The following user manual is a draft version
The first pages are the corresponding regulatory notices which must be placed somewhere in the user manual according to the FCC and ISED.

Regulatory Information USA

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Class A device notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF exposure safety

The *UHD861-P* is a radio transmitter and receiver.

It is designed not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission.

The antenna must be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Regulatory Information Canada

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorisation de l'utilisateur d'utiliser l'équipement.

This device complies with Industry Canada's licence-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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF exposure safety

The *UHD861-P* is a radio transmitter and receiver.

It is designed not to exceed the emission limits for exposure to radio frequency (RF) energy set by the ISED.

The antenna must be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le UHD861-P est un émetteur et un récepteur radio.

Il est conçu pour ne pas dépasser les limites d'émission pour l'exposition à l'énergie radiofréquence (RF) établie par l'ISDE.

L'antenne doit être installé de façon à garder une distance minimale de 20 cm entre la source de rayonnements et votre corps.

L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenneou autre émetteur.

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

This Class A digital apparatus complies with Canadian ICES-003

Cet appareil numérique de clase A est conforme à la norme Canadienne ICES-003

CHXISTIE®

86" (218cm) UHD BIG SIZE MONITOR

USER MANUAL

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Important Safety Information



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

Please read these instructions fully and carefully before use and keep for future reference

WARNING: This device is not intended for use by persons (including children) without physical, sensory or mental capabilities, or lack of experience and/or knowledge unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety.

- · This product is for indoor use only.
- Use this product at an altitude of less than 2000 meters above the sea level and in dry locations and in regions with moderate or tropical climates.
- · Please keep this manual for further use.
- Unplug your product before starting to clean. Do not clean the product when it is on. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning. If that does not help, please use LCD display cleansers. Do not apply the cleaner directly on the product.
- To prevent breakdown, do not use non-advised accessories.
- Please do not place your product near wash basins, sinks, water pans, pools etc.
- Do not expose the product to dripping or splashing of liquids and do not place objects filled with liquids, such as vases, cups, etc. on or over the product (e.g., on shelves above the unit).
- Please leave at least 5 cm of free space between the product and walls or other furnitures for ventilation purposes.
- That product can only be started by the defined power source on its rating plate. For further information, please contact with your dealer.
- As a safety precaution, a three-wired grounding plug is given with the product. As a safety precaution, please do not make any change on the grounding plug. Always use earthed socket outlet for product.
- Please provide the plug and socket to supply the needed power for appliance.

- Please place the product in a position that electric cables cannot be affected by the operations on the product.
- Follow all warnings and instructions marked on the product.
- Follow the on screen instructions for operating the related features.
- To prevent the risk of fire or electric shock, please do not overuse the plugs and extension cords.
 Please do not open the lid of the monitor to service yourself. If the required service needs are not met by an authorized service, dangerous voltage and other risks may occur.
- If you will not use the product for a long period of time, unplug the power cord from the mains.
- Put the product on a well-ventilated place and prevent from bright light, overheat and damp.
- The product should be kept in 0 C° 40 C°.
 Otherwise, the appliance may be damaged permanently.
- Plug the appliance to a grounded outlet. Always use the grounded power cord supplied with your product. Manufacturer is not responsible for any damage caused unearthed usage.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Do not stay in contact with the parts of the product that become hot for long periods of time. Doing so may result in low-temperature burns.
- The LCD panel used in this product is made of glass.
 Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.
- Usage of the monitor must not be accompanied by fatal risks or dangers that, could lead directly to death, personal injury, severe physical damage or other loss, including nuclear reaction control in nuclear facility, medical life support system, and missile launch control in a weapon system.
- Do not expose the product to direct sunlight or do not place open flames such as lit candles on the top of or near the product.
- Do not place any heat sources such as electric heaters, radiators, etc. near the product.
- In order to prevent a potential electrical shock, in extreme weather (storms, lightning) disconnect the product from the mains.
- Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.

- Do not shake the product. Ensure that it stays in a balanced stance on its position.
- Do not throw or drop any object on your product.
- Do not interfere on your products screen or any other surface with a sharp object.
- Do not keep your product in a humid environment.
- Do not keep your product in an extremely cold environment.
- Do not keep your product in an extremely hot environment.
- Do not place the product on the floor and inclined surfaces
- To avoid danger of suffocation, keep plastic bags out of the reach of the babies, children and domestic animals.

Vent holes of the product

The vent holes are designed to provide the product to work constantly and prevent it from overheat. Do not block these openings in anyway. For the same reason, please do not place your product on beds, sofas, carpets and similar surfaces.

Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting any objects in the vents or openings of the product may cause electric shock, short circuit of the internal parts and/or fire. For the same reason, do not spill water or liquid on the product.

Repair

Unless a basic implementation on the product is specified by the producers' technical department on a document, do not repair your product by yourself. Otherwise, your guarantee may get suspended and you may risk your health or your product. In case of need, consult your authorized service.

- · When the cable is worn off or harmed.
- If the product has been dropped or the cabinet has been damaged.
- If the performance of the product is changed or the appliance needs to be repaired.
- When a liquid was spilled on the product or when objects have fallen into the product.
- When the product has been exposed to rain or water.
- When the product does not operate properly as described in the operating instructions.

Replacement parts

In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

Safety checks

Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

Wall mounting

When mounting the product on a wall, be sure to install the product according to the method recommended by the manufacturer.

- Read the instructions before mounting the product on the wall.
- The wall mount kit is optional. You can obtain from your local dealer, if not supplied with the product.
- Do not install the product on a ceiling or on an inclined wall.
- Use the specified wall mounting screws and other accessories.
- Tighten the wall mounting screws firmly to prevent the product from fall. Do not over-tighten the screws.

Power Cord

- The power cord is used to disconnect the product from the mains and therefore it must remain readily operable. If the product is not disconnected electrically from the mains, the device will still draw power for all situations even if the product is in standby mode or switched off.
- Use only the power cord supplied with the monitor.
- Do not damage the power cord nor place heavy objects on it, stretch it, over bend it or step on it.
 Also, do not add extension cords. Damage to the cord may result in fire or electric shock.
- When unplugging the appliance, always pull directly on the plug. Do not pull from the cable when unplugging the appliance.
- Do not use the power cord with a power tap. Adding an extension cord may lead to fire as a result of overheating.
- Do not remove or insert the power plug with wet hands. Doing so could result in electric shock.
- Unplug the power cord if it is not used for a long time.
- Do not attempt to repair the power cord if it is broken or malfunctioning. When damaged it must be replaced, this should only be done by qualified personnel.

Especially for child safety

- Don't allow children to climb on or play with the monitor.
- Don't place the monitor above furniture that can easily be used as steps.
- Remember that children can become excited while watching a program, especially on a "larger than life" monitor. Care should be taken to place or install the

monitor where it cannot be pushed, pulled over, or knocked down.

 Care should be taken to route all cords and cables connected to the monitor so that they cannot be pulled or grabbed by curious children.

Connections

Be sure to turn off the main power switch and disconnect the plug from the power outlet before connecting/disconnecting cables. Also, read the manual of the equipment to be connected.

Be careful not to confuse the input terminal with the output terminal when connecting cables. Accidentally reversing cables connected to the input and output terminals may cause malfunctions and other problems.

Positioning

If a monitor is positioned in an unstable or inclined location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple pre-cautions such as:

- Using fixing devices like wall mount brackets recommended or supplied by the manufacturer.
- Educating children about the dangers of climbing on furniture to reach the monitor or its controls. If your existing product is being retained and relocated, the same considerations as above should be applied

Transport and Shipping

- Your device must be kept in its original package to protect from damage to its accessories during transport and shipping.
- · Keep the product in normal position during transport.
- Do not drop the device during transport and protect it against impacts.
- Damages and faults that occur during transport after the delivery of the appliance to the customer are not included in the warranty cover.
- Product transportation, installation, repair and servicing must be done by qualified technical service personnel.

Intended Use

- This product is intended to be used in public places such as schools, offices, theatres, places of worship but are also suitable for household and similar general use.
- Product is only suitable for connecting commercial mains socket outlets. Do not connect product industrial socket outlets.

Foreseeable misuse and incorrect use

 For apparatus intended to be used in vehicles, ships or aircraft or at altitudes exceeding 2000m above sea level, for outdoor use or in general for the application other than mentioned in user manual additional requirements may be necessary.



CAUTION



Do not leave a static image displayed for prolonged period of time. If a static image is displayed continuously for a long period of time, that image may cause image sticking on the display. This condition is not permanent, but may require a considerable amount of operational display time to dissipate, depending upon the degree of image stick. 120 minutes of continuous motion display will eliminate most image sticking effects at normal room temperature (not lower than 10 C).

