# Dell C7520QT User's Guide



Model: C7520QT Regulatory model: C7520QTt

- NOTE: A NOTE indicates important information that helps you make better use of your display.
- $\triangle$  CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.
- WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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## **Package Contents**

Your display ships with the components shown below. Make sure that you have received all the components and contact Dell if something is missing.

NOTE: Some items may be optional and may not ship with your display. Some features may not be available in certain countries.

| Display                                 |
|---|
| Remote Control & Batteries<br>(AAA x 2) |
| Stylus x 2                              |

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|        | (Remote control & Stylus holder)<br>x 3  |
|--------|--|
|        | Wire Saddle x 3  |
|        | Power cable (varies by country)  |
|        | Power cable for connecting<br>Optiplex system to display<br>(see Optiplex (Optional))  |
| $\Box$ | USB 3.0 upstream cable (enables the USB ports on the display)  |
|        | DP cable (DP to DP)  |
|        | VGA cable  |
|        | HDMI cable   |
|        | <ul> <li>Flatfrog Whiteboard<br/>Software download<br/>instruction</li> <li>Safety, Environmental and<br/>Regulatory Information</li> <li>Quick Setup Guide</li> </ul> |

# **Product Features**

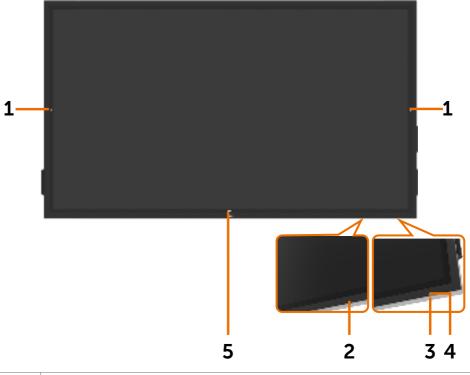
The **Dell C7520QT** display has an active matrix, thin film transistor (TFT), liquid crystal display (LCD), and LED backlight. The display features include:

- 189.273 cm (74.52-inch) active area display (Measured diagonally) 3840 x 2160 (16:9 aspect ratio) resolution, plus full-screen support for lower resolutions.
- · Video Electronics Standards Association (VESA™) 400 x 400 mm mounting holes.
- Plug and play capability if supported by your system.
- · On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- · Security lock slot.
- · Supports Asset Management Capability.
- · Arsenic-Free glass and Mercury-Free for Panel only.
- 0.3 W standby power when in the sleep mode.
- · Easily setup with Dell Optiplex Mirco PC (Mirco Form Factor).
- Up to 20 points and 4 pens InGlass™ Touch technology.
- · Optimize eye comfort with a flicker-free screen.
- The possible long-term effects of blue light emission from the display may cause damage to the eyes, including eye fatigue or digital eye strain. ComfortView feature is designed to reduce the amount of blue light emitted from the display to optimize eye comfort.

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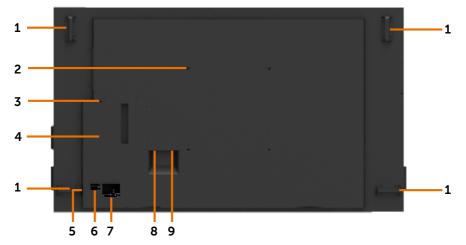
# **Identifying Parts and Controls**

#### Front view



| Label | Description  |
|-------|--|
| 1     | Screen drop down touch key   |
| 2     | IR Lens  |
| 3     | Power on/off button  |
| 4     | Power LED indicator  |
| 5     | OSD Launcher touch key (For more information, see Operating the Display) |

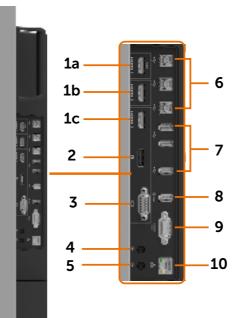
## **Back View**



| Label | Description                                      | Use   |  |
|-------|--|---|--|
| 1     | Handle x 4                                       | Use to move the display.  |  |
| 2     | VESA mounting holes (400 x 400 mm)               | To mount the display.   |  |
| 3     | Security lock slot                               | Secures Optiplex with security cable lock (sold separately).              |  |
| 4     | Optiplex holder                                  | Use to hold a Micro Form Factor Optiplex PC.                              |  |
| 5     | Serial number, Service Tag label, and<br>Website | Refer to this label if you need to contact<br>Dell for technical support. |  |
| 6     | Barcode, serial number, and Service Tag<br>label |   |  |
| 7     | Regulatory label                                 | List of approved regulatory labels.                                       |  |
| 8     | AC to optiplex (optional)                        | AC power to optiplex power adapter.                                       |  |
| 9     | AC power connector                               | To connect the display power cable.                                       |  |

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## Side View

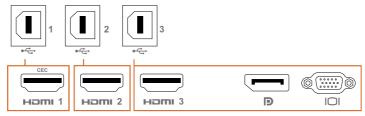


| Label | Description                   | Use  |
|-------|-------------------------------|--|
| 1a    | HDMI 1 connector              |  |
| 1b    | HDMI 2 connector              | Connect your computer with HDMI cable.   |
| 1c    | HDMI 3 connector              |  |
| 2     | DP connector                  | Connect your computer with DP cable.   |
| 3     | VGA connector                 | Connect your computer with VGA cable.  |
| 4     | Audio line-in port            | Analog audio (two channel) input.  |
| 5     | Audio line-out port           | Connect to external audio peripherals.<br>Only supports 2-channel audio.<br>NOTE: The audio line-out port does not support<br>headphones.  |
| 6     | USB 3.0 upstream ports<br>(3) | Connect the USB cable that comes with your display to the computer. Once this cable is connected, you can use the USB downstream connectors on the display and the touch screen function on the display. |



| 7  | USB 3.0 downstream | Connect your USB device.  |
|----|--------------------|---|
|    | ports (3)          | You can only use this connector after you have connected<br>the USB cable to the computer and USB upstream<br>connector on the display. |
| 8  | USB charging port  | USB 3.0 with 10 W with BC1.2 charging capability at 2A (max).   |
| 9  | RS232 connector    | Remote management and control of display via RS232.   |
| 10 | RJ-45 connector    | Remote Network Management and control of display via RJ-45.   |

#### Input sources and USB pairing



| Input sources | USB upstream |
|---------------|--------------|
| HDMI 1 CEC    | USB 1        |
| HDMI 2        | USB 2        |
| HDMI 3        |              |
| DP            | USB 3        |
| VGA           |              |

## **Bottom View**



| Label | Description         |
|-------|---------------------|
| 1, 2  | Speakers            |
| 3     | Power on/off button |

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# **Display Specifications**

| Screen type                      | Active matrix - TFT LCD                               |
|----------------------------------|---|
| Panel Type                       | In-plane switching Technology                         |
| Aspect ratio                     | 16:9  |
| Viewable image dimensions        |   |
| Diagonal                         | 189.273 cm (74.52 inches)                             |
| Active Area                      |   |
| Horizontal                       | 1649.664 mm (64.95 inches)                            |
| Vertical                         | 927.936 mm (36.53 inches)                             |
| Area                             | 1530323.4 mm <sup>2</sup> (2372 inches <sup>2</sup> ) |
| Pixel pitch                      | 0.429 mm x 0.429 mm                                   |
| Pixel per inch (PPI)             | 59  |
| Viewing angle                    |   |
| Horizontal                       | 178° (typical)  |
| Vertical                         | 178° (typical)  |
| Panel brightness                 | 350 cd/m² (typical)                                   |
| Contrast ratio                   | 1200 to 1 (typical)                                   |
| Display screen coating           | 9H, Anti-Smudge, Anti-Glare                           |
| Response Time                    | 8 ms typical (G to G), 12 ms max. (G to G )           |
| Color depth                      | 1.07 Billion colors                                   |
| Color gamut                      | NTSC ( 72%)   |
| Connectivity                     | • 1 x DP 1.2  |
|                                  | · 1 x VGA   |
|                                  | • 3 x HDMI 2.0  |
|                                  | • 4 x USB 3.0 downstream port                         |
|                                  | (1 x USB BC1.2 charging capability at 2A (max))       |
|                                  | • 3 x USB 3.0 upstream port                           |
|                                  | • 1 x Analog 2.0 audio line out (3.5 mm jack)         |
|                                  | • 1 x Analog 2.0 audio line in (3.5 mm jack)          |
|                                  | • 1 x RJ-45   |
|                                  | •1 x RS232  |
| Border width (edge of display to | 42.75 mm (Top)  |
| active area)                     | 42.69 mm (Left/Right)                                 |
|                                  | 46.75 mm (Bottom)                                     |



## Touch

| Туре         | InGlass Touch Technology™ |
|--------------|---------------------------|
| Input Method | Bare finger and stylus    |
| Interface    | USB HID Compliant         |
| Touch point  | Up to 20 points touch     |
|              | Up to 4 pens              |

NOTE: Touch Pen and Eraser differentiation ready (functionality subject to application).

