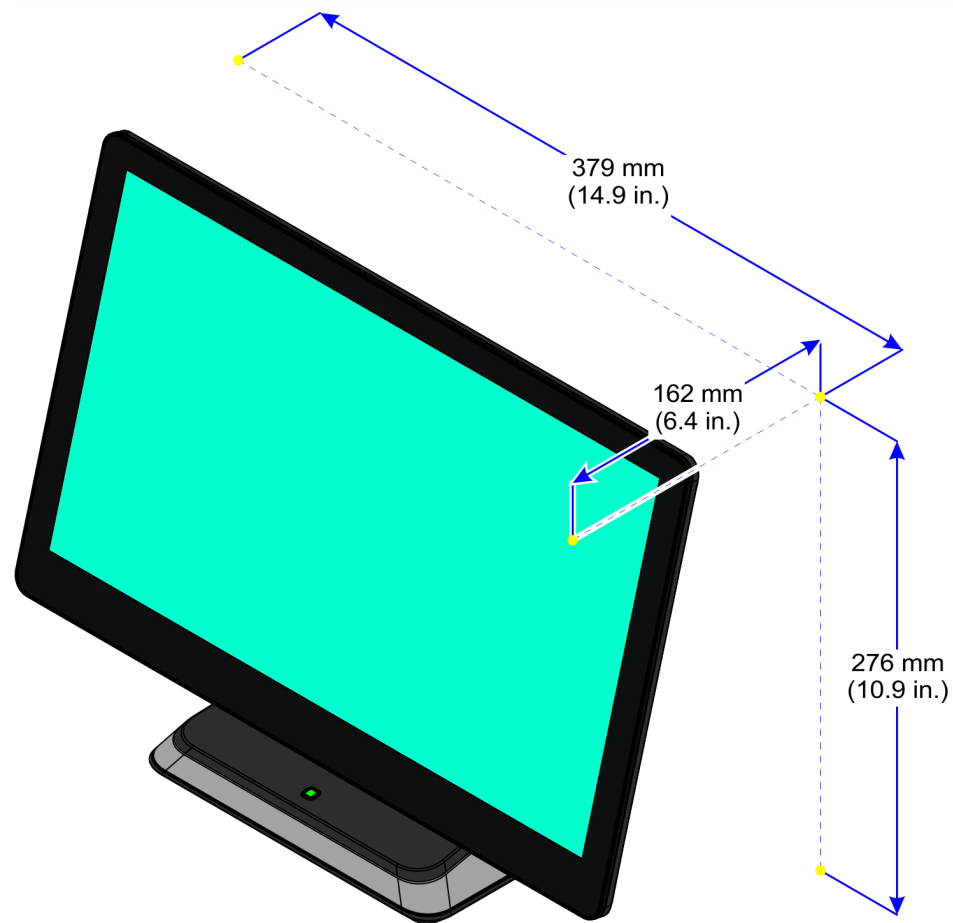
CCP-79588

with XL7 Customer Display



CCP-76583

with 2x20 Customer Display



CCP-76579

Component Weights

Terminal Weight

Component	Weight
10" 7746 Terminal with MSR, no pack or power supply	1.8 kg (3.9 lbs)
15" 7746 Terminal with MSR, no pack or power supply	2.5 kg (5.5 lbs)

Shipping Weight Estimate

Component	Weight
10" 7746 Terminal with MSR, pack foam, and box	2.8 kg (6.1 lbs)
10" 7746 Terminal with MSR, power supply, pack foam, and box	3.2 kg (7.0 lbs)
15" 7746 Terminal with MSR, pack foam, and box (with accessory box)	4.0 kg (8.8 lbs)
15" 7746 Terminal with MSR, power supply, pack foam, and box (with accessory box)	4.4 kg (9.7 lbs)



Note: To obtain the total maximum weight of a specific configuration, add the weights of the appropriate individual components.

Airflow Requirements

Do not block the air flow around the base of the NCR PX10/PX15 POS (7746) terminal. A minimum of 100 mm (4 inches) of clearance must be provided around the base of the terminal. This is required for proper cooling of the unit.

The following guidelines must be observed when placing the terminal inside an enclosure:

- Ventilation clearance requirements noted above must always be followed.
- Ambient air temperature around the unit must be maintained within the specified operating temperature range (0°C to 40°C).



Note: Cabinet/Enclosure modifications may be required at the customer location to accommodate these site preparation requirements.

Electrical Requirements

Terminal Power Requirements

The power cord of the terminal plugs into the back of the terminal and into a three-wire, single-phase, 120 or 240 VAC receptacle.

Voltage Range	Frequency	Current
100-120V	50-60 Hz	2.0A
200-240V	50-60 Hz	1.0A

The external power supply of the terminal has a maximum output of 150 Watts and provides power to the terminal, one printer, and peripherals.

Store AC Wiring Requirements

The customer must provide suitable AC power for the terminals, associated equipment, and devices. We recommend a dedicated unswitched power line dedicated to the NCR equipment installation. Refer to the [NCR Workstation and Peripherals AC Wiring Guide](#) (BSTO-2115-53) for store AC wiring requirements. The AC outlet must be installed near the terminal and easily accessible to the operator.

Cable Routing

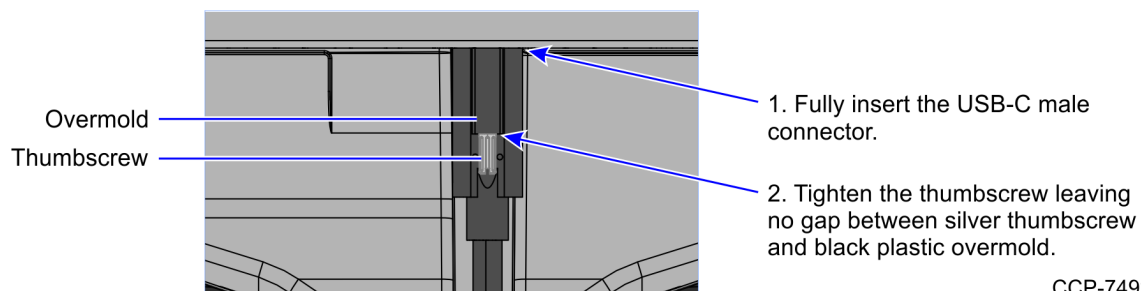
Route cables through the bottom edge of the terminal directly below the neck of the display.



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Note: For optimal connection of the USB-C Cable, avoid excessive tightening of the thumbscrew. Fully insert the USB-C male connector against the housing and tighten the thumbscrew only until the silver knurled portion touches the black plastic overmold. There should be no gap between the thumbscrew and the overmold, and no looseness in the overmold once the thumbscrew is properly tightened.



CCP-74929

Power Protection

In the process of power distribution, disturbances from outside and inside the facility can be introduced onto power lines. Such power disturbances can provide for an unstable environment for electronic equipment and can greatly impact the performance of these devices. Equipment that is impacted by poor power can result in downtime, data corruption, and increased service costs. Under these circumstances, NCR recommends the use of power stability products. Such protection devices are intended to guard against hardware damage and various system or program errors in the hospitality environment.

NCR offers Power Conditioners and UPS Systems that will protect electronic equipment and reduce downtime and extend the life of the Hospitality POS Solution. These power stability systems combine a surge diverter and noise filter with a highly efficient low-impedance isolation transformer. The Power Conditioners and UPS Systems control the power variable and do not require dedicated electrical circuits or isolated ground wiring. For more information regarding hospitality power products, please refer to Class 1625 product specific documentation.