As the nature of the TFT technology, you may see some amount of bright, dark, red, green and blue dots and sparklings on the screen, those do not affect the performance of the computer and are not accepted as a defect.

A Warning

This is a class A. In a domestic environment this may cause radio interference in which case the user may be required to take adequate measures.

BATTERY SAFETY GUIDELINES

Used correctly, domestic batteries are a safe and dependable source of portable power. Problems can occur if they are misused or abused resulting in leakage or, in extreme cases, fire or explosion.

Here are some simple guidelines to safe battery use designed to eliminate any such problems.

- Take care to fit your batteries correctly, observing the plus and minus marks on the battery and appliance.
 Incorrect fitting can cause leakage or, in extreme cases, fire or even an explosion.
- Replace the whole set of batteries at one time, taking care not to mix old and new batteries or batteries of different types, since this can result in leakage or, in extreme cases, fire or even an explosion.
- Store unused batteries in their packaging and away from metal objects which may cause a short-circuit resulting in leakage or, in extreme cases, fire or even an explosion.
- Remove dead batteries from equipment and all batteries from equipment you know you are not going

to use for a long time. Otherwise the batteries may leak and cause damage.

- · Batteries must not be exposed to excessive heat such as sunshine, fire or the like.
- Never dispose of batteries in fire or with hazardous or flammable materials as this can cause them to explode. Please recycle dead batteries; do not put with the normal household waste.
- Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak, cause fire or even explode. There are special rechargeable batteries which are clearly marked as such
- · Supervise children if they are replacing batteries themselves in order to ensure these guidelines are followed
- Do not ingest the battery, Chemical Burn Hazard.
- This product or the accessories supplied with the product may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death
- · Remember that small button cell batteries such as used in some hearing aids, toys, games and other appliances, are easily swallowed by young children and this can be dangerous.
- · Keep new and used batteries away from children.
- Make sure battery compartments are secure. If the battery compartment does not close securely, stop using the product and keep it away from children.
- · Seek immediate medical attention if you believe batteries might have been swallowed or placed inside any part of the body.
- If leaked battery fluid gets on your skin or clothing, rinse immediately and thoroughly. If it gets into your eye, bathe your eye well rather than rubbing and seek medical treatment immediately. Leaked battery fluid that gets into your eye or your clothing may cause a skin irritation or damage your eye.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Markings on the Product

The following symbols are used on the product as a marker for restrictions and precautions and safety instructions. Each explanation shall be considered where the product bears related marking only. Note such information for security reasons.



Class II Equipment: This appliance is designed in such a way that it does not require a safety connection to electrical earth.



Class II Equipment With Functional Earthing: This appliance is designed in such a way that it does not require a safety

connection to electrical earth, the earth connection is used for functional purposes.



Protective Earth Connection: The marked terminal is intended for connection of the protective earthing conductor associated with the supply wiring.



Hazardous Live Terminal: The marked terminal(s) is/are hazardous live under normal operating conditions.



Caution, See Operating Instructions: The marked area(s) contain(s) user replaceable coin or button cell batteries.

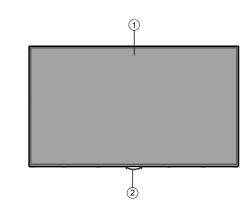
Any issues which are caused by customer mis-adjustment of any software including the operating system are not covered by the warranty.

Depending on the model you buy, the actual appearance of the product may differ from the images used in this manual.

General View

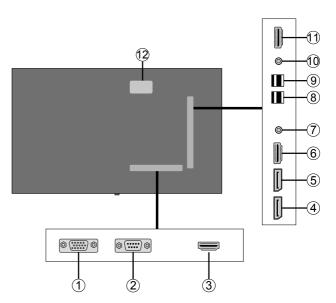
Front Side

- 1. LCD Panel
- 2. Brand Logo



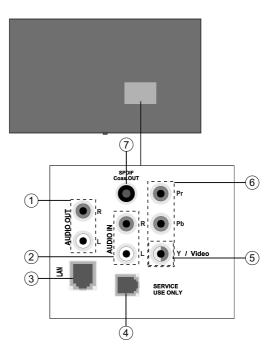
Rear Side (1)

- 1. VGA
- 2. RS232
- **3.** HDMI 1
- 4. Display Port Input
- 5. Display Port Output
- 6. HDMI 2
- 7. Headphone
- 8. USB (2.0)
- **9.** USB (3.0)
- 10. IR Input
- 11. HDMI Out
- 12. Internal USB Compartment



Rear Side (2)

- 1. Audio Out
- 2. Audio In
- 3. Ethernet
- 4. RJ12 (service use only)
- 5. Video In
- 6. YPbPr
- 7. SPDIF Coaxial Out



Control Buttons on the Display

To turn on the Display: Press the centre of the joystick in, the Display will turn on.

To turn the Display off: Press the centre of the joystick in and hold it down for a few seconds, the Display will turn into standby mode.

To change source: Press the centre of the joystick in, the sources list will appear on the screen. Scroll through the available sources by pushing the joystick up or down.

To change volume: Increase the volume by pushing the joystick right. Decrease the volume by pushing the joystick left.

Note: Main menu OSD cannot be displayed via joystick.



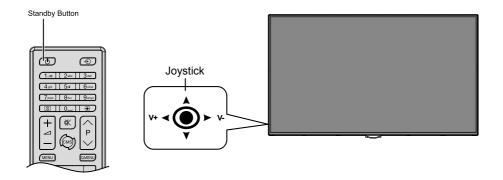
Connecting the IR Receiver

Before plugging the Display into the mains supply, connect the supplied IR receiver to the IR input on the Display. Place the IR receiver in sight of your own remote control. Simply operate your remote control whilst pointed at the IR receiver and it will relay the control signal to your Display.



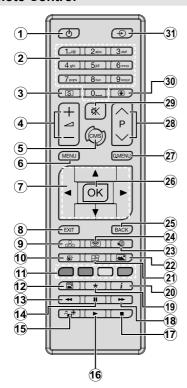
Turning the Display On/Off

Press the **Standby** button on the remote or on rear left side of the Display to switch it on from standby or to switch it into standby mode.



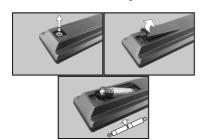
LED Status	Status of the monitor
Power LED not lit	Power on
Power LED lit	Power off (Standby mode)
Power LED flashing (slow)	Scheduler active
Power LED flashing (fast)	Power up/down and software update

Remote Control



Inserting the Batteries into the Remote

Remove the screw that secure the battery compartment cover on the back side of the remote control first. Lift the cover gently. Insert two AAA batteries. Make sure the (+) and (-) signs match (observe correct polarity). Place the cover back on. Then screw the cover back on again.



- 1. Standby: Switches On / Off the Display
- 2. Numeric buttons: Enters a number or a letter in the text box on the screen
- 3. Signage: Displays Signage Settings menu
- 4. Volume +/-: Increases or decreases the volume
- CMS: Opens the predefined Start url (in Signage Settings>Link options menu). Press and hold 3 seconds to open the predefined Settings url (in Signage Settings>Link options menu).
- 6. Menu: Displays the main menu
- 7. Directional buttons: Helps navigate menus, content etc.
- Exit: Closes and exits from displayed menus or returns to previous screen
- 9. Network: Displays Network/Internet Settings menu
- 10. Sound: Displays Sound Settings menu
- Coloured Buttons: Follow the on-screen instructions for coloured button functions
- 12. Picture Mode: Cycles between picture modes
- Rapid reverse: Moves frames backwards in media such as movies
- 14. Pause: Pauses the media being played
- 15. Media browser: Opens the media browsing screen
- 16. Play: Starts to play selected media
- 17. Stop: Stops the media being played
- **18. Rapid advance:** Moves frames forward in media such as movies
- 19. No function
- 20. Info: Displays information about on-screen content
- 21. Video Wall: Displays Video Wall Settings menu
- 22. Picture: Displays Picture Settings menu
- 23. Internet: Opens the predefined Open browser initial page (in Signage Settings>Link options menu).
- Wireless Display: Opens the wireless display connection screen
- 25. Back/Return: Returns to previous screen
- 26. OK: Confirms user selections
- 27. Quick Menu: Displays a list of menus for quick access
- 28. No function
- 29. Mute: Completely turns off the volume of the Display
- 30. Screen: Changes the aspect ratio of the screen
- 31. Source: Shows all available content sources

First Time Installation

When turned on for the first time, the language selection screen will be displayed. Select the desired language and press **OK**.

On the next screen, set your country preference and press **OK** to continue.