## Support OS

| OS                      | Version  | Touch    | Pen              | Eraser |
|-------------------------|--|----------|------------------|--------|
| Windows                 | 7 Pro and Ultimate   | 20       | 4                | 1      |
|                         | 8, 8.1   | 20       | 4                | 1      |
|                         | 10   | 20       | 4                | 1      |
| Chorme OS               | Linux kernel version 3.15 (3.10) or later <sup>1</sup>           | 20       | 4 (0)            | 1(0)   |
| Android                 | 4.4 (KitKat) with Linux kernel 3.15 (3.10) or later <sup>1</sup> | 20       | 4 (0)            | 1(0)   |
| Other Linux<br>based OS | Linux kernel 3.15 or later                                       | 20       | 4                | 1      |
| macOS                   | 10.10, 10.11   | 1 (mouse | e <sup>2</sup> ) | No     |

<sup>1</sup> Functionality of Linux kernel has been verified on Ubuntu 14.04 and Debian 8. Functionality of Chrome OS and Android with Linux kernel 3.15 needs comfirmation.

 $^{\rm 2}$  Mouse emulation in landscape mode. Full multi-touch requires additional drivers on the host system.

#### Touch sensor input accuracy

|                             |                          | Typ <sup>1</sup> | Max <sup>2</sup> | Unit |
|-----------------------------|--------------------------|------------------|------------------|------|
| T                           | Center area <sup>3</sup> | 1.0              | 1.5              | mm   |
| Touch sensor input accuracy | Edge area⁴               | 1.2              | 2.0              | mm   |

<sup>1</sup> Average accuracy at the specified input area.

<sup>2</sup> 95-percentile accuracy of specified input area.

<sup>3</sup> >20 mm from active touch area edge

<sup>4</sup> >20 mm from active touch area edge

Note that touch sensor input accuracy is defined relative to the active touch area as defined in the reference drawing (listed in 8.1). The overall system accuracy, of touch co-ordinates relative to display co-ordinates, is directly affected by integration assembly tolerances.

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#### **Resolution Specifications**

| Horizontal scan range                              | 30 kHz to 140 kHz (DP/HDMI)           |
|--|---------------------------------------|
| Vertical scan range                                | 24 Hz to 75 Hz (DP/HDMI)              |
| Maximum preset resolution                          | 3840 x 2160 at 60 Hz                  |
| Video display capabilities<br>(DP & HDMI playback) | 480p, 576p, 720p, 1080i, 1080p, 2160p |

NOTE:VGA input resolution supported is 1920 x 1080 only.

#### Preset Display Modes

| Display Mode | Horizontal<br>Frequency<br>(kHz) | Vertical<br>Frequency<br>(Hz) | Pixel Clock<br>(MHz) | Sync Polarity<br>(Horizontal/<br>Vertical) |
|--------------|----------------------------------|-------------------------------|----------------------|--|
| 720 x 400    | 31.5                             | 70.0                          | 28.3                 | -/+  |
| 640 x 480    | 31.5                             | 60.0                          | 25.2                 | -/-  |
| 640 x 480    | 37.5                             | 75.0                          | 31.5                 | -/-  |
| 800 x 600    | 37.9                             | 60.0                          | 40.0                 | +/+  |
| 800 x 600    | 46.9                             | 75.0                          | 49.5                 | +/+  |
| 1024 x 768   | 48.4                             | 60.0                          | 65.0                 | -/-  |
| 1024 x 768   | 60.0                             | 75.0                          | 78.8                 | +/+  |
| 1152 x 864   | 67.5                             | 75.0                          | 108.0                | +/+  |
| 1280 x 800   | 49.3                             | 60.0                          | 71.0                 | +/+  |
| 1280 x 1024  | 64.0                             | 60.0                          | 108.0                | +/+  |
| 1280 x 1024  | 80.0                             | 75.0                          | 135.0                | +/+  |
| 1600 x 1200  | 75.0                             | 60.0                          | 162.0                | -/+  |
| 1920 x 1080  | 67.5                             | 60.0                          | 193.5                | +/+  |
| 2048 x 1152  | 71.6                             | 60.0                          | 197.0                | +/-  |
| 2560 x 1440  | 88.8                             | 60.0                          | 241.5                | +/-  |
| 3840 x 2160  | 65.68                            | 30.0                          | 262.75               | +/+  |
| 3840 x 2160  | 133.313                          | 60.0                          | 533.25               | +/+  |



## **Electrical Specifications**

| Video input signals               | <ul> <li>Digital video signal for each differential line<br/>Per differential line at 100 ohm impedance</li> <li>DP/HDMI/VGA signal input support</li> </ul> |
|-----------------------------------|--|
| Input voltage/ frequency/current  | 100-240 VAC / 50 or 60 Hz ± 3 Hz / 5.5 A (maximum)   |
| Output voltage/ frequency/current | 100-240 VAC / 50 or 60 Hz ± 3 Hz / 2 A (maximum)   |
| Inrush current                    | 120 V: 42 A (Max.) at 0 °C (cold start)  |
|                                   | 240 V: 80 A (Max.) at 0 °C (cold start)  |

## **Physical Characteristics**

| Connector type             | DP connector  |
|----------------------------|---|
|                            | VGA connector   |
|                            | HDMI connector  |
|                            | • Audio line-out  |
|                            | • Audio line-in   |
|                            | USB 3.0 connector   |
|                            | $\cdot$ USB charging port- supplying power of up to 5 V (max 2A) for connected devices                |
|                            | · RJ-45 connector   |
|                            | RS232 connector   |
| Signal cable type (in-box) | DP, 3 m cable<br>HDMI, 3 m cable<br>VGA, 3 m cable<br>USB 3.0, 3 m cable<br>Optiplex power cable, 1 m |
| Dimensions                 |   |
| Height                     | 1017.44 mm (40.06 inches)   |
| Width                      | 1735.02 mm (68.31 inches)   |
| Depth                      | 79.1 mm (3.11 inches)   |
| Weight                     |   |
| Weight with packaging      | 76 kg (167.55 lb)   |
| Weight without packaging   | 64 kg (141.10 lb)   |

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## **Environmental Characteristics**

| Compliant Standards |                                   |
|---------------------|-----------------------------------|
| RoHS Compliant      | yes                               |
| Temperature         |                                   |
| Operating           | 0 °C to 40 °C (32 °F to 104 °F)   |
| Non-operating       | -20 °C to 60 °C (-4 °F to 140 °F) |
| Humidity            |                                   |
| Operating           | 10% to 80% (non-condensing)       |
| Non-operating       | 5% to 90% (non-condensing)        |
| Altitude            |                                   |
| Operating           | 5,000 m (16,404 ft) (maximum)     |
| Non-operating       | 12,192 m (40,000 ft) (maximum)    |
| Thermal dissipation | 921.89 BTU/hour (maximum)         |
|                     | 546.30 BTU/hour (typical)         |

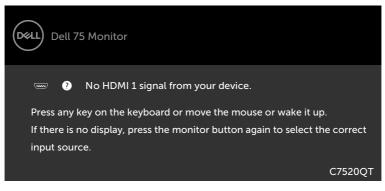


#### **Power Management Modes**

If you have VESA's DPM-compliant video card or software installed in your PC, the display can automatically reduce its power consumption when not in use. This is referred to as power save mode\*. If the computer detects input from the keyboard, mouse, or other input devices, the display automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature.

| VESA<br>Modes      | Horizontal<br>Sync | Vertical<br>Sync | Video  | Power Indicator    | Power Consumption                    |
|--------------------|--------------------|------------------|--------|--------------------|--------------------------------------|
| Normal operation   | Active             | Active           | Active | White              | 270 W (maximum)**<br>160 W (typical) |
| Active-off<br>mode | Inactive           | Inactive         | Off    | White<br>(Glowing) | Less than 0.3 W                      |
| Switch off         | -                  | -                | -      | Off                | Less than 0.3 W                      |

The OSD operates only in the normal operation mode. If you press any button in the active-off mode, the following message is displayed:



\*Zero power consumption in OFF mode can only be achieved by disconnecting the AC main cable from the display.

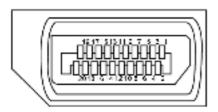
\*\*Maximum power consumption with maximum luminance.

Activate the computer and the display to gain access to the OSD.

