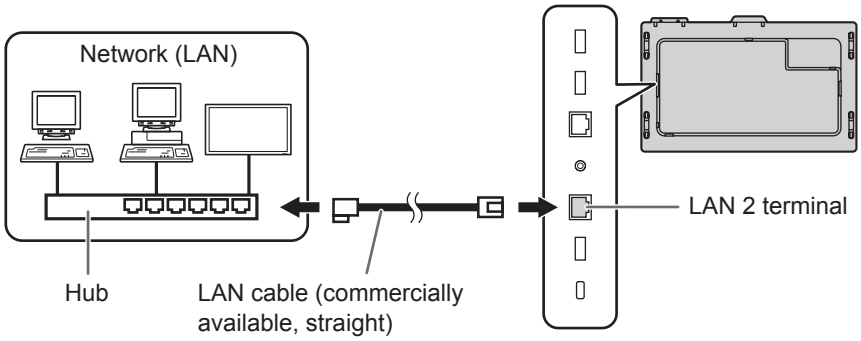
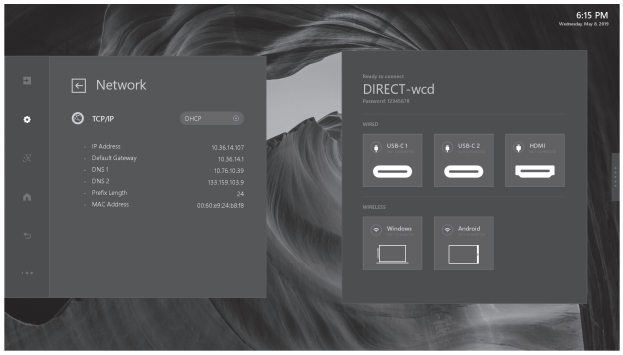
Network

This monitor can be connected to a LAN.
The connection requires a commercially available LAN cable (UTP cable, Category 5, straight through).



■Settings to connect to a LAN (LAN 2)



1. **TCP/IP**
   If your LAN has a DHCP server and you wish to obtain an address automatically, change this setting to DHCP.
   To set the address manually, set this to Manual.

   1.1 IP Address
   If the TCP/IP is set to Manual, specify an IP address.
   1.2 Default Gateway
   If the TCP/IP is set to Manual, specify a default gateway.
   1.3 DNS 1
   If the TCP/IP is set to Manual, specify a DNS.
   1.4 DNS 2
   If the TCP/IP is set to Manual, specify a DNS.
   1.5 Subnet Mask
   If the TCP/IP is set to Manual, specify a subnet mask.
   1.6 MAC Address
   Show the MAC Address.

2. **Proxy**
   If your LAN has a proxy server and you wish to use it, change this setting to Manual, otherwise set to None.

   2.1 Proxy Hostname
   If the Proxy is set to Manual, specify a proxy hostname.
   2.2 Proxy Port
   If the Proxy is set to Manual, specify a proxy port.

TIPS

- This monitor supports application software RoomView from Crestron Electronics, Inc.
  This is a function to connect a system developed by Crestron Electronics, Inc. which manages and controls multiple system devices connected to the network.
  For details of Crestron Connected, refer to the Crestron Electronics, Inc. website. (Provided only In English.)
  http://www.crestron.com/
  For the download of RoomView Express, refer to the Crestron Electronics, Inc. website. (Provided only In English.)
  http://www.crestron.com/getroomview

Troubleshooting

If you are experiencing any problem with your display, before calling for service, please review the following troubleshooting tips.

There is no picture or sound.

- The power LED is off.
  - Is power supplied to this monitor?
  - Is the power cord disconnected? (See page 15.)
  - Is the main power switch off? (See page 16.)
- The power LED lights amber.
  - This monitor is in standby mode. Turn on the power. (See page 16.)

Remote control does not work.

- Are the batteries inserted with polarity (+,-) aligned? (See page 15.)
- Are the batteries exhausted?
- Point the remote control unit toward the monitor's remote control sensor. (See page 15.)

There is a picture but no sound.

- Is the sound muted?
- Make sure the volume is not set to minimum.
- Are audio cables connected properly?