You will be asked to set and confirm a PIN at this point. For some **Country** options, the PIN cannot be set to **0000**, in this case you need to enter another 4-digit number combination. You have to enter this PIN if you are asked to enter a PIN for any menu operation later.

The Signage Settings menu will be displayed next. Set ID, OSD Orientation, Auto software update options can be configured using this menu. Model name, Serial number and Software version options are for information only. They will be grayed out and not selectable. Refer to the Signage Settings Menu Contents section for more information on the options of this menu. While this menu is displayed on the screen you can copy database files from a connected USB device to the Display by pressing the Yellow button. You can also save the model information data of the Display to a connected USB device by pressing the Blue button. After the settings are completed, press OK to continue.

On the next screen, the **Network/Internet Settings** menu will be displayed. Please refer to **Connectivity** section to configure a wired or a wireless connection. After the settings are completed press **OK** button to continue. To skip to the next step without doing anything press the **Rapid advance** button.

The First Time Installation is completed.

To repeat this process and reset the Display's settings to the factory defaults enter the **Signage Settings** menu, highlight **First time installation** and press **OK**. You will be asked to enter the PIN that you have defined in the **First Time Installation**. If the correct PIN is entered a confirmation message will be displayed asking whether you want to delete all settings and reset the Display. Select **Yes** and press **OK** to confirm.

Note: Do not turn off the Display while initializing first time installation. Note that, some options may not be available depending on the country selection.

Media Playback via USB Input

Note: If internal USB device (*) is inserted and external device is also inserted, media player will use the external device only.

You can connect 2.5" and 3.5" inch (hdd with external power supply) external hard disk drives or USB memory stick to your Display by using the USB input/s of the Display.

IMPORTANT! Back up the files on your storage devices before connecting them to the Display. Manufacturer will not be responsible for any file

damage or data loss. Certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this Display. The Display supports FAT32 and NTFS disk formatting.

Wait a little while before each plugging and unplugging as the player may still be reading files. Failure to do so may cause physical damage to the USB player and the USB device itself. Do not pull out your drive while playing a file.

You can use USB hubs with your Display's USB input/s. External power supplied USB hubs are recommended in such a case.

It is recommended to use the Display's USB input/s directly, if you are going to connect a USB hard disk.

Note: When viewing image files the **Media Browser** menu can only display 1000 image files stored on the connected USB device.

Media Browser Menu

You can play photo, music and movie files stored on a USB disk by connecting it to your Display. Connect a USB disk to one of the USB inputs located on the side of the Display. Pressing the **Menu** button while in the **Media Browser** mode will access the **Picture**, **Sound** and **Settings** menu options. Pressing the **Menu** button again will exit from this screen. You can set your **Media Browser** preferences by using the **Settings** menu.

Loop/Shuffle Mode Operation			
Start playback with the Play button and activate	All files in the list will be contin- uously played in original order		
Start playback with the OK button and activate	The same file will be played continuously (repeat)		
Start playback with the Play button and activate	All files in the list will be played once in random order		
Start playback with the Play button and activate ,	All files in the list will be continuously played in the same random order.		

USB Auto Play Feature

USB AutoPlay feature is to start playing the media content in removable device, automatically. It uses the **Media Browser**. The media content types have different priorities in order to be played. The reducing priority order is as Photo, Video and Audio. That means, if there is Photo content in the root directory of the removable device, MediaBrower will play the Photos in a sequence (in file name order) instead of Video or Audio files. If not, it will be checked for Video content and as last Audio.

This feature will only work if all of the following circumstances occur:

- · The USB device is plugged in.
- Auto Play option is enabled. It is placed in the Media Browser>Settings menu.

Failover Feature

If **No Signal** option in the **Signage Settings** menu is set as **Failover** the Display checks the connected USB device for available files to play. If no playable files are available or there is no USB device connected to the Display, the No Signal image will be displayed and the Display will turn itself off after a period of 5 minutes. If there isn't any No Signal Image available, No Signal OSD will be displayed on the screen and the Display will turn itself off after a period of 5 minutes.

Note: The setting of the **Auto Play** option in the **Media Browser>Settings** menu is not important, in Failover mode it will function anyway.

CEC and CEC RC Passthrough

This function allows to control the CEC-enabled devices, that are connected through HDMI ports by using the remote control of the Display.

The CEC option in the System>Settings>More menu should be set as Enabled at first. Press the Source button and select the HDMI input of the connected CEC device from the Sources List menu. When new CEC source device is connected, it will be listed in source menu with its own name instead of the connected HDMI ports name(such as DVD Player, Recorder 1 etc.).

The Display remote is automatically able to perform the main functions after the connected HDMI source has been selected

To terminate this operation and control the Display via the remote again, press the **Quick Menu** button on the remote if available, highlight the **CEC RC Passthrough** and set as **Off** by pressing Left or Right button. If the **Quick Menu** button is not available press and hold the "0-Zero" button on the remote control for 3 seconds. This feature(**CEC**) can also be enabled or disabled under the **System>Settings>More** menu.

The Display supports also ARC(Audio Return Channel) feature. This feature is an audio link meant to replace other cables between the Display and the audio system (AVV receiver or speaker system).

When ARC is active, Display does not mute its other audio outputs automatically. So you need to decrease Display volume to zero manually, if you want to hear audio from connected audio device only (same as other optical or co-axial digital audio outputs). If you want to change connected device's volume level, you should select that device from the source list. In that case volume control keys are directed to connected audio device.

Note: ARC is supported only via the HDMI1 input.

System Audio Control

Allows an Audio Amplifier/Receiver to be used with the Display. The volume can be controlled using the remote control of the Display. To activate this feature set the

Speakers option in the **System>Settings>More** menu as **Amplifier**. The Display speakers will be muted and the sound of the watched source will be provided from the connected sound system.

Note: The audio device should support System Audio Control feature and **CEC** option should be set as **Enabled**.

Usage of the Start URL

- Create a file named "starturl.txt" in the root directory of any USB storage device. Make sure that the extension is "txt".
- Open this file with a text editor software such as Notepad.
- Write the desired URL (for example, www.starturl. com) in the file and save changes.
- Connect the USB strorage device to the Display.
 Highlight USB Operations option in the Signage Settings menu and press OK.
- Switch the Display off and then switch it on again.

Note: You can check if the Start URL have the desired link from the **Signage Settings>Link options** menu.

Display Menu Contents

Sy	System - Picture Menu Contents			
Mode		You can change the picture mode to suit your preference or requirements. Picture mode can be set to one of these options: Text, Game, Sports, Signage and Natural .		
Contrast		Adjusts the light and dark values on the screen.		
Br	ightness	Adjusts the brightness values on the screen.		
Sh	arpness	Sets the sharpness value for the objects displayed on the screen.		
Co	lour	Sets the colour value, adjusting the colours.		
En	ergy Saving	For setting the Energy Saving to Custom, Minimum, Medium, Maximum, Auto, Screen Off or Off. Note: Available options may differ depending on the selected Mode.		
	Backlight	This setting controls the backlight level. The backlight function will be inactive if the Energy Saving is set to an option other then Custom .		
Ad	vanced Settings			
	Dynamic Contrast	You can change the dynamic contrast ratio to desired value.		
	Noise Reduction	If the signal is weak and the picture is noisy, use the Noise Reduction setting to reduce the amount of noise.		
	Colour Temp	Sets the desired colour temperature value. Cool (1300K), Normal (9300K) and Warm (8500K) options are available.		
	Picture Zoom	Sets the desired image size format.		
Movie Sense		Press left/right buttons to set Movie Sense to Low , Medium , High or Off . While Movie Sense is active, it will optimize the Display's video settings for motional images to acquire a better quality and readability. When Movie Sense option is set to Low , Medium or High , Movie Sense demo option will be available. If one of these options is selected and if you press OK button, then the demo mode starts. While demo mode is active, the screen will be divided into two sections, one displaying the movie sense activity, the other displaying the normal settings for Display screen. Note: This feature may not be available depending on the model of your unit.		
	Film Mode	Films are recorded at a different number of frames per second. Turn this feature on when you are		
	1 IIII WOUE	watching films to see the fast motion scenes clearly.		
	RGB Gain	Adjust the strength of the red, green and blue colors. You can use this feature for fine adjustment of white balance in the picture.		
	HDMI Full Range	While watching from a HDMl source, this feature will be visible. You can use this feature to enhance blackness in the picture.		
PC	Position	Appears only when the input source is set to VGA/PC.		
	Autoposition	Automatically optimizes the display. Press OK to optimize.		
H Position V Position Dot Clock		This item shifts the image horizontally to the right hand side or left hand side of the screen.		
		This item shifts the image vertically towards the top or bottom of the screen.		
		Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.		
	Phase	Depending on the input source(computer etc.) you may see a hazy or noisy picture on the screen. You can use phase to get a clearer picture by trial and error.		
Re	set	Resets the picture settings to factory default settings (except Game mode).		
Wh	While in VGA (PC) mode, some items in Picture menu will be unavailable. Instead, VGA mode settings will be added to the Picture			

While in VGA (PC) mode, some items in **Picture** menu will be unavailable. Instead, VGA mode settings will be added to the **Picture Settings** while in PC mode.