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## **Pin Assignments**

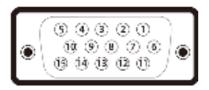
#### **DP connector**



| Pin number | 20-pin side of the connected signal cable |
|------------|---|
| 1          | ML3(n)                                    |
| 2          | GND                                       |
| 3          | ML3(p)                                    |
| 4          | ML2(n)                                    |
| 5          | GND                                       |
| 6          | ML2(p)                                    |
| 7          | ML1(u)                                    |
| 8          | GND                                       |
| 9          | ML1(p)                                    |
| 10         | ML0(n)                                    |
| 11         | GND                                       |
| 12         | ML0(p)                                    |
| 13         | CONFIG1/(GND)                             |
| 14         | CONFIG2/(GND)                             |
| 15         | AUX CH (p)                                |
| 16         | DP_Cable Detect                           |
| 17         | AUX CH (n)                                |
| 18         | Hot Plug Detect                           |
| 19         | GND                                       |
| 20         | +3.3V DP_PWR                              |

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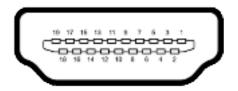
#### VGA connector



| Pin number | 15-pin side of the connected signal cable |
|------------|---|
| 1          | Video-Red                                 |
| 2          | Video-Green                               |
| 3          | Video-Blue                                |
| 4          | NC  |
| 5          | Self-test                                 |
| 6          | GND-R                                     |
| 7          | GND-G                                     |
| 8          | GND-B                                     |
| 9          | Computer 5 V / 3.3 V                      |
| 10         | GND-sync                                  |
| 11         | GND                                       |
| 12         | DDC data                                  |
| 13         | H-sync                                    |
| 14         | V-sync                                    |
| 15         | DDC clock                                 |

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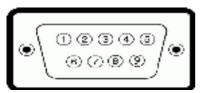
#### **HDMI** connector



| Pin number | 19-pin side of the connected signal cable |
|------------|---|
| 1          | TMDS DATA 2+                              |
| 2          | TMDS DATA 2 SHIELD                        |
| 3          | TMDS DATA 2-                              |
| 4          | TMDS DATA 1+                              |
| 5          | TMDS DATA 1 SHIELD                        |
| 6          | TMDS DATA 1-                              |
| 7          | TMDS DATA 0+                              |
| 8          | TMDS DATA 0 SHIELD                        |
| 9          | TMDS DATA 0-                              |
| 10         | TMDS CLOCK+                               |
| 11         | TMDS CLOCK SHIELD                         |
| 12         | TMDS CLOCK-                               |
| 13         | CEC                                       |
| 14         | Reserved (N.C. on device)                 |
| 15         | DDC CLOCK (SCL)                           |
| 16         | DDC DATA (SDA)                            |
| 17         | DDC/CEC Ground                            |
| 18         | +5 V POWER                                |
| 19         | HOT PLUG DETECT                           |



#### **RS232 connector**



| Pin number | 9-pin side of the connected signal cable |
|------------|--|
| 1          | -  |
| 2          | RX                                       |
| 3          | ТХ                                       |
| 4          | -  |
| 5          | GND                                      |
| 6          | -  |
| 7          | Not Used                                 |
| 8          | Not Used                                 |
| 9          | -  |

#### **RJ-45** connector





| Pin number | 12-pin side of the connected signal cable |
|------------|---|
| 1          | D+  |
| 2          | RCT                                       |
| 3          | D-  |
| 4          | D+  |
| 5          | RCT                                       |
| 6          | D-  |
| 7          | GND                                       |
| 8          | GND                                       |
| 9          | LED2_Y+                                   |
| 10         | LED2_Y-                                   |
| 11         | LED2_G+                                   |
| 12         | LED2_G-                                   |



#### Universal Serial Bus (USB)

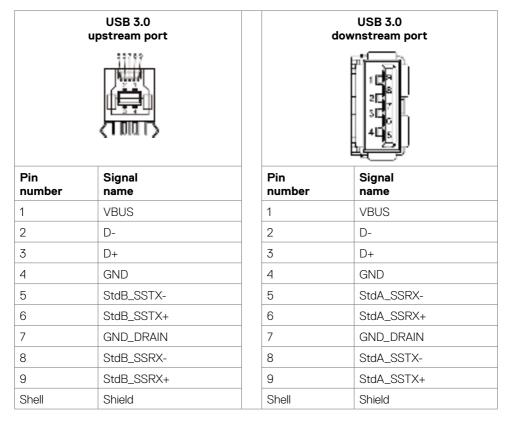
This section gives you information about the USB ports available on your display.

Your computer has the following USB ports:

- · 3 USB 3.0 upstream
- 4 USB 3.0 downstream (1 USB charging port)

**NOTE:** The display's USB ports work only when the display is on or in the power save mode. If you turn off the display and then turn it on, the attached peripherals may take a few seconds to resume normal functionality.

| Transfer speed | Data rate | Power consumption       |
|----------------|-----------|-------------------------|
| SuperSpeed     | 5 Gbps    | 4.5 W (Max., each port) |
| Hi-Speed       | 480 Mbps  | 4.5 W (Max., each port) |
| Full speed     | 12 Mbps   | 4.5 W (Max., each port) |



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# Plug-and-Play

You can install the display in any Plug-and-Play-compatible system. The display automatically provides the computer system with its extended display identification data (EDID) using display data channel (DDC) protocols so the computer can configure itself and optimize the display settings. Most display installations are automatic; you can select different settings if desired. For more information about changing the display settings, see Operating the Display.

# LCD Display Quality and Pixel Policy

During the LCD display manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on LCD Display Pixel Policy, see Dell support site at: http://www.dell.com/support/monitors.



# Setting Up the Display

## **Connecting Your Display**



#### MARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connect your display to the computer:

- 1. Turn off your computer.
- 2. Connect the HDMI/DP/VGA/USB cable from your display to the computer.
- **3.** Switch on your display.
- **4.** Select the correct input source at Display OSD Menu and turn on your computer.

# **Optiplex (Optional)**

#### Attaching the Optiplex



Open the carton, take out the Optiplex holder.

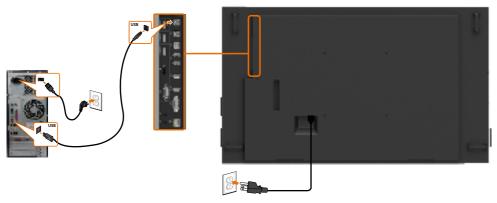


- 1. Remove cable cover.
- 2. Insert the Optiplex PC and power adapter into the respective compartments.
- 3. Plug in the cables and route the cables using the cable management hooks that is within the PC box holder.



**External PC connection** 

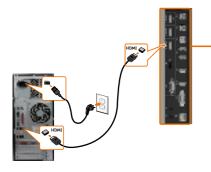
#### Connecting the USB cable

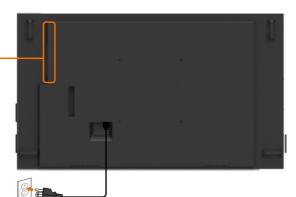


NOTE: Refer to section on input source and USB pairing.

Slide Optiplex holder back into display.

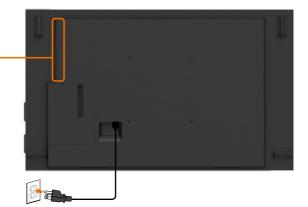
#### Connecting the HDMI cable



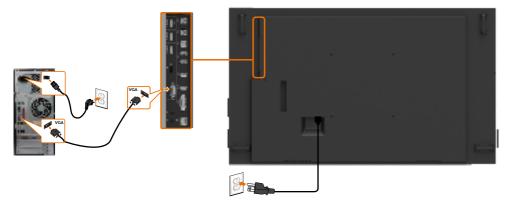


## Connecting the DP cable

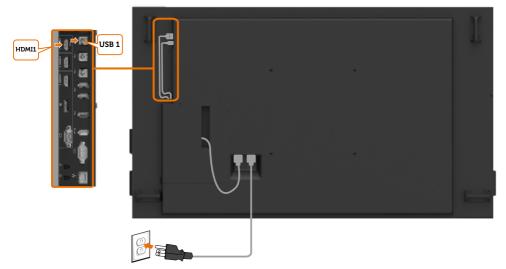




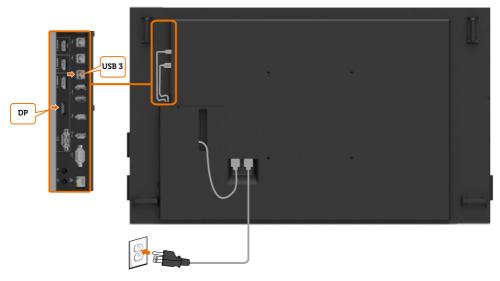
#### Connecting the VGA cable



# Connecting the Optiplex Connecting the HDMI cable

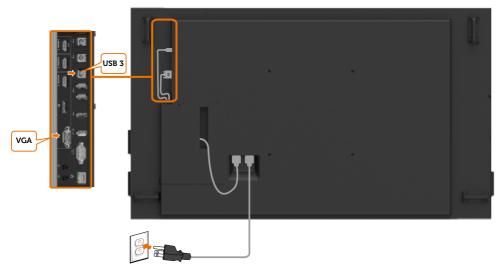


#### Connecting the DP cable





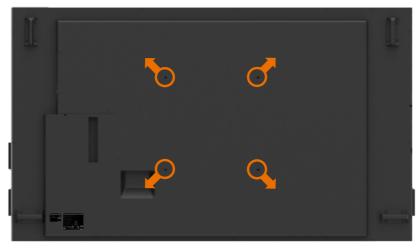
## Connecting the VGA cable





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## Wall Mounting



(Screw dimension: M8 x 35 mm).

Refer to installation instruction that comes with the 3rd party wall mount that customer purchases. Vesa-compatible base mounting kit (400 x 400) mm.

- 1. Install Wall Plate to Wall.
- **2.** Place the display panel on a soft cloth or cushion on a stable flat table.
- **3.** Attach the mounting brackets from the wall mounting kit to the display.
- **4.** Install Display to Wall Plate.
- 5. Ensure display is mounted vertically with no tilt forward or backward and a leveler is used to assist to mount the display.



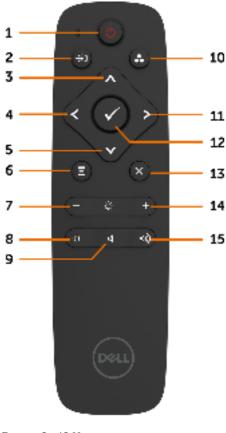
- · Do not attempt to wall mount the Touch Display by yourself. it should be installed by qualified installers.
- Recommended Wall Mount for this Display is can be found in the Dell support website at dell.com/support.