Unstable video.

- The signal may be incompatible.

The video from the HDMI input terminal does not appear properly.

- Use the supplied HDMI cable.
- If using a commercially available cable, does the HDMI cable support 4K, and is it HDMI standard compliant? The monitor will not work with cables that are not standard compliant.
- Is the input signal compatible with this monitor? (See page 33.)

Control buttons do not work.
There is no picture.

- Load noises from outside may be interfering with normal operation. Turn off the main power and turn it on after waiting at least 5 seconds, and then check the operation.

The touch panel does not respond.

- Is the USB cable connected properly?

The monitor makes a cracking sound.

- You may occasionally hear a cracking sound from the monitor. This happens when the cabinet slightly expands and contracts according to change in temperature. This does not affect the monitor's performance.

Specifications

■Product Specifications

Model		PN-CD701
LCD component		70" Class [69-1/2 inch (176.6 cm) diagonal] TFT LCD
Max. resolution (pixels)		3840 x 2160
Max. colors		Approx. 1.06 billion colors
Pixel pitch		0.401 mm (H) × 0.401 mm (V)
Brightness (typical)		350 cd/m^2 *1
Contrast ratio (typical)		4000: 1
Viewing angle		176° right/left/up/down (contrast ratio ≥ 10)
Screen active area inch (mm)		60-9/16 (W) x 34-1/16 (H) (1538.9 x 865.6)
Computer input signal		USB type C (alternate mode)
Input terminals	Video	HDMI x 1 USB Type C x 2
	Audio	3.5 mm mini stereo jack x 1
Output terminals	Video	USB Type C x 1
	Audio	3.5 mm mini stereo jack x 1
LAN terminal		10 / 100 / 1000 Mbps x 2
Speaker output		12 W + 12 W
Touch Panel	Detection method	Capacitive type
	Computer connector	USB (2.0 compliant) (Type B) x 1, USB Type C x 2
Wireless LAN		IEEE802.11ac/n/a/g/b compliant
Bluetooth		4.2 compliant Supported protocols: A2DP, AVRCP, GATT, GAP, HID
Power requirement		AC 100 V - 240 V, 4.2 A, 50/60 Hz
Operating temperature*2*3		41°F to 95°F (5°C to 35°C)
Operating humidity*3		20% to 80% (no condensation)
Power consumption (Standby mode)		370 W (2.0 W)
Dimensions (excluding protrusions) inch (mm)		Approx. 63-15/16 (W) x 3-9/16 (D) x 38-7/16 (H) (1623.5 x 90.0 x 976.5)
Weight lbs. (kg)		Approx. 143.3 (65)

*1 Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness.

*2 Temperature condition may change when using the monitor together with the optional equipments recommended by SHARP. In such cases, please check the temperature condition specified by the optional equipments.

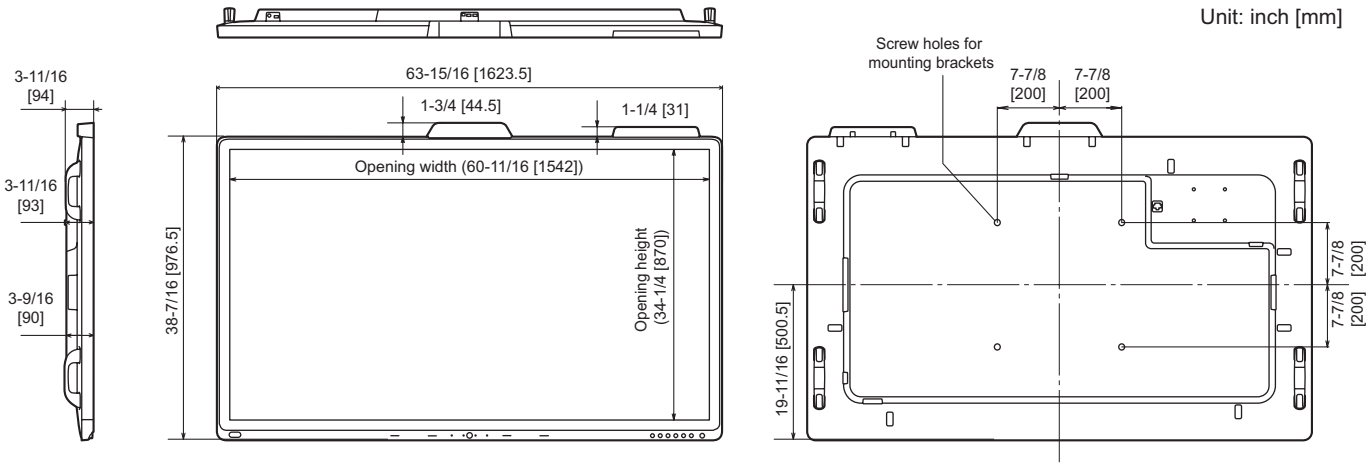
*3 In addition, check the requirements of the computer and other devices to be connected, and make sure that all requirements are satisfied.