System - Sound Menu Contents			
Volume	Adjusts the volume level.		
Equalizer	Selects the equalizer mode. Custom settings can be made only when in User mode.		
Balance	Adjusts whether the sound comes from the left or right speaker.		
Headphone	Sets headphone volume. Please ensure before using headphones that the headphone volume is set to a low level, to prevent damage to your hearing. Only available if Headphone/Lineout option is set to Headphone .		
Audio Link	Press OK to open the Audio Link menu screen. Using this screen you can discover and connect the sound devices to your Display wirelessly.		
AVL (Automatic Volume Limiting)	Sets the sound to obtain fixed output level between sources.		
Headphone/Lineout	When you connect an external amplifier to your Display using the headphone jack, you can select this option as Lineout . If you have connected headphones to the Display, set this option as Headphone . Please ensure before using headphones that this menu item is set to Headphone . If it is set to Lineout , the output from the headphone socket will be set to maximum which could damage your hearing.		
Digital Out	Sets digital out audio type. PCM and Compressed options are available.		
Bass Gain Controls the bass gain level. Use Left or Right button to set. Note: This feature may not be available depending on the model of your unit.			

Sy	System - Settings Menu Contents		
La	Language Sets the OSD menu language preference.		
Da	Date/Time Sets date and time.		
So	Sources Enables or disables selected source options.		
	twork/Internet ttings	Displays network/internet settings.	
Мо	re	Displays other setting options of the Display.	
	Menu Timeout	Changes timeout duration for menu screens.	
	Standby Led	Enables or disables the functionality of the standby led. If disabled the led will not function.	
	Software upgrade	Ensures that your Display has the latest firmware. Press OK to see the menu options.	
Audio Video Sharing feature allows you to share files stored on your smartphon pc. If you have a compatible smartphone or tablet pc and the appropriate software you can share/play photos on your Display. See instructions of your sharing software information. Audio Video Sharing mode will not be available with internet por This setting configures the power up mode preference. Last State, Always Standby options are available. CEC With this setting you can enable and disable CEC functionality completely. or Right button to enable or disable the feature. This function allows the connected HDMI-CEC compatible device to turn on the connected HDMI-CEC conne		Displays current software version.	
		Sets the desired time for the Display to automatically go into standby mode when not being operated.	
		Audio Video Sharing feature allows you to share files stored on your smartphone or tablet pc. If you have a compatible smartphone or tablet pc and the appropriate software is installed, you can share/play photos on your Display. See instructions of your sharing software for more information. Audio Video Sharing mode will not be available with internet portal feature.	
		This setting configures the power up mode preference. Last State, Always On and Standby options are available.	
		With this setting you can enable and disable CEC functionality completely. Press Left or Right button to enable or disable the feature.	
		This function allows the connected HDMI-CEC compatible device to turn on the Display and switch to its input source automatically. Press Left or Right button to enable or disable the feature.	

Speakers	To hear the Display audio from the connected compatible audio device set as Amplifier . You can use the remote control of the Display to control the volume of the audio device.
DP Stream Setting (*)	Sets the DisplayPort stream type. MST and SST options are available. (*) This menu item appears only when the input source is set to DP.
Smart Remote	Press OK to open the Smart Remote menu screen. Using this screen you can discover and connect the remote controller devices to your Display wirelessly.
Quickstandby	If this feature is enabled the Display can be turned on again with the RS232 and Lan commands if it is turned off through it. Press Left or Right button to enable or disable the feature.

Signage Settings Menu Contents				
Set ID	Sets the device ID. You can select a value between 0-100 using the numeric buttons on the remote in order to identify your Display.			
OSD Orientation	Sets the OSD (On Screen Display) rotation of your Display. Landscape and Portrait options are available.			
Software upgrade	Displays current software version. Press OK to see the Upgrade options menu. You can use these options to start a manual search for software updates and set your automatic scan preference.			
Serial number	Displays serial number of the unit. (Cannot changed by user)			
Model name	Displays model name of the unit. (Cannot changed by user)			
Save model information	Copies the model information data of the unit to a connected USB device.			
Clone to USB	Copies the database files from the unit to a connected USB device.			
Clone from USB	Copies the database files from a connected USB device to the unit.			
Internal USB operations	Copies files from internal USB to the unit. Only available when internal USB device is connected.			
Video Wall Settings	Press OK to open the Video Wall Settings menu screen. Row Count, Column Count, Cell and Offset options are available.			
Power Up Mode	Configures the power up mode preference. Last state, Always on and Standby options are available.			
Quick Standy If this feature is enabled the Display can be turned on again with the RS232 at commands if it is turned off through it. Press Left or Right button to enable or the feature.				
	Press OK to open the OPS Settings menu screen. Three sub-menu options are available.			
	OPS Information: Displays read-only information about the OPS unit, if supported.			
OPS Settings	OPS Status: Displays whether the OPS module is on or off. Allows the change of status via soft PSON signal (0.5s)			
	Powerdown: Turns the OPS off via hard PSON signal (5s)			
	Note: This menu will not be available if OPS is not supported or not connected to the unit.			
Copy app cache from USB	Copies app cache data from a connected USB device to the unit. Note: This feature may not be available depending on the model of your unit.			
Scheduler Settings	Press OK to open the Scheduler Settings menu screen. Set the Scheduler option as On by using the Left/Right directional buttons. Using the sub-menu options you can set the unit to turn on automatically at defined time with the defined input source setting. It can also be set to turn off at defined time. If the Source option is set as Last State , the input source will not be changed at the power-up. If the Source option is set as USB , the media files in the connected USB device will be played back automatically as explained in the section entitled ' USB Auto Play Feature '.			

Link options	Press OK to open the Link Options menu screen. Current Start url and Settings url links will be displayed. These items are for information only and not selectable. Open browser initial page and NTP server link preferences can be configured using the related options.		
Pixel shift	Enables or disables pixel shifting. This option can be used to avoid image retention (after image effects) that can occur when displaying fixed patterns or still images for a long periods of time. If enabled, the picture and OSD (On-Screen Display) will be shifted at specified time intervals.		
USB Information	Press OK to open the USB information menu screen. Current Total space and Free space informations of the connected USB device will be displayed. You can also format the connected USB device using the Format Disk option in this menu (FAT32 format only).		
Power on Delay	Sets a delay value at power on. This value can be set from 0 to 2000 ms in steps of 100 ms. The Display will turn on after the set delay time is expired.		
USB operations	Highlight and press OK to perform USB operations.		
	Sets the behavior preference of the Display, when no signal is detected from the currently set input source. Failover and Input Search options are available. If Failover is selected the Display checks the connected USB device for available files to play. If no playable files are available or there is no USB device connected to the Display, the No Signal image will be displayed. If there isn't any No Signal Image available, No		
No Signal	Signal OSD will be displayed on the screen. The setting of the Auto Play option in the Media Browser>Settings menu is not important, in Failover mode it will function anyway. If Input Search is selected the Display will search all available input sources consecutively		
	to find signal. If no signal is detected from other available sources, No Signal OSD will be displayed and the Display will turn itself off after a period of 30 seconds.		
No signal Power off	When enabled the Display will turn itself off after a period of 5 minutes, if no signal is received from the selected source. This feature will only work if all of the following circumstances occur: -No Signal option is set as Failover.		
	USB device is not connected to the Display / USB device is connected but there are no playable files installed in the USB device.		
Auto launch	Configures the auto launch preference. CMS(Start url), Open Browser(Open Browser initial page) and Disabled options are available.		
Last Status	Set as On to enable the Display to reopen with the closing status.		
Panel Lock	Set as Off to prohibit the use of the buttons on the Display.		
RCU Inhibit Set as On to inhibit the use of the remote. Remote control will function mode independently from the setting of this option. If this option is set the Volume Up/Down, Numeric Buttons and the Standby button on the functional.			
Volume Settings	Press OK to see available menu options.		
USB Option	Set as Off to disable the USB ports on the Display. You can also set this option as 5V to provide 5 volts power over USB. In this case it will still not be available to browse the USB content via Media Browser feature of the Display.		
Boot Up Picture mode	Configures the picture mode preference at power on. If set as Off the last set picture mode will be used at power on.		
UART 0	Select ASCII/HEX protocol for UART 0. Default value is ASCII. There is no need to restart the Display after selection in order to work with the protocols correctly. If the selection is changed, the latest selected protocol will be preserved and started when the Display is booted up. Note that ASCII/HEX selection is not working while debug logs are enabled. If it is wrongly changed to HEX while debug logs are enabled, revert the selection to ASCII and reboot the Display in order to correct the debug logs and the ASCII protocol behaviour.		
	Also note that HEX protocol will work with the baud rate value 19200 for UART0		

UART 1	Select ASCII/HEX protocol for UART 1. Default value is HEX. There is no need to restart the Display after selection in order to work with the protocols correctly. If the selection is changed, the latest selected protocol will be preserved and started when the Display is booted up. Note that ASCII/HEX selection is always working as expected. It does not matter if the debug logs are enabled or not. Also note that HEX protocol will work with the baud rate value 9600 for UART1	
TV Live Time Displays the duration of life of the unit.		
Reset to Default Values Highlight this option and press the OK button on the remote to return default settings.		
First time installation	Highlight and press OK to perform First Time Installation and reset all settings to factory settings. You will need to enter the correct PIN to carry out this operation. *Note: Enter the PIN you have defined during the First Time Installation process.	