NOTE: For use only with UL or CSA or GS-listed wall mount bracket with minimum weight/load bearing capacity of the product.



## **Remote Control**



#### 1. Power On/Off

Switch this display on or off.

#### 2. Input Source

Select input source. Press 🕢 or 🌄 button to select from VGA or DP or HDMI 1 or HDMI 2 or HDMI 3.

Press button to confirm and exit.

#### 3. Up

Press to move the selection up in OSD menu.

#### 4. Left

Press to move the selection left in OSD menu.

#### 5. Down

Press to move the selection down in OSD menu.

#### 6. Menu

Press to turn on the OSD menu.

#### 7. Brightness -

Press to decrease the Brightness.

8. Volume -Press to decrease the Volume.

**9. MUTE** Press to turn the mute function on/off.

**10.Preset Modes** Display information about Preset Modes.

**11. Right** Press to move the selection right in OSD menu.

**12. OK** Confirm an entry or selection.

**13. Exit** Press to exit the Menu.

**14. Brightness +** Press to increase the Brightness.

**15. Volume +** Press to increase the Volume.

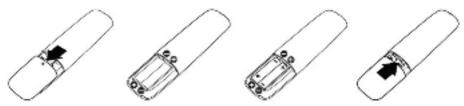
DELL

#### Inserting the batteries in the remote control

The remote control is powered by two 1.5V AAA batteries.

To install or replace batteries:

- **1.** Press and then slide the cover to open it.
- **2.** Align the batteries according to the (+) and (-) indications inside the battery compartment.
- **3.** Replace the cover.



# $\Delta$ CAUTION: The incorrect use of batteries can result in leaks or bursting. Be sure to follow these instructions:

- Place "AAA" batteries matching the (+) and (-) signs on each battery to the (+) and (-) signs of the battery compartment.
- Do not mix battery types.
- Do not combine new batteries with used ones. It causes shorter life or leakage of batteries.
- Remove the dead batteries immediately to prevent them from liquid leaking in the battery compartment. Don't touch exposed battery acid, as it can damage your skin.

# NOTE: If you do not intend to use the remote control for a long period, remove the batteries.

#### Handling the remote control

- · Do not subject to strong shock.
- Do not allow water or other liquids to splash on the remote control. If the remote control gets wet, wipe it dry immediately.
- · Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

#### Operating range of the remote control

Point the top of the remote control toward the LCD display's remote sensor during button operation.

Use the remote control within a distance of about 7 m from remote control sensor or at a horizontal and vertical angle of within 22.5° within a distance of about 7 m.



NOTE: The remote control may not function properly when the remote control sensor on the display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.









# **Operating the Display**

## Turning on the Display

Press the **Power** button to turn the display On and Off. The white LED indicates the display is On and fully functional. A glowing white LED indicates DPMS Power Save Mode.



# **Touch OSD Launcher**

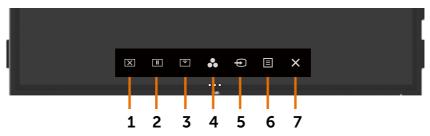
This display comes with a touch OSD functionalities. Press the OSD launcher touch key to access the functionalities.





# Using the Touch Control Launcher

Use the touch control icons on the front of the display to adjust the characteristics of the image being displayed. As you use these icons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.



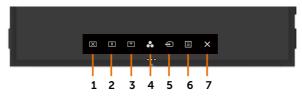
The following table describes the touch control icons:

| Touch Control icons |                  | Description   |
|---------------------|------------------|---|
| 1                   |                  | Use this icon to switch screen to black or white.                                 |
|                     |                  | Go to Menu to select screen off color.  |
|                     | Screen Off       | Use touch key 💽 to screen restore.  |
| 2                   |                  | To a freeze screen when press/activate.   |
|                     | •                | Use touch key 💼 to screen restore.  |
|                     | Suspend          | -   |
| 3                   |                  | Screen Drop Down so that you can easily reach the top of the image.               |
|                     | Screen Drop Down | Use touch key 💼 to screen restore.  |
| 4                   | 8                | Use this icon to choose from a list of preset color modes.                        |
|                     | Preset Modes     |   |
| 5                   | Ð                | Use this icon to choose from a list of Input Source.                              |
|                     | Input Source     |   |
| 6                   | Ô                | Use this menu icon to launch the on-screen display (OSD) and select the OSD menu. |
|                     | Menu             | See Accessing the Menu System.  |
| 7                   | $\bigotimes$     | Use this icon to go back to the main menu or exit the OSD main menu.              |
|                     | Exit             |   |

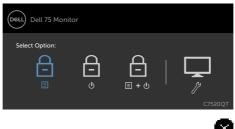
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# Using the OSD lock function

1. Press the OSD launcher touch key.



2. Touch and hold <sup>(2)</sup> for 5 seconds. you can see following select option:



The following table describes the touch control icons:

| Options                         | Description  |
|---------------------------------|--|
| 1 <b>(</b>                      | Use this icon to lock OSD menu function.                                 |
| OSD menu lock                   |  |
| 2                               | Use this icon to lock power button from powering off.                    |
| Power-off button lo             | ock  |
| 3                               | Use this icon to lock OSD menu and power button from powering off.       |
| OSD menu and pow<br>button lock | /er  |
| 4                               | Use this icon to run the built-in diagnostics, see Built-in Diagnostics. |
| Built-in Diagnostic             | CS   |



3. Touch and hold 🕙 for 5 seconds, touch 🙆 to unlock.

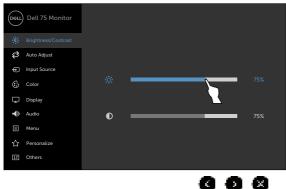


## Using the On-Screen Display (OSD) Menu

#### Accessing the Menu System

NOTE: Any changes you make using the OSD menu are automatically saved if you move to another OSD menu, exit the OSD menu, or wait for the OSD menu to disappear.

1 Press the 🙂 icon on the remote control or OSD Launcher touch key to launch the OSD menu.



Use the icons to adjust the image settings.

| Touch control icon |            |       | Description   |  |
|--------------------|------------|-------|---|--|
| 1                  |            | Down  | Use the <b>Up</b> (increase) and <b>Down</b> (decrease) icons to adjust items in the OSD menu.    |  |
| 2                  | ()<br>Left | Right | Use the <b>Left</b> (decrease) and <b>Right</b> (increase) icons to adjust items in the OSD menu. |  |



| 3 | ОК            | Use the <b>OK</b> icon to confirm your selection.         |
|---|---------------|---|
| 4 | <b>E</b> Back | Use the <b>Back</b> icon to go back to the previous menu. |

#### **Touch OSD Control**

| lcon | Menu and<br>Submenus  | Description  |  |  |  |  |  |
|------|---|--|--|--|--|--|--|
| 8    | Brightness/   | Use this menu to activate Brightness/Contrast adjustment.  |  |  |  |  |  |
| 00   | Contrast  | Dell 75 Monitor  |  |  |  |  |  |
|      |   | 🔅 Brightness/Contrast  |  |  |  |  |  |
|      |   | 🤣 Auto Adjust  |  |  |  |  |  |
|      |   | Input Source   |  |  |  |  |  |
|      |   | نې: Color 75%  |  |  |  |  |  |
|      |   | Display  |  |  |  |  |  |
|      |   | ▲ Audio 75%  |  |  |  |  |  |
|      |   | E Menu   |  |  |  |  |  |
|      |   | ☆ Personalize<br>태 Others  |  |  |  |  |  |
|      |   |  |  |  |  |  |  |
|      |   | 008  |  |  |  |  |  |
|      | Brightness  | Brightness adjusts the luminance of the backlight  |  |  |  |  |  |
|      |   | (minimum 0; maximum 100).  |  |  |  |  |  |
|      |   | Touch the 🕜 icon to increase brightness.   |  |  |  |  |  |
|      | Touch the 😒 icon to decrease brightness.  |  |  |  |  |  |  |
|      | <b>Contrast</b> Adjust the <b>Brightness</b> first, and then adjust <b>Contrast</b> of further adjustment is necessary. |  |  |  |  |  |  |
|      |   | Touch the 🔇 icon to increase contrast and Touch the 🔊 icon to decrease contrast (between 0 and 100). |  |  |  |  |  |
|      |   | Contrast adjusts the difference between darkness and lightness on the display.                       |  |  |  |  |  |

| lcon | Menu and<br>Submenus | Description           |  |
|------|----------------------|-----------------------|--|
| 0    | Auto Adjust          |                       | ur computer recognizes your display on startup, the<br><b>nt</b> function optimizes the display settings for use<br>ular setup.  |
|      |                      | video signal. Afte    | Int allows the display to self-adjust to the incoming<br>er using <b>Auto Adjustment</b> , you can further tune<br>using the <b>Pixel Clock</b> (Coarse) and <b>Phase</b> (Fine)<br><b>Display</b> menu. |
|      |                      | Dell 75 Monitor       |  |
|      |                      | D Brightness/Contrast |  |
|      |                      | 😫 Auto Adjust         | Press 🗸 to adjust the screen automatically.  |
|      |                      | Input Source          |  |
|      |                      | 🔂 Color               |  |
|      |                      | Display               |  |
|      |                      | Audio                 |  |
|      |                      | 🗐 Menu                |  |
|      |                      | ☆ Personalize         |  |
|      |                      | 11 Others             |  |

The following dialog appears on a black screen as the display automatically adjusts to the current input:

Auto adjustment in progress...