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■Dimensional Drawings

Note that the values shown are approximate values.

Unit: inch [mm]



When mounting the monitor, be sure to use a wall-mount bracket that complies with the VESA-compatible mounting method. SHARP recommends using M6 screws and tighten the screws.
Note that screw hole depth of the monitor is 3/8 inch (10 mm). Loose mounting may cause the product to fall, resulting in serious personal injuries as well as damage to the product. The screw and hole should come together with over 5/16 inch (8 mm) length of thread. Use a bracket which has been approved for UL1678 standard, and which can endure at least 4 times or more the weight of the monitor.

■Compatible signal timing

Screen resolution		Vsync	HDMI	USB Type C
VESA	640 × 480	60Hz	Yes	Yes
		72Hz	Yes	Yes
		75Hz	Yes	Yes
	800 × 600	56Hz	-	-
		60Hz	Yes	Yes
		72Hz	Yes	Yes
		75Hz	Yes	Yes
	848 × 480	60Hz	-	-
	1024 × 768	60Hz	Yes	Yes
		70Hz	Yes	Yes
		75Hz	Yes	Yes
	1152 × 864	75Hz	Yes	Yes
	1280 × 768	60Hz	-	Yes
		75Hz	-	Yes
	1280 × 800	60Hz	Yes	Yes
	1280 × 960	60Hz	Yes	Yes
	1280 × 1024	60Hz	Yes	Yes
		75Hz	Yes	Yes
	1360 × 768	60Hz	Yes	Yes
	1400 × 1050	60Hz	Yes	Yes
	1440 × 900	60Hz	Yes	Yes
	1600 × 1200	60Hz	Yes	Yes
	1680 × 1050	60Hz	Yes	Yes
	1920 × 1200	60Hz	Yes	Yes
Wide	3840 × 2160	24Hz	Yes	Yes
		25Hz	Yes	Yes
		30Hz	Yes	Yes
		50Hz	Yes	Yes
		60Hz	Yes	Yes
	1280 × 720	60Hz	Yes	Yes
	1920 × 1080	60Hz	Yes	Yes

- Depending on the connected computer, images may not be displayed properly even if the compatible signal described above is input.
- The RGB range supports only the full range.

■Channels that can be used in wireless LAN

	Standard	Channel	Frequency band (center frequency)
USA	IEEE802.11b/g/n	1-13ch	2412-2472MHz
	IEEE802.11ac/a/n	36/40/44/48ch	5180-5240MHz
		149/153/157/161/165ch	5745-5825MHz
CANADA	IEEE802.11b/g/n	1-11ch	2412-2462MHz
	IEEE802.11ac/a/n	36/40/44/48ch	5180-5240MHz
		149/153/157/161/165ch	5745-5825MHz

This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz frequency range. FCC requires this product to be used indoors for frequency range 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.
High power radars are allocated as primary users of the 5.25 GHz to 5.35 GHz and 5.65 GHz to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

Intellectual Property Rights and Other Matters

■Information on the software license for this product

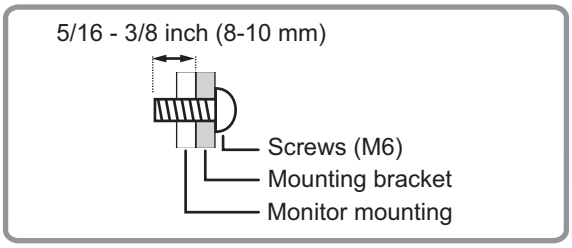
Software composition
The software included in this product is comprised of various software components whose individual copyrights are held by SHARP or by third parties.