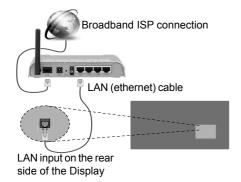
Connectivity

To configure wired or wireless settings please refer to the **Network/Internet Settings** section in the **System>Settings** menu.

Wired Connectivity

To Connect to a Wired Network

- You must have a modem/router connected to an active broadband connection.
- Connect your Display to your modem/router via an ethernet cable. There is a LAN port at the rear (back) of your Display.



Configuring Wired Device Settings Network Type

The **Network Type** can be selected as **Wired Device**, **Wireless Device** or **Disabled**, in accordance with the active connection to the Display. Select this as **Wired Device** if you are connecting via an ethernet.

Internet Speed Test

Highlight **Internet Speed Test** and press the **OK** button. Display will check the internet connection bandwidth and display the result when complete.

Advanced Settings

Highlight Advanced Settings and press the OK button. On the next screen you can change the IP and DNS settings of the Display. Highlight the desired one and press Left or Right button to change the setting from Automatic to Manual. Now you can enter the Manual IP and / or Manual DNS values. Select the related item in the drop down menu and enter the new values using the numeric buttons on the remote. Press the OK button to save settings when complete.

Wireless Connectivity

To Connect to a Wireless Network

The Display cannot connect to the networks with a hidden SSID (wireless network name). To make your

modem's SSID visible, you should change your SSID settings via the modem's software.



- A Wireless-N router (IEEE 802.11a/b/g/n) with simultaneous 2.4 and 5 GHz bands is designed to increase bandwidth. These are optimized for smoother and faster HD video streaming, file transfers and wireless gaming.
- The frequency and channel differ depending on the area.
- The transmission speed differs depending on the distance and number of obstructions between the transmission products, the configuration of these products, the radio wave conditions, the line traffic and the products that you use. The transmission may also be cut off or may get disconnected depending on the radio wave conditions, DECT phones or any other WiFi 11b appliances. The standard values of the transmission speed are the theoretical maximum values for the wireless standards. They are not the actual speeds of data transmission.
- The location where the transmission is most effective differs depending on the usage environment.
- The Wireless feature of the Display supports 802.11 a,b,g & n type modems. It is highly recommended that you should use the IEEE 802.11n communication protocol in order to avoid any possible problems while watching videos.
- You must change your modem's SSID when there are any other modems around with the same SSID. You can encounter connection problems otherwise. Use a wired connection if you experience problems with a wireless connection.

Configuring Wireless Device Settings

Open the **Network/Internet Settings** menu and select **Network Type** as **Wireless Device** to start connection process.

The Display will scan the wireless networks automatically. A list of available networks will be displayed. Please select your desired network from the list.

Note: If the modem supports N mode, you should set N mode settings.

If the selected network is protected with a password, please enter the correct key by using the virtual keyboard. You can use this keyboard via the directional buttons and the **OK** button on the remote control.

Wait until the IP address is shown on the screen.

This means that the connection is now established. To disconnect from a wireless network, highlight **Network Type** and press Left or Right buttons to set as **Disabled**.

If your router has WPS (Wi-Fi Protected Setup) button, you can directly connect your Display to the modem/ router without entering a password or adding the network first. Highlight the **Press WPS on your wifi router** option and press the **OK** button. Then press the WPS button on your router/modem to connect.

Highlight Internet Speed Test and press the OK button to check your internet connection speed. Highlight Advanced Settings and press the OK button to open the advanced setting menu. Use directional and numeric buttons to set. Press the OK button to save settings when complete.

Other Information

The status of the connection will be displayed as **Connected** or **Not Connected** and the current IP address, if a connection is established.

Connecting to your mobile device via WiFi

- If your mobile device has WiFi feature, you can connect it to your Display via a router, in order to access the content in your device. For this, your mobile device must have an appropriate sharing software.
- Connect to your router following the steps stated above in the Wireless Connectivity section.
- Afterwards, engage your mobile device with the router and then activate the sharing software on your mobile device. Then, select files that you want to share with your Display.
- If the connection is established correctly, you will be able to access the shared files from your mobile device via the Media Browser of your Display.
- Enter the Media Browser menu and the playback device selection OSD will be displayed. Select your mobile device and press the OK button to continue.
- If available, you can download a virtual remote controller application from the server of your mobile device application provider.

Note: This feature may not be supported on all mobile devices.

Wireless Display

Wireless Display is a standard for streaming video and sound content by Wi-Fi Alliance. This feature provides the ability to use your Display as wireless display device.

Using with mobile devices

There are different standards which enable sharing of screens including graphical, video and audio content between your mobile device and Display.

Plug the wireless USB dongle to Display first, if the Display doesn't have internal WiFi feature.

Then press the **Source** button on the remote and switch to **Wireless Display** source.

A screen appears stating that the Display is ready for connection.

Open the sharing application on your mobile device. These applications are named differently for each brand, please refer to the instruction manual of your mobile device for detailed information.

Scan for devices. After you select your Display and connect, the screen of your device will be displayed on your Display.

Note: This feature can be used only if the mobile device supports this feature. Scanning and connecting processes differ according to the programme you use. Android based mobile devices should have the software version V4.2.2 and above.

Connecting Other Wireless Devices

Your Display supports another short range wireless connection technology too. A pairing is required before using these kind of wireless devices with the Display set. You should do the followings to pair your device with the Display:

- · Set the device to pairing mode
- Start device discovery on the Display

Note: Refer to the user manual of the wireless device to learn how to set the device to pairing mode.

You can connect audio devices or remote controllers wirelessly to your Display. Unplug or switch off any other connected audio device in order for wireless connection feature to work correctly. For audio devices you should use the Audio Link option in the System>Sound menu, for remote controllers the Smart Remote option in the System>Settings>More menu. Select the menu option and press the OK button to open the related menu. Using this menu you can discover and connect the devices that use the same wireless technology and start to use them. Follow the on-screen instructions. Start the device discovery. A list of available wireless devices will be displayed. Select the device you want to connect from the list and press the **OK** button to connect. If "**Device** connected" message is displayed, the connection is successfully established. If the connection fails try it again.

Note: Wireless devices may operate within the same radio frequency range and may interfere with one another. To improve the performance of your wireless device place it at least 1 meter away from any other wireless devices.

Connectivity Troubleshooting

Wireless Network Not Available

- Ensure that any firewalls of your network allow the Display wireless connection.
- Try searching for wireless networks again, using the Network/Internet Settings menu screen.

If the wireless network does not function properly, try using the wired network in your home. Refer to the **Wired Connectivity** section for more information on the process.

If the Display does not function using the wired connection, check the modem (router). If the router does not have a problem, check the internet connection of your modem.

Connection is Slow

See the instruction book of your wireless modem to get information on the internal service area, connection speed, signal quality and other settings. You need to have a high speed connection for your modem.

Distruption during playback or slow reactions

You could try the following in such a case:

Keep at least three meters distance from microwave ovens, mobile telephones, bluetooth devices or any other Wi-Fi compatible devices. Try changing the active channel on the WLAN router.

Internet Connection Not Available / Audio Video Sharing Not Working

If the MAC address (a unique identifier number) of your PC or modem has been permanently registered, it is possible that your Display might not connect to the internet. In such a case, the MAC address is authenticated each time when you connect to the internet. This is a precaution against unauthorized access. Since your Display has its own MAC address, your internet service provider cannot validate the MAC address of your Display. For this reason, your Display cannot connect to the internet. Contact your internet service provider and request information on how to connect a different device, such as your Display, to the internet.