NOTE: In most cases, Auto Adjust produces the best image for your configuration.

NOTE: Auto Adjust feature option is only available when your display is connected using the VGA cable.

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| con      | Menu and<br>Submenus  | Description  |  |  |  |  |  |  |
|----------|-----------------------|--|--|--|--|--|--|--|
| Ð        | Input Source          | Use the <b>Input Source</b> menu to select between different video inputs that are be connected to your display. |  |  |  |  |  |  |
|          |                       | Dell 75 Monitor  |  |  |  |  |  |  |
|          |                       | -<br>Ø: Brightness/Contrast VGA  |  |  |  |  |  |  |
|          |                       | Auto Adjust DP   |  |  |  |  |  |  |
|          |                       | Input Source   |  |  |  |  |  |  |
|          |                       | Color HDMI 2   |  |  |  |  |  |  |
|          |                       | Display HDMI 3   |  |  |  |  |  |  |
|          |                       | Audio     Auto Select     On   |  |  |  |  |  |  |
|          |                       | Menu     Reset Input Source  |  |  |  |  |  |  |
|          |                       | 分 Personalize  |  |  |  |  |  |  |
|          |                       | Others   |  |  |  |  |  |  |
|          |                       | 8  |  |  |  |  |  |  |
|          | VGA                   | Select <b>VGA</b> input when you are using the VGA connector.  |  |  |  |  |  |  |
|          | DP                    | Select <b>DP</b> input when you are using the DP (DisplayPort) connector.  |  |  |  |  |  |  |
|          | HDMI 1                | Select the <b>HDMI 1</b> input when you are using the HDMI 1 connector.  |  |  |  |  |  |  |
|          | HDMI 2                | Select the <b>HDMI 2</b> input when you are using the HDMI 2 connecto  |  |  |  |  |  |  |
|          | HDMI 3                | Select the <b>HDMI 3</b> input when you are using the HDMI 3 connecto  |  |  |  |  |  |  |
|          | Auto Select           | Select Auto Select. the display scans for available input sources.   |  |  |  |  |  |  |
|          | Reset Input<br>Source | Resets your display's <b>Input Source</b> settings to the factory defaults.                                      |  |  |  |  |  |  |
| <u>a</u> | Color                 | Use the <b>Color</b> menu to adjust the color setting mode.  |  |  |  |  |  |  |
|          |                       | Dell 75 Monitor  |  |  |  |  |  |  |
|          |                       | Brightness/Contrast Preset Modes > Standard  |  |  |  |  |  |  |
|          |                       | Auto Adjust Input Color Format > RGB   |  |  |  |  |  |  |
|          |                       | D Input Source Reset Color   |  |  |  |  |  |  |
|          |                       | 🚯 Color  |  |  |  |  |  |  |
|          |                       | L Display  |  |  |  |  |  |  |
|          |                       | Audio  |  |  |  |  |  |  |
|          |                       | E Menu   |  |  |  |  |  |  |
|          |                       | ☆ Personalize  |  |  |  |  |  |  |
|          |                       | If Others  |  |  |  |  |  |  |
|          |                       | 0  |  |  |  |  |  |  |
|          |                       |  |  |  |  |  |  |  |



#### lcon Menu and Description Submenus Preset Modes When you select Preset Modes, you can choose Standard, ComfortView, Color Temp. or Custom Color from the list. xell Brightness/Contrast Auto Adjust ComfortView Input Source Color Temp. Custom Color Display Audio 🗐 Menu Personalize ☆ It Others **S** X

- Standard: Default color settings. This is the default preset mode.
- **ComfortView:** Decreases the level of blue light emitted from the screen to make viewing more comfortable for your eyes.

#### NOTE: To reduce the risk of eye strain and neck/arm/back/ shoulders pain from using the display for long periods of time, we suggest you to :

- Set the screen about 20 to 28 inches (50-70 cm) from your eyes.
- Blink frequently to moisten or rewet your eyes when working with the display.
- Take regular and frequent breaks for 20 minutes every two hours.
- Look away from your display and gaze at a distant object at 20 feet away for at least 20 seconds during the breaks.
- Perform stretches to relieve tension in the neck/arm/back/ shoulders during the breaks.
- Color Temp.: The screen appears warmer with a red/yellow tint with slider set at 5,000K or cooler with blue tint with slider set at 10,000K.
- Custom Color: Allows you to manually adjust the color settings.

Touch the set and set icons to adjust the Red, Green, and Blue values and create your own preset color mode.

| lcon | Menu and<br>Submenus  | Description                                       |                    |                   |                |
|------|-----------------------|---|--------------------|-------------------|----------------|
|      | Input Color<br>Format | Allows you to set the <b>rGB:</b> Select this     |                    |                   |                |
|      |                       | (or DVD player) u                                 |                    |                   | i to a compute |
|      |                       | <ul> <li>YPbPr: Select thi<br/>output.</li> </ul> | s option if your [ | VD player suppo   | rts only YPbPr |
|      |                       | Dell 75 Monitor                                   |                    |                   |                |
|      |                       | D Brightness/Contrast                             |                    |                   |                |
|      |                       | 🔁 Auto Adjust                                     |                    |                   |                |
|      |                       | Input Source                                      |                    | YPbPr             |                |
|      |                       | 🔂 Color   |                    |                   |                |
|      |                       | Display   |                    |                   |                |
|      |                       | Audio   |                    |                   |                |
|      |                       | Menu  |                    |                   |                |
|      |                       | ☆ Personalize                                     |                    |                   |                |
|      |                       | It Others   |                    |                   |                |
|      |                       |   |                    | 6                 | <u> </u>       |
|      |                       |   |                    |                   | <u>e</u>       |
|      | Reset Color           | Resets your display                               | 's color settings  | to the factory de | faults.        |

| con | Menu and<br>Submenus | Description   |  |  |  |  |
|-----|----------------------|---|--|--|--|--|
| A   | Display              | Use the <b>Display</b> menu to adjust image.  |  |  |  |  |
| ÷   |                      | Dell 75 Monitor   |  |  |  |  |
|     |                      | Brightness/Contrast Aspect Ratio      Wide 16:9   |  |  |  |  |
|     |                      | Auto Adjust     Horizontal Position   |  |  |  |  |
|     |                      | Input Source     Vertical Position  |  |  |  |  |
|     |                      | € Color Sharpness > 50  |  |  |  |  |
|     |                      | Lisplay Pixel Clock   |  |  |  |  |
|     |                      | Audio Phase   |  |  |  |  |
|     |                      | E Menu Reset Display  |  |  |  |  |
|     |                      | 合 Personalize   |  |  |  |  |
|     |                      | 11 Others   |  |  |  |  |
|     |                      |   |  |  |  |  |
|     | Aspect Ratio         | Adjust the image ratio to <b>Wide 16:9, 4:3</b> or <b>5:4</b> .   |  |  |  |  |
|     | Horizontal           | Use 💦 or 🔽 to adjust the image left or right.   |  |  |  |  |
|     | Position             | Minimum is 'O' (-).   |  |  |  |  |
|     |                      | Maximum is '100' (+).   |  |  |  |  |
|     | Vertical             | Use 💦 or 🔯 to adjust the image up or down.  |  |  |  |  |
|     | Position             | Minimum is '0' (-).   |  |  |  |  |
|     |                      | Maximum is '100' (+).   |  |  |  |  |
|     |                      | NOTE: Horizontal Position and Vertical Position adjustments are only available for "VGA" input.   |  |  |  |  |
|     | Sharpness            | Makes the image look sharper or softer.   |  |  |  |  |
|     |                      | Use 🙆 or 🙆 to adjust the sharpness from '0' to '100'.   |  |  |  |  |
|     | Pixel Clock          | The <b>Phase</b> and <b>Pixel Clock</b> adjustments allow you to adjust your display to your preference.  |  |  |  |  |
|     |                      | Use the 💏 or 💮 icons to adjust for best image quality.  |  |  |  |  |
|     |                      | NOTE: Pixel Clock adjustments are only available for "VGA" input  |  |  |  |  |
|     | Phase                | If satisfactory results are not obtained using the <b>Phase</b> adjustment, use the <b>Pixel Clock</b> (coarse) adjustment and then use <b>Phase</b> (fine again. |  |  |  |  |
|     |                      | 5   |  |  |  |  |

NOTE: Phase adjustments are only available for "VGA" input.