Software developed by SHARP and open source software
The copyrights for the software components and various relevant documents included with this product that were developed or written by SHARP are owned by SHARP and are protected by the Copyright Act, international treaties, and other relevant laws. This product also makes use of freely distributed software and software components whose copyrights are held by third parties. These include software components covered by a GNU General Public License (hereafter GPL), a GNU Lesser General Public License (hereafter LGPL) or other license agreement.

Obtaining source code
Some of the open source software licensors require the distributor to provide the source code with the executable software components. GPL and LGPL include similar requirements. For information on obtaining the source code for the open source software and for obtaining the GPL, LGPL, and other license agreement information, visit the following website:
https://jp.sharp/business/lcd-display/support/download/source_e.html
We are unable to answer any questions about the source code for the open source software. The source code for the software components whose copyrights are held by SHARP is not distributed.

Mounting Precautions (For SHARP dealers and service engineers)

- When installing, removing or moving the monitor, ensure that this is carried out by at least 4 people.
- Be sure to use a wall-mount bracket designed or designated for mounting the monitor.
- This monitor is designed to be installed on a concrete wall or pillar. Reinforced work might be necessary for some materials such as plaster / thin plastic board / wood before starting installation.
  This monitor and bracket must be installed on a wall which can endure at least 4 times or more the weight of the monitor.
  Install by the most suitable method for the material and the structure.
- To attach a VESA-compliant mounting bracket, use M6 screws that are 5/16 inch (8 mm) to 3/8 inch (10 mm) longer than the thickness of the mounting bracket.



- Do not use an impact driver.
- After mounting, please carefully ensure the monitor is secure, and not able to come loose from the wall or mount.
- Do not use any screw holes other than those for mounting brackets, located on the rear of the monitor, for installation.
- When moving this monitor, be sure to hold it with the handles, the unit sides or the unit top. Do not grasp the screen, unit corner or speaker. This may cause product damage, failure, or injury.
- If you need to temporarily place the monitor on a table or other surface during installation, spread a thick soft cloth on the table to prevent damage to the screen and table.

SHARP®

SHARP CORPORATION

PN-CD701 Mu EN19G(1)

Federal Communications Commission (FCC) Interference Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

ISED

CAN ICES-3 (B)/NMB-3(B)

Canadian Compliance Statement This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage;
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

1. The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
3. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate.
4. The high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.
5. DFS (Dynamic Frequency Selection) products that operate in the bands 5250-5350 MHz, 5470-5600MHz, and 5650-5725MHz.

Mise en garde:

1. Le dispositif destiné à être utilisé dans la bande de fréquences 5150–5250 MHz est destiné uniquement à une utilisation en intérieur afin de réduire le risque de brouillage préjudiciable causé par les systèmes mobiles à satellites dans le même canal;
2. Pour les dispositifs avec une ou plusieurs antennes détachables, le gain d'antenne maximal autorisé pour les dispositifs des bandes 5250-5350 MHz et 5470-5725 MHz doit être tel que l'équipement respecte encore les normes e.i.r.p. limite;
3. Pour les dispositifs avec une ou plusieurs antennes détachables, le gain d'antenne maximal autorisé pour les dispositifs de la bande 5725-5850 MHz doit

être tel que l'équipement soit toujours conforme à la norme e.i.r.p. limites, le cas échéant.

4. Les radars à haute puissance sont attribués en tant qu'utilisateurs principaux (utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou des dommages aux dispositifs LE-LAN.
5. Produits DFS (Dynamic Frequency Selection) fonctionnant dans les bandes de fréquences 5250-533 MHz, 5470-5600 MHz et 5650-5725 MHz.

IMPORTANT NOTE:

Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.
Déclarationd'exposition aux radiations:
Cetéquipementestconforme aux limitesd'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cetéquipementdoitêtreinstallé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.