It is also possible that the connection may not be available due to a firewall problem. If you think this causes your problem, contact your internet service provider. A firewall might be the reason of a connectivity and discovery problem while using the Display in Audio Video Sharing mode or while browsing via Audio Video Sharing feature.

Invalid Domain

Ensure that you have already logged on to your PC with an authorized username/password and also ensure that your domain is active, prior to sharing

any files in your media server program on your PC. If the domain is invalid, this might cause problems while browsing files in Audio Video Sharing mode.

Using Audio Video Sharing Network Service

Audio Video Sharing feature uses a standard that eases the viewing process of digital electronics and makes them more convenient to use on a home network.

This standard allows you to view and play photos, music and videos stored on your media server connected to your home network.

1. Nero Media Home Installation

The Audio Video Sharing feature cannot be used if the server programme is not installed onto your PC or if the required media server software is not installed onto the companion device. Please prepare your PC with the Nero Media Home programme. For more information about the installation, please refer to the "Nero Media Home Installation" section.

2. Connect to a Wired or Wireless Network

See the **Wired/Wireless Connectivity** chapters for detailed configuration information.

3. Play Shared Files via Media Browser

Select **Media Browser** by using the **directional** buttons from the main menu and press **OK**. The media browser will then be displayed.

Audio Video Sharing

Select the desired media type on the main media browser menu and press **OK**. If sharing configurations are set properly, **Device Selection** screen will be displayed after selecting the desired media type. If available networks are found, they will be listed on this screen. Select media server or network that you want to connect to using the Up or Down buttons and press **OK**. If you want to refresh the device list, press the **Green** button. You can press **Menu** to exit.

If you select the media type as **Videos** and choose a device from the selection menu. Then select the folder with video files in it on the next screen and all the available video files will be listed.

To play other media types from this screen, you can go back to main **Media Browser** screen and select the media type as desired and then perform the network selection again. Or press the **Blue** button to switch to next media type quickly without changing the network. Refer to the **Media Browser** menu section for further information on file playback.

If a problem occurs with the network, please switch your display off at the wall socket and back on again. Trick mode and jump are not supported with the Audio Video Sharing feature.

PC/HDD/Media Player or any other devices that are compatible should be used with a wired connection for higher playback quality.

Use a LAN connection for quicker file sharing between other devices like computers.

Note: There may be some PC's which may not be able to utilize the Audio Video Sharing feature due to administrator and security settings (such as business PC's).

For best home network streaming with this Display, the Nero software should be installed.

Nero MediaHome Installation

To install Nero MediaHome, please proceed as follows:

Note: The Audio Video Sharing feature cannot be used if the server programme is not installed onto your PC or if the required media server software is not installed onto the companion device.

 Enter the link below completely in the adress-bar of your web browser.

http://www.nero.com/mediahome-tv

- Click the **Download** button on the opening page. The installation file will be downloaded onto your PC.
- After the download is completed, double click on the installation file to start the installation. The installation wizard will guide you through the installation process.
- 4. The prerequisites screen will be displayed first. The installation wizard checks the availability of required third-party software on your PC. If applications are missing they are listed and must be installed before continuing installation.
- Click the Install button. The integrated serial will be displayed. Please do not change the displayed serial.
- 6. Click the Next button. The License Conditions (EULA) screen will be displayed. Please read the license agreement carefully and select the appropriate check box if you agree to the terms of the agreement. Installation is not possible without this agreement.
- Click the **Next** button. On the next screen you can set your installation preferences.
- Click the Install button. The installation begins and finishes automatically. A progress bar will indicate the state of the installation process.
- Click the Finish button. The installation is completed. You will be directed to the web site of the nero software.
- 10. A shortcut is now placed on your desktop.

Congratulations! You successfully installed Nero MediaHome on your PC.

Run Nero MediaHome by double clicking on the shortcut icon

Internet Browser

To use the internet browser enter the main menu first by pressing the **Menu** botton. Then launch the **Internet Browser** application from the **Internet** menu. You can also press the **Internet** button on the remote to open the internet browser.

(*) The appearance of the internet browser logo may change In the initial screen of the browser, the thumbnails of the predefined (if any) links to web sites available will be displayed as Speed Dial options along with the Edit Speed Dial and the Add to Speed Dial options. If the Open browser initial page URL in the Signage Settings>Link Options menu is defined, the browser will open on this page.

To navigate the web browser, use the directional buttons on the remote or a connected mouse. To see the browser options bar, move the cursor to the top of the page. **History**, **Tabs** and **Bookmarks** options and the browser bar which contains previous/next buttons, the refresh button, the adress/search bar, the **Speed Dial** and the **Opera** buttons are available.

To add a desired website to the Speed Dial list for quick access, move the cursor to the top of the page. The browser bar will appear. Highlight the Speed Dial - iii button and press the OK button. Then select Add to Speed Dial option and press the OK button. Fill in the blanks for Name and Address, highlight OK and press the OK button to add. Whilst you are on the site you wish to add to the Speed Dial list, highlight the Opera- button and press the OK button. Then highlight Add to Speed Dial option in the submenu and press the OK button again. Name and Address will be filled automatically according to the site you are visiting. Highlight OK and press the OK button to add.

You can also use the **Opera** menu options to manage the browser. Highlight the **Opera-** $\overline{\mathbf{0}}$ button and press the **OK** button to see available page specific and general options.

There are various ways to search or visit websites using the web browser.

Enter the address of a website(URL) into the search/ address bar and highlight the **Submit** button on the virtual keyboard and press the **OK** button to visit the site.

Enter keyword/s into the search/address bar and highlight the **Submit** button on the virtual keyboard and press the **OK** button to start a search for the related websites.

Highlight a Speed Dial thumbnail and press the **OK** button to visit the related website.

Your Display is compatible with USB keyboard/mice. Plug your device into the USB input of your Display for easier and quicker navigation.

Some web pages include flash content. These are not supported by the browser.

Your Display does not support any download processes from the internet via the browser.

All sites on the internet might not be supported. According to the site; content problems may occur. In some circumstances video contents might not be able to be played.

Internal USB Operations

Your Display has an internal memory. There are 4 operations available that can be performed with the internal memory: Copy From USB, Copy To USB, Delete and Format Disk (FAT32 only).

These options can be found in the **Signage Settings>Internal USB operations** menu.

The internal memory of your Display has a default folder named "int_usb" in the root directory. All Copy From/To USB operations are performed using this folder. If you want to copy data from an external USB storage device to the internal memory of your Display, this/these data file/s should be installed in a folder named "copy_to_int_usb" in the root directory of the external USB storage device. If you want to copy data from the internal memory of your Display to an external USB storage device, a folder named "copy_from_int_usb" should be created in the root directory of the external USB storage device.

Copy From/To USB operations will only be available if a USB storage device is connected to your Display. Delete and Format Disk options will be still functional, even if no USB storage device is connected. The default "int_usb" folder in the root directory of the internal memory will be automatically recreated after each time Delete and Format Disk operations are performed.

OSD Rotation Support (*)

You can change the OSD (On Screen Display) rotation of your Display if desired. While performing **First time installation** set the **OSD Orientation** option as desired when the **Signage Settings** menu is displayed. You can also change this setting later from the **Signage Settings** menu. Available options are: **Landscape** and **Portrait**.

(*) This feature may not be available depending on the model of your Display

DisplayPort

DisplayPort version 1.2 is supported via the Display-Port input and output connectors on your Display.

DP Streaming Setting option in the **System>Settings>More** menu is set as **MST**(Multi-Stream Transport) by default. If a MST compliant source device is connected to the Display, the streaming data should be configured on the source device (Daisy-chaining).

If DisplayPort version 1.1 compliant or SST (Single-Stream Transport) compliant source device with DisplayPort version 1.2 support is connected to the Display, DisplayPort output on the Display will work as a splitter. In this case, same image will be displayed in all connected Displays.

To be able to stream the same image to all connected Displays using a MST compliant device, **DP Streaming Setting** option in the **System>Settings>More** menu should be set as **SST**.

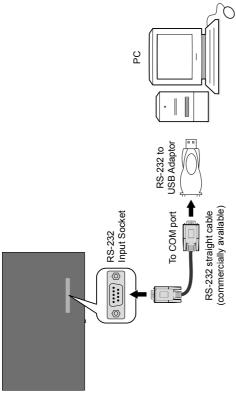
The maximum amount of the Displays that can be connected by using daisy-chaining function may differ depending on the source device's capacity. The image that will be displayed in all Displays will be defined by the source device. For example, to be able to stream 4 different FHD images, the source device should be capable of supporting this operation.