| lcon | Menu and<br>Submenus | Description   |  |                         |  |  |  |  |  |
|------|----------------------|---|--|-------------------------|--|--|--|--|--|
|      | Reset Display        | Restores the displ  | ay settings to fa  | ctory defaults.         |  |  |  |  |  |
| Ð    | Audio                | Dell 75 Monitor   |  |                         |  |  |  |  |  |
|      |                      | Brightness/Contrast   | Volume   |                         |  |  |  |  |  |
|      |                      | 😂 Auto Adjust   | Audio Source   | > НДМІ 1                |  |  |  |  |  |
|      |                      | • Input Source  | Speaker  |                         |  |  |  |  |  |
|      |                      | 🔂 Color   | Reset Audio  |                         |  |  |  |  |  |
|      |                      | Display   |  |                         |  |  |  |  |  |
|      |                      | Audio   |  |                         |  |  |  |  |  |
|      |                      | 🗏 Menu  |  |                         |  |  |  |  |  |
|      |                      | ☆ Personalize   |  |                         |  |  |  |  |  |
|      |                      | 11 Others   |  |                         |  |  |  |  |  |
|      |                      |   |  | 6                       |  |  |  |  |  |
|      | Volume               | Allows you to set   | the volume level   | of audio source.        |  |  |  |  |  |
|      |                      | Use 🔼 or 💟 to   | Use $\bigwedge$ or $\bigvee$ to adjust the volume level from '0' to '100'. |                         |  |  |  |  |  |
|      | Audio Source         | Allows you to set t   | the audio source   | e to <b>PC Audio</b> or |  |  |  |  |  |
|      |                      | HDMI/DP.  |  |                         |  |  |  |  |  |
|      | Speaker              | Allows you to On or Off <b>Speaker</b> function.  |  |                         |  |  |  |  |  |
|      | Reset Audio          | Select this option  | to restore defau   | lt audio settings.      |  |  |  |  |  |
| Ø    | Menu                 | Select this option to adjust the settings of the OSD, such as the languages of the OSD, the amount of time the menu remains on screen, and so on. |  |                         |  |  |  |  |  |
|      |                      | Dell 75 Monitor   |  |                         |  |  |  |  |  |
|      |                      | Brightness/Contrast   | Language   | > English               |  |  |  |  |  |
|      |                      | Auto Adjust   | Transparency   |                         |  |  |  |  |  |
|      |                      | • Input Source  | Timer  |                         |  |  |  |  |  |
|      |                      | Color   | Reset Menu   |                         |  |  |  |  |  |
|      |                      | Display   |  |                         |  |  |  |  |  |
|      |                      | Audio   |  |                         |  |  |  |  |  |
|      |                      |   |  |                         |  |  |  |  |  |
|      |                      | 🗐 Menu  |  |                         |  |  |  |  |  |
|      |                      | 은 Personalize   |  |                         |  |  |  |  |  |
|      |                      | _   |  |                         |  |  |  |  |  |



| lcon | Menu and<br>Submenus | Description  |                        |       |  |  |  |  |
|------|----------------------|--|------------------------|-------|--|--|--|--|
|      | Language             | Set the OSD display to one of eight languages.<br>(English, Spanish, French, German, Brazilian Portuguese, Russian,<br>Simplified Chinese, or Japanese). |                        |       |  |  |  |  |
|      | Transparency         | Select this option to change the menu transparency by using and constraints (min. 0 / max. 100).   |                        |       |  |  |  |  |
|      | Timer                | OSD Hold Time:<br>press a button.<br>Use the 🔊 and 🕥<br>increments, from 5   | icons to adjust t      |       | D remains active after you<br>slider in 1-second |  |  |  |
|      | Reset Menu           | Restore the menu s   | settings to factory    | / det | faults.  |  |  |  |
| 삷    | Personalize          | Dell 75 Monitor  |                        |       |  |  |  |  |
|      |                      | D Brightness/Contrast  | Power Button LED       |       | On During Active                                 |  |  |  |
|      |                      | 😂 Auto Adjust  | USB                    |       | Off During Standby                               |  |  |  |
|      |                      | • Input Source   | Monitor Sleep          |       | On   |  |  |  |
|      |                      | Color  | Screen Drop Down Level |       | 1/2 screen                                       |  |  |  |
|      |                      | Display  | Screen Off Color       |       | White  |  |  |  |
|      |                      | Audio  | Wake On Touch          |       | Off  |  |  |  |
|      |                      | E Menu   | Reset Personalization  |       |  |  |  |  |
|      |                      | ☆ Personalize  |                        |       |  |  |  |  |
|      |                      | H Others   |                        |       |  |  |  |  |
|      |                      |  |                        |       | -  |  |  |  |

 $\ensuremath{\text{Power Button}}$  Allows you to set the state of the power light to save energy.  $\ensuremath{\text{LED}}$ 

**USB** Allows you to enable or disable USB function during display standby mode.

NOTE: USB ON/OFF under standby mode is only available when the USB upstream cable is unplugged. This option will be greyed out when the USB upstream cable plugs in.

| Monitor<br>Sleep          | Select <b>Off</b> to turn off this feature.   |  |  |  |
|---------------------------|---|--|--|--|
| Screen Drop<br>Down Level | Allows you to set the Screen Drop Down level so that you can reach<br>the top of the image. |  |  |  |
|                           | Drop Down Level Options:  |  |  |  |
|                           | - 1/2 Screen  |  |  |  |
|                           | - 1/3 Screen  |  |  |  |
|                           | - 2/3 Screen  |  |  |  |

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| lcon | Menu and<br>Submenus          | Description   |   |  |  |  |  |
|------|-------------------------------|---|---|--|--|--|--|
|      | Screen Off<br>Color           | Allows you to set the Screen Off Color to White or black.   |   |  |  |  |  |
|      | Wake On<br>Touch              | Select <b>On</b> to turn on this feature.   |   |  |  |  |  |
|      | Reset<br>Persona-<br>lization | Restores shortcut   | keys to factory c   | lefaults.  |  |  |  |
|      | Other                         | Dell 75 Monitor         Image: Brightness/Contrast         Image: Display         Image: Display |   | <ul> <li>On</li> <li>Off</li> <li>Off</li> <li>M2T101</li> <li>10.0.50.100</li> <li>ABCDEFG</li> </ul> |  |  |  |
|      | Display Info                  | Displays the display  | _   |  |  |  |  |
|      | DDC/CI                        | adjust the display s<br>Select <b>Off</b> to turn   | settings using sof<br>off this feature.<br>e for best user ex | mmand Interface) allows you to<br>ftware on your computer.<br>perience and optimum                     |  |  |  |
|      |                               | disabled.<br>Do you wish to disa  |   | ing PC application will be<br>No   |  |  |  |

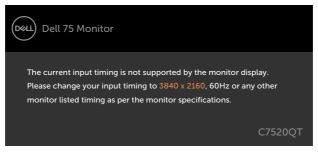
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| con | Menu and<br>Submenus | Description   |
|-----|----------------------|---|
|     | LCD<br>Conditioning  | Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run Select <b>On</b> to start the process. |
|     |                      | Dell 75 Monitor   |
|     |                      | This feature will help reduce minor cases of image retention.   |
|     |                      | Depending on the degree of image retention, the program may   |
|     |                      | take some time to run. Do you wish to continue?   |
|     |                      | Yes No  |
|     |                      | C7520QT   |
|     | Firmware             | Current Firmware version.   |
|     | IP Address           | Show IP Address.  |
|     | Service Tag          | Show Service Tag.   |
|     | Reset Others         | Restores other settings, such as <b>DDC/CI</b> , to factory defaults.   |
|     | Factory<br>Reset     | Restores all OSD settings to the factory defaults.  |

NOTE: This display has a built-in feature to automatically calibrate the brightness to compensate for LED aging.

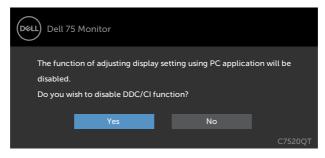
#### **OSD Warning Messages**

When the display does not support a particular resolution mode, you can see the following message:

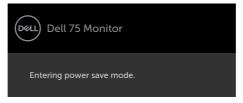


This means that the display cannot synchronize with the signal that it is receiving from the computer. See Display Specifications for the Horizontal and Vertical frequency ranges addressable by this display. Recommended mode is 3840 x 2160.

You can see the following message before the DDC/Cl function is disabled:

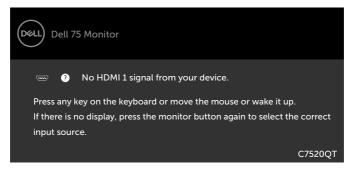


When the display enters the **Power Save** mode, the following message appears:

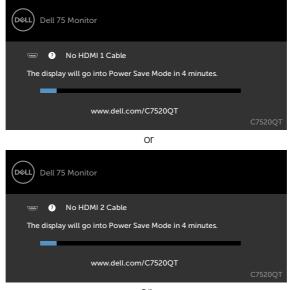




If you press any button other than the power button, the following messages will appear depending on the selected input:



If either HDMI 1, HDMI 2, HDMI 3, DP or VGA input is selected and the corresponding cable is not connected, a floating dialog box as shown below appears.



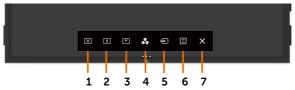
or



See Troubleshooting for more information.

## **Dell Web Management for Displays**

Before accessing the Dell Display Web Management feature, ensure the Ethernet is working normally.



#### • Ethernet Enable

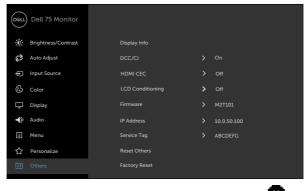
Touch and hold the **touch key 5** on the front panel for 4 seconds to turn on , A network icon  $\frac{1}{2}$  appears and is shown on the center for 4 seconds.

#### Ethernet Disable

Touch and hold the **touch key 5** on the front panel for 4 seconds to turn off , A network icon 🛃 appears and is shown on the center for 4 seconds.

To access the Dell Display Web Management tool you need to set the IP Addresses for your computer and the display.

**1.** Press the Menu key on the remote control to display the IP Address of the display, or by navigating to OSD Menu > Others. By default, the IP Address is 10.0.50.100



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**2.** In the computer's IP Properties tab, specify an IP Address by selecting Use the following IP Address and enter the following values: For IP Address: 10.0.50.101 and for Subnet Mask: 255.0.0.0 (leave all other entries as blanks).

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|                               | actimuticals if your network supports<br>and to ask your retwork administrator |
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|                               | CK CHAR  |

3. The IP Address configuration would now look like this:



To access and use the web management tool, follow these steps:

- **1.** Open a web browser and type the display's IP Address (10.0.50.100) in the address bar.
- 2. The log-in page opens. Enter the Administrator Password to continue.





3. The Home page opens:

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4. Click Network Settings tab to see the network settings.

| 💬   Monitor Web Management  |                                       |          |      |          |             | BAR P. B |
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|   |                                       |          |      |          |             |          |
|   |                                       |          |      |          |             |          |
|   |                                       |          |      |          |             |          |

5. Click Display Control to see the display's status.

| 🛞   Menber We  | b Management                         |               |  | 5-54 I- | 69 |
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**6.** Update **Firmware**. You can download the latest drivers from the Dell Support website at www.dell.com/support.

| 🛞   Monitor We   | h Management   |                         |                      | Length - | 6 |
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7. Upgrade firmware page and wait for 30 seconds.

**Upgrade Firmware** 





8. Finished. Click on button to proceed after 8 seconds.

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**9.** Click **Security** to set a password.

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10. Click Crestron to control interface.

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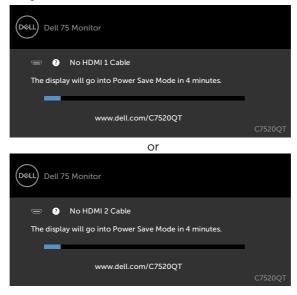
# MARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

## Self-Test

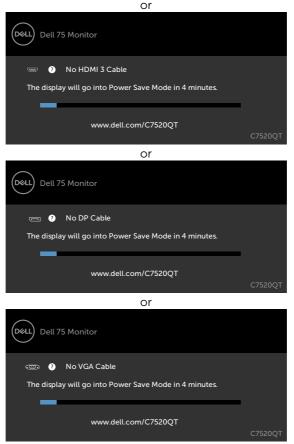
Your display provides a self-test feature that allows you to check whether your display is functioning properly. If your display and computer are properly connected but the display screen remains dark, run the display self-test by performing the following steps:

- 1. Turn off both your computer and the display.
- 2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove all digital and the analog cables from the back of computer.
- 3. Turn on the display.

The floating dialog box should appear on-screen (against a black background), if the display cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.







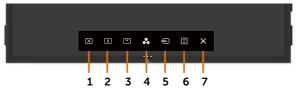
**4.** This box also appears during normal system operation, if the video cable becomes disconnected or damaged.

**5.** Turn off your display and reconnect the video cable; then turn on both your computer and the display.

If your display screen remains blank after you use the previous procedure, check your video controller and computer, because your display is functioning properly.

# **Built-in Diagnostics**

Your display has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your display, or with your computer and video card.



To run the built-in diagnostics:

- 1. Make sure that the screen is clean (no dust particles on the surface of the screen).
- Touch and hold for 5 seconds in lock Select Option. Touch the self-inspection icon for A gray screen appears.
- 3. Carefully inspect the screen for abnormalities.
- 4. Touch the front panel. The color of the screen changes to red.
- 5. Inspect the display for any abnormalities.
- 6. Repeat steps 4 and 5 to inspect the display in green, blue, black, white, and text screens.

The test is complete when the text screen appears. To exit, touch panel again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the display is functioning properly. Check the video card and computer.



# **Common Problems**

The following table contains general information about common display problems you might encounter and the possible solutions:



| Common<br>Symptoms        | What You<br>Experience                   | Possible Solutions  |
|---------------------------|--|---|
| No Video/Power<br>LED off | No picture                               | <ul> <li>Ensure that the video cable connecting the display<br/>and the computer is properly connected and secure.</li> <li>Verify that the power outlet is functioning properly<br/>using any other electrical equipment.</li> <li>Ensure that the power button is depressed fully.</li> <li>Ensure that the correct input source is selected in the<br/>Input Source menu.</li> </ul> |
| No Video/Power<br>LED on  | No picture or no<br>brightness           | <ul> <li>Increase brightness &amp; contrast controls via OSD.</li> <li>Perform display self-test feature check.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Run the built-in diagnostics.</li> <li>Ensure that the correct input source is selected in the Input Source menu.</li> </ul>  |
| Poor Focus                | Picture is fuzzy,<br>blurry, or ghosting | <ul> <li>Perform Auto Adjust via OSD.</li> <li>Adjust the Phase and Pixel Clock controls via OSD.</li> <li>Eliminate video extension cables.</li> <li>Reset the display to factory settings.</li> <li>Change the video resolution to the correct aspect ratio.</li> </ul>   |
| Shaky/Jittery Video       | Wavy picture or fine movement            | <ul> <li>Perform Auto Adjust via OSD.</li> <li>Adjust the Phase and Pixel Clock controls via OSD.</li> <li>Reset the display to factory settings.</li> <li>Check environmental factors.</li> <li>Relocate the display and test in another room.</li> </ul>  |
| Missing Pixels            | LCD screen has spots                     | <ul> <li>Cycle power on-off.</li> <li>Pixel that is permanently off is a natural defect<br/>that can occur in LCD technology.</li> <li>For more information on Dell Display Quality<br/>and Pixel Policy, see Dell Support site at:<br/>http://www.dell.com/support/monitors.</li> </ul>  |
| Stuck-on Pixels           | LCD screen has<br>bright spots           | <ul> <li>Cycle power On-Off.</li> <li>Pixel that is permanently off is a natural defect<br/>that can occur in LCD technology.</li> <li>For more information on Dell Display Quality<br/>and PixelPolicy, see Dell Support site at:<br/>http://www.dell.com/support/monitors.</li> </ul>   |

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| Common<br>Symptoms           | What You<br>Experience                 | Possible Solutions   |
|------------------------------|--|--|
| Brightness<br>Problems       | Picture too dim or<br>too bright       | <ul> <li>Reset the display to factory settings.</li> <li>Auto Adjust via OSD.</li> <li>Adjust brightness &amp; contrast controls via OSD.</li> </ul>   |
| Audio problem                | No Audio                               | <ul> <li>Check PC setting if the playback is correctly selected.</li> <li>Checking other video cables.</li> <li>Ensure that the Speaker is enabled via OSD</li> </ul>  |
| Geometric<br>Distortion      | Screen not centered correctly          | <ul> <li>Reset the display to factory settings.</li> <li>Auto Adjust via OSD.</li> <li>Adjust horizontal &amp; vertical controls via OSD.</li> </ul>   |
| Horizontal/Vertical<br>Lines | Screen has one or<br>more lines        | <ul> <li>Reset the display to factory settings.</li> <li>Perform Auto Adjust via OSD.</li> <li>Adjust Phase and Pixel Clock controls via OSD.</li> <li>Perform display self-test feature check and determine if these lines are also in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Run the built-in diagnostics.</li> </ul>             |
| Synchronization<br>Problems  | Screen is scrambled<br>or appears torn | <ul> <li>Reset the display to factory settings.</li> <li>Perform Auto Adjust via OSD.</li> <li>Adjust Phase and Pixel Clock controls via OSD.</li> <li>Perform display self-test feature check to determine if the scrambled screen appears in self-test mode.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Restart the computer in safe mode.</li> </ul> |
| Safety Related<br>Issues     | Visible signs of smoke or sparks       | <ul> <li>Do not perform any troubleshooting steps.</li> <li>Contact Dell immediately.</li> </ul>   |
| Intermittent<br>Problems     | Display<br>malfunctions on<br>& off    | <ul> <li>Ensure that the video cable connecting the display to<br/>the computer is connected properly and is secure.</li> <li>Reset the display to factory settings.</li> <li>Perform display self-test feature check to determine if<br/>the intermittent problem occurs in self-test mode.</li> </ul>  |
| Missing Color                | Picture missing color                  | <ul> <li>Perform display self-test.</li> <li>Ensure that the video cable connecting the display to<br/>the computer is connected properly and is secure.</li> <li>Check for bent or broken pins in the video cable<br/>connector.</li> </ul>   |
| Wrong Color                  | Picture color not<br>good              | <ul> <li>Change the settings of the Preset Modes in the Color<br/>menu OSD depending on the application.</li> <li>Adjust R/G/B value under Custom. Color in Color<br/>menu OSD.</li> <li>Change the Input Color Format to PC RGB or YPbPr<br/>in the Color menu OSD.</li> <li>Run the built-in diagnostics.</li> </ul>   |