Note: It is recommended to use a DisplayPort certified cable for connection. In SST operation mode the total amount of the Displays is limited (a maximum of 7 units) due to HDCP encryption. If the signal is stable and there is no cable loss, there will be no limitation in case the source content is not HDCP-encrypted.

HDMI Out

The HDMI2 port located on the rear left side of the Display functions as an output port (upper HDMI port). This port will not function as an input, thus no source devices should be connected to this port. Only the content received from the HDMI1 input port located also on the rear left side of the Display (lower HDMI port) can be outputted from this port. The contents received from other inputs, such as VGA, DVI or Display Port, can not be outputted. This is a default function and you can not disable/enable through any menu option. HDMI output port will always function if a source device is connected to the HDMI input.

Controlling With An External PC



You can control the product from an external PC via RS-232 (COM port) or LAN (Ethernet port) on the PC. For instance, system source can be changed by RS-232 from remote computer. When a command is sent from the PC to the product, the product operates according to the received command and sends a response message to the PC.

Equipment/Tools:

- RS-232 (female) to RS-232(male) cable or LAN cable (connected via router)
- USB to RS-232(male) cable
- Notebook or PC which has USB or LAN port
- Installed program on remote PC to send commands:

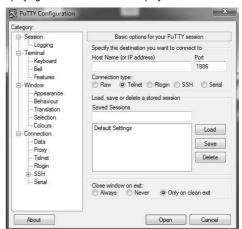
In general, the RS-232 commands are sent for operating the implemented functions via serial port and utility. A suitable utility can be used such as described below.

Connecting to the Display (LAN port)

Download and install the PuTTY software from the following link first: http://www.putty.org/.

Run the software and enter the Display's IP address in the field **Host Name**. Enter "1986" as a default value in the field **Port**. Then select "Telnet" as Connection type and click the Open button.

Note: Refer to the **Connectivity** section of this manual for information on connecting the Display to a network and displaying the IP address of the Display.



Use the commands in the **RS232 Command Table**. For example, if "GETVOLUME" command is entered, current volume level should be displayed on the putty window as shown in the pictures below.



Another example;

Volume level can be changed by using "VOLUME" command. After sending this command, you can verify the changes from the Display.



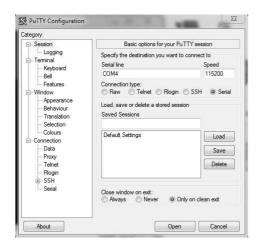
The last example;

When "GETSOURCE" command is entered, current source should be displayed on the putty window as shown in the picture below.



Connecting to the Display (RS232 port)

Run the software and select **Serial** as **Connection Type**. Enter the Display's serial port in the field **Serial Line** (in the following example it is COM4) and "**115200**" in the field **Speed**. Then click the **Open** button.



RS232/LAN Command Table

AUDIO COMMANDS			
Command	Description	Parameter	Return
GETVOLUME	Volume level information.	no parameter	#*volume level is
HEADPHONEVOLUME	"Set headphone volume level."	integer n (0 ≤ n ≤ 100)	#*set headphone volume to n
GETHEADPHONEVOLUME	"Headphone volume level information."	no parameter	#*headphone volume is
GETMUTE	Get mute value on/off.	no parameter	"#*MUTE OFF or #*MUTE ON"
SETMUTE	Set mute value on/off.	no parameter	"#*MUTE OFF or #*MUTE ON"
SETSOUNDMODE	"Set sound mode. SETEQUSERFREQ 100Hz 10"	"integer n (0 = mono, 1 = stereo, 2 = dual I, 3 = dual II, 4 = mono left, 5 = mono right)"	"#*setSoundMode() set to n or #*Invalid sound mode entered"
SETBALANCE	Set balance value.	integer n (-50 < n < 50)	"#*set balance level to n or #*invalid balance level entered"
GETBALANCE	Get balance value.	no parameter	#*balance level is
SETAVL	Set AVL state.	integer n (0 = off, 1 = on)	#*set avl state to n
GETAVL	Get AVL state.	no parameter	#*avl state is
SETDYNAMICBASS	Set dynamic bass state.	integer n (0 = off, 1 = on)	#*set dynamic bass state to n
SETEQUSERFREQ	Set equalizer user freq. value for any band.	"string n (120Hz, 500Hz, 1.5KHz, 5KHz, 10KHz) integer n -13 < n < 13 Example: SETEQUSERFREQ 120Hz 10"	"#*setEQUserFreq() set to n or #*Incorrect sound system parameter entered or #*Incorrect equalizer mode. It should be USER mode"
GETDIGITALOUT	Get digital out.	no parameter	#*digital out is pcm or #*digital out is compressed
SETEQMODE	Set equalizer mode.	string n (Music, Movie, Speech, Flat, Classic, User)	"#*setEQMode() set to n or #*Incorrect equalizer parameter entered"
SETDIGITALOUT	Set digital out.	string n (compressed, pcm)	#*setDigitalOut() set to n OR #*Incorrect digital out mode parameter entered
VOLUMEUP	"Inrease Volume Level by 1 step (Until max volume) "	no parameter	"#*volume LEVEL is increased to or #*You can NOT increase volume LEVEL further. Confirmed Max Volume Level is"
VOLUMEDOWN	Decrease Volume Level by 1 step	no parameter	"#*volume LEVEL is decreased to or #*You can NOT decrease volume LEVEL further. Current Volume level is "

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SETHEADPHONEOUTPUT	Set headphone output	string n (headphone,lineout)	"#*set headphone output to n or #*Invalid Parameter"
GETHEADPHONEOUTPUT	Get headphone output	no parameter	#*LINEOUT or #*HEADPHONE
GETDYNAMICBASS	Get dynamic bass state.	no parameter	#*the dynamic bass state is (0 = off, 1= on)
GETBASSGAIN	Get bass gain	no parameter	"#*the bass gain level is n Note: Above n is -6 <= n <= 6"
GETEQUSERFREQ	Get equalizer user freq. value of specified band	string n (120Hz, 500Hz, 1.5KHz, 5KHz, 10Khz)	"#*the equalizer value for the band is n or #*Incorrect sound system parameter entered Note: Above n is -13 < n < 13"
GETEQMODE	Get equalizer mode	no parameter	"#*the equalizer mode is n Note: Above n is one of Music, Movie, Speech, Flat, Classic, User"
SOUNDRESET	Reset sound settings	no parameter	"#*Fixed Volume is set to #*Fixed volume availability is set to #*Headphone volume control availability is set to #*Start volume availability is set to #*Start volume limit is set to #*Start volume limit is set to #*Lower volume limit is set to #*Upper volume limit is set to #*Wakeup time volume is set to #*Wakeup time volume is set to #*All equalizer bands are set to #*Headphone volume is set to #*Headphone balance is set to #*Headphone belance is set to #*Audio description path is set to #*Audio description relative volume is set to #*Audio description language is set to #*Sound Loudness is set to #*Sound mode digital is set to #*Sound subwoofer is set to #*Sound subwoofer is set to #*Sound subwoofer is set to #*Bass gain is set to #*Bass gain is set to #*Bass gain is set to #*Dynamic bass is "

	BROWSER COMMANDS			
Command	Description	Parameter	Return	
OPENURL	Starts the given URL and returns web page load status directly.	string-integer n <load url='n' /></load 	#*status= url=n	
GETURL	Gets URL of the current page if the portal is active.	no parameter	#*URL :	
GETUSERAGENT	Gets portal user agent.	no parameter	#*Current UA :	
GETCURSORPOSITION	Gets cursor position in the browser.	no parameter	#*X: Y:	
SETCURSORPOSITION	Sets cursor position in the browser.	string-integer a,b	#*X: a Y: b	
SETSETTINGSURL	Sets the settings URL	string	#*Setting URL is set	
GETSETTINGSURL	Gets the settings URL	no parameter	#*Setting URL is	
SETSTARTURL	Sets the start URL	string	#*Start URL is set	
GETSTARTURL	Gets the start URL	no parameter	#*Start URL is	

GENERAL DISPLAY COMMANDS			
Command	Description	Parameter	Return
SETRC	Enables/disables remote control commands.	string-integer n (n = ON, n = OFF)	set remote state On or set remote state OFF
SETSOURCE	Set source as enable/ disable.	"string n, integer b (n = SCART1, n = SCART2, n = FAV, n = SVHS, n = HDMI1, n = HDMI2, n = HDMI4, n = HDMI4, n = YPBPR, n = VGA, n = SCART15, n = SCART2S) (b = 1(enable), b = 0(disable))"	"#*Selected source n #*Enable/Disable state : b"
GETSOURCE	Gets source.	no parameter	#*source is
GETCOUNTRY	Get country in channels state.	no parameter	#*COUNTRY IS :
GETSWVERSION	Returns the software version of tv.	no parameter	#*V
KEY	Send key to Eclipse.	string-integer n (n = 0, n = 1,, n = up,, n = menu,ext.)	n key send to Eclipse
RESET	Reset the device.	no parameter	Reset process was successfully accomplished. You need to establish the connection again.