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| Common<br>Symptoms  | What You<br>Experience   | Possible Solutions  |
|---|--|---|
| Image retention<br>from a static<br>image left on the<br>display for a long<br>period of time | Faint shadow<br>from the static<br>image displayed<br>appears on the<br>screen | <ul> <li>Use the Power Management feature to turn off<br/>the display at all times when not in use (for more<br/>information, see Power Management Modes).</li> <li>Alternatively, use a dynamically changing screensaver.</li> </ul> |
| Touchscreen non-<br>responsive  | Display cannot<br>wake on touch  | <ul> <li>Ensure Wake On Touch is enabled via OSD. Wake On<br/>Touch is default off.</li> </ul>  |

# **Product Specific Problems**

| Specific<br>Symptoms                                    | What You<br>Experience  | Possible Solutions  |
|---|---|---|
| Screen image is<br>too small                            | Image is centered<br>on screen, but<br>does not fill entire<br>viewing area | <ul> <li>Check the Aspect Ratio setting in the Display menu<br/>OSD.</li> <li>Reset the display to factory settings.</li> </ul>   |
| Cannot adjust<br>the display with<br>touch OSD          | OSD does not<br>appear on the<br>screen                                     | <ul> <li>Turn off the display, unplug the display power cable, plug it back, and then turn on the display.</li> <li>Check whether the OSD menu is locked. If yes, touch is icon for 4 seconds to unlock .</li> </ul>  |
| No Input Signal<br>when user<br>controls are<br>pressed | No picture, the<br>LED light is white                                       | <ul> <li>Check the signal source. Ensure the computer is not<br/>in the power saving mode by moving the mouse or<br/>pressing any key on the keyboard.</li> <li>Check whether the signal cable is plugged in properly.<br/>Re-plug the signal cable if necessary.</li> <li>Reset the computer or video player.</li> </ul> |
| The picture does<br>not fill the entire<br>screen       | The picture<br>cannot fill the<br>height or width of<br>the screen          | <ul> <li>Due to different video formats (aspect ratio) of DVDs, the display may display in full screen.</li> <li>Run the built-in diagnostics.</li> </ul>   |

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## **Touchscreen Problems**

| Specific<br>Symptoms                                | What You<br>Experience  | Possible Solutions  |
|---|---|---|
| Touch report<br>error                               | Touch function<br>miss alignment or<br>no touch function                          | <ul> <li>Use the Dell provided USB cable to connect your<br/>computer.</li> </ul>   |
|   |   | $\cdot$ Make sure the power cable has a ground pin.   |
|   |   | <ul> <li>Unplug and replug the power cable to allow<br/>initialization of the touch module.</li> </ul>                                      |
|   |   | <ul> <li>Make sure computer supports USB 2.0 or later.</li> </ul>   |
|   |   | <ul> <li>If the display cannot be detected by the computer,<br/>power off/on the monitor or unplug and replug the<br/>USB cable.</li> </ul> |
| Touchscreen<br>non-responsive in<br>power-save mode | Cannot wake<br>up display and<br>computer by<br>using touch in<br>power-save mode | Access Device Manager, expand HID Interface Device<br>under Human Device.   |
|   |   | • Right click HID- compliant device, click Properties and select the check-box to allow the device to wake the computer.                    |
|   |   | $\cdot$ Check Display OSD 'Wake on touch' setting is enabled.   |

## **Universal Serial Bus (USB) Specific Problems**

| Specific<br>Symptoms                        | What You<br>Experience   | Possible Solutions   |
|---|--|--|
| USB interface is not working                | USB peripherals<br>are not working   | <ul> <li>Check that your display is turned ON.</li> <li>Reconnect the upstream cable to your computer.</li> <li>Reconnect the USB peripherals (downstream connector).</li> <li>Switch off and then turn on the display again.</li> <li>Reboot the computer.</li> <li>Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.</li> </ul> |
| SuperSpeed USB<br>3.0 interface is<br>slow. | SuperSpeed USB<br>3.0 peripherals<br>working slowly or<br>not working at all | <ul> <li>Check that your computer is USB 3.0-capable.</li> <li>Some computers have USB 3.0, USB 2.0, and USB 1.1 ports. Ensure that the correct USB port is used.</li> <li>Reconnect the upstream cable to your computer.</li> <li>Reconnect the USB peripherals (downstream connector).</li> <li>Reboot the computer.</li> </ul>  |



| Specific<br>Symptoms  | What You<br>Experience  | Possible Solutions   |
|---|---|--|
| Wireless USB<br>peripherals stop<br>working when a<br>USB 3.0 device is<br>plugged in | Wireless USB<br>peripherals<br>responding slowly<br>or only working<br>as the distance<br>between itself<br>and its receiver<br>decreases | <ul> <li>Increase the distance between the USB 3.0 peripherals and the wireless USB receiver.</li> <li>Position your wireless USB receiver as close as possible to the wireless USB peripherals.</li> <li>Use a USB-extender cable to position the wireless USB receiver as far away as possible from the USB 3.0 port.</li> </ul> |
| USB is not<br>working   | No USB<br>functionalities   | Refer to input source and USB pairing table.   |

# **Ethernet Problems**

| Specific<br>Symptoms    | What You<br>Experience  | Possible Solutions  |
|-------------------------|---|---|
| Ethernet not<br>working | Dell Web<br>Management for<br>Displays Webpage<br>control is not<br>working | • Ensure that the Network cable connecting the Display is properly secured.   |
|                         |   | <ul> <li>Touch the icon 5 on the screen for 4 seconds to turn<br/>on , A network icon appears and is shown on the<br/>center for 4 seconds .</li> </ul> |
|                         |   | • Touch the icon 5 on the front panel for 4 seconds to turn off, A network icon 😭 appears and is shown on the center for 4 seconds.                     |
|                         |   |   |

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## Safety Instructions

For displays with glossy bezels the user should consider the placement of the display as the bezel may cause disturbing reflections from surrounding light and bright surfaces.



WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the Safety, Environmental, and Regulatory Information (SERI).

# FCC Notices (U.S. only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at www.dell.com/regulatory\_compliance.

## **Contacting Dell**

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.

#### To get online Display support content:

See www.dell.com/support/monitors.

#### To contact Dell for sales, technical support, or customer service issues:

- 1. Go to www.dell.com/support.
- 2. Verify your country or region in the Choose A Country/Region drop-down menu at the top-left corner of the page.
- 3. Click Contact Us next to the country dropdown.
- 4. Select the appropriate service or support link based on your need.
- 5. Choose the method of contacting Dell that is convenient for you.

# Setting Up Your Display

## Setting Display Resolution to 3840 x 2160 (maximum)

For best performance, set the display resolution to  $3840 \times 2160$  pixels by performing the following steps:

#### In Windows 7, Windows 8 or Windows 8.1:

- **1.** For Windows 8 or Windows 8.1 only, select the Desktop tile to switch to classic desktop.
- 2. Right-click on the desktop and click Screen Resolution.
- 3. Click the Dropdown list of the Screen Resolution and select 3840 x 2160.
- 4. Click OK.

#### In Windows 10:

- 1. Right-click on the desktop and click **Display Settings**.
- 2. Click Advanced display settings.
- 3. Click the dropdown list of Resolution and select 3840 x 2160.
- 4. Click Apply.

If you do not see the recommended resolution as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the given steps.

#### **Dell computer**

- 1. Go to www.dell.com/support, enter your service tag, and download the latest driver for your graphics card.
- **2.** After installing the drivers for your graphics adapter, attempt to set the resolution to  $3840 \times 2160$  again.



NOTE: If you are unable to set the resolution to  $3840 \times 2160$ , please contact Dell to inquire about a graphics adapter that supports these resolutions.

## Non-Dell computer

#### In Windows 7, Windows 8 or Windows 8.1:

- **1.** For Windows 8 or Windows 8.1 only, select the Desktop tile to switch to classic desktop.
- 2. Right-click on the desktop and click Personalization.
- 3. Click Change Display Settings.
- 4. Click Advanced Settings.
- Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
- **6.** Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com or http://www.NVIDIA.com).
- **7.** After installing the drivers for your graphics adapter, attempt to set the resolution to 3840 x 2160 again.

#### In Windows 10:

- 1. Right-click on the desktop and click **Display Settings**.
- 2. Click Advanced display settings.
- 3. Click Display adapter properties.
- **4.** Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
- **5.** Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com or http://www.NVIDIA.com).
- **6**. After installing the drivers for your graphics adapter, attempt to set the resolution to  $3840 \times 2160$  again.
- NOTE: If you are unable to set the recommended resolution, please contact the manufacturer of your computer or consider purchasing a graphics adapter that supports the video resolution.

# Maintenance Guidelines

## Cleaning Your Display



WARNING: Before cleaning the display, unplug the display power cable from the electrical outlet.

 $\wedge$  CAUTION: Read and follow the Safety Instructions before cleaning the display.

For best practices, follow these instructions in the list below while unpacking, cleaning, or handling your display:

- To clean your anti-static screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the anti-static coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- · Use a lightly-dampened, soft cloth to clean the display. Avoid using detergent of any kind as some detergents leave a milky film on the display.
- · If you notice white powder when you unpack your display, wipe it off with a cloth.
- Handle your display with care as a darker-colored display may get scratched and show white scuff marks more than a lighter- colored display.
- To help maintain the best image quality on your display, use a dynamically changing screen saver and turn off your display when not in use.