STANDBY	"Switch box to Standby mode. (Attention: Television cannot be opened with standby command. You should open it with remote control. If you use STANDBY command, you will need to establish the connection again. Tv state: HARD-STANDBY)"	no parameter	"#*enterLowPowerMode() returns successfully. or #*enterLowPowerMode() returns unsuccessfully! or #*enterStandbyMode() returns successfully. or #*enterStandbyMode() returns unsuccessfully! "
MENUTIMEOUT	Set menu time out mode.	integer n (n = 0 , n = 15, n = 30, n = 60)	"#*set menu timeout mode to OFF or #*set menu timeout mode to 60 or #*Invalid menu timeout mode "
GETMODELNO	Get model no.	no parameter	#*Model no:
GETSERIALNO	Get serial no.	no parameter	#*Serial no:
GETLED	Get led on/off state.	no parameter	"#*LED is on #*LED is off"
GETRC	Get remote control commands enabled status	no parameter	"#*remote control commands are on #*remote control commands are off"
USBOPERATIONS	Perform USB Operations	no parameter	You may observe prints Bank 0, Bank 1 etc. Be sure or observe debug print outs: "MFC ISP: done" will be writen This may take over 10 minutes.
GETMENUTIMEOUT	Get menu time out mode	no parameter	"#*menu timeout mode is OFF #*menu timeout mode is n #*can not get menu timeout mode Note: Above n is one of (15, 30, 60)"
GETTVLIFETIME	Prints Monitor life time in minutes.	no parameter	#*Monitor Life Time: n
SETPOWERONDELAY	Set poweron delay level	integer n (0<=n<=20, delay is calculated as 100ms*n)	"#*Poweron delay set to Ms #*NACK"
GETPOWERONDELAY	Get poweron delay level	no parameter	#*The power on delay is ms
SIGNAGERESET	Set all items in the signage settings menu to their default values.	no parameter	#*All signage settings set to default values
SELECTSOURCE	Select source. (0=TV, other source indexes(some of them are not enabled))	integer n (5=FAV, 7=HDMI1, 8=HDMI2, 11=YPbPr, 12=Vga, 18=DVI, 19=DP, 20=OPS)	" #*select TV source or #*select External source"
KEY standby	Switch box to Standby mode. (For quick standby)	no parameter	standby key send to Eclipse

	Display the current date		
TIME	and time.	no parameter	Time =
GETSTANDBY	Get standby on/off.	no parameter	"#*standby off or
	,	'	#*standby on"
STARTFTI	Start First Time Installation.	no parameter	#*FTI was initialising.
CHANGELNG	Change active language.	"integer-integer x y x = language type (0 = System Language, 1 = Event Language, 2 = Primary Audio Language, 3 Secondary Audio Language, 4 = Primary Subtitle Language, 5 = Secondary Subtitle Language, 6 = Primary Teletext Language, 7 = Secondary Teletext Language) y = language (0 = Danish, 1 = German, 2 = Estonian, 3 = English, 4 = Spanish, 5 = Greek, 6 = French, 7 = Gaelic, 8 = Croatian, 9 = Italian, 10 = Latvian, 11 = Lithuanian, 12 = Hungarian, 13 = Dutch, 14 = Norwegian, 15 = Polish, 16 = Portuguese, 17 = Russian, 18 = Romanian, 19 = Albanian, 20 = Slovenian, 21 = Slovak, 22 = Serbian, 23 = Finnish, 24 = Swedish, 25 = Turkish, 26 = Czech, 27 = Ukranian, 28 = Bulgarian, 29 = Arabic, 30 = Persian, 31 = Hebrew , 32 = Belarussian, 33 = Macedonian, 34 = Montenegrin, 35 = Kazakh, 36 = Thai) Example: CHANGELNG 0 25 (To set system language to Turkish) "	"#*Active language was changed or #*Incorrect item parameter entered"
SETCOUNTRY	Set country in no channels state.	string-integer n(TURKEY, GERMANY,)	"#* setCountry() set to n or #*Country should be set only in the FTI mode (no channels state)"
	SETQUICKSTANDBY		"#*Set Quick Standby on or
SETQUICKSTANDBY	n, where n is one of (off, on).	string-integer n (n = ON, n = OFF)	#*Set Quick Standby off or #*Quick Standby is not enabled"
GETQUICKSTANDBY	Returns Quick Standby state n (on or off)	no parameter	#*Quick Stanby is n
USBOPERATIONS	Perform USB Operations	no parameter	You may observe prints Bank 0, Bank 1 etc. Be sure or observe debug print outs: "MFC ISP: done" will be writen This may take over 10 minutes.

NETWORK COMMANDS			
Command	Description	Parameter	Return
set_IP_address	Set static IP address of eth0 network interface.	str-int n Example: set_IP_ address 192.168.0.15	"#*IP address setting Succesfull #*IP address setting NOK"
get_IP_address	Get IP address of eth0 network interface. Usage: get_IP_address	no parameter	#*IPaddr:
SETNETWORKTYPE	set network type (eg. SETNETWORKTYPE value) (value should be 'wired', 'wireless' or 'disabled' as string)	string n ('wired', 'wireless' or 'disabled')	#*Network type is set to: <network- type></network-
GETNETWORKTYPE	get network type (eg. GETNETWORKTYPE)	no parameter	#*the network type is <network- type></network-
SETSUBNETMASK	set subnet mask (subnet mask value should be of format nnn.nnn.nnn) (eg. SETSUBNETMASK nnn.nnn.nnn.nnn)	string "nnn.nnn.nnn.nnn"	"#*set subnet mask: nnn.nnn.nnn. nnn #*setting subnet mask is failed"
GETSUBNETMASK	get subnet mask (eg. GETSUBNETMASK)	no parameter	#*the subnet mask is nnn.nnn.
SETDEFAULTGATEWAY	set default gateway (default gateway value should be of format nnn.nnn.nnn) (eg. SETDEFAULTGATEWAY nnn.nnn.nnn)	string "nnn.nnn.nnn.nnn"	"#*set default gateway: nnn.nnn. nnn.nnn #*setting default gateway is failed"
GETDEFAULTGATEWAY	get default gateway (eg. GETDEFAULTGATEWAY)	no parameter	#*the default gateway is nnn.nnn.
GETDNS1	get DNS server 1 (eg. GETDNS1)	no parameter	#*DNS server 1 is nnn.nnn.nnn.
GETDNS2	get DNS server 2 (eg. GETDNS2)	no parameter	#*DNS server 1 is nnn.nnn.nnn.
INTERNETSPEED	start internet speed test	no parameter	" Speed test is started. Prints ""No internet connection found"" message if fails."

VGA/PC COMMANDS			
Command	Description	Parameter	Return
HPOS	Set horizontal position.	int n (-25 ≤ n ≤ 25)	"set horizontal position to (percentage in the range) #*invalid value entered"
VPOS	Set vertical position.	int n (-25 ≤ n ≤ 25)	"#*set vertical position to (percentange in the range) #*invalid value entered"
DOTCLOCK	Set dot clock.	int n (-50 ≤ n ≤ 50)	"#*set dot clock to (percentange in the range) #*invalid value entered"
AUTOPOS	Set auto position	no parameter	#*set auto position
GETOSDORIENTATION	Get OSD orientation	no parameter	#*The OSD orientation
GETHPOS	Get horizontal position.	no parameter	#*The horizontal position is
GETVPOS	Get vertical position.	no parameter	#*The vertical position is
GETDOTCLOCK	Get dot clock.	no parameter	#*The dot clock is

SETOPSPOWER		string parameter "on" or "off"	"#*Turning OPS on #*Turning OPS off #*The OPS is already on #*The OPS if already off #*The OPS is not enabled #*The OPS is not plugged in #*invalid value entered"
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	PICTURE COMMANDS			
Command	Description	Parameter	Return	
COLOURTEMP	Set colour temperature.	str-int n (n = normal, warm, cool)	#*setColourTemp() set to n	
GETPICTUREMODE	Get picture mode.	no parameter	#*Picture Mode is for current source	
PICTUREMODE	Select picture mode.	int n (1 = dynamic, 2 = natural, 3 = cinema, 4 = game)	"#*setPictureMode() set to n #*Incorrect picture mode paramater entered"	
GETCONTRAST	Get picture contrast value.	no parameter	#*THE CONTRAST VALUE :	
SETCONTRAST	Set picture contrast value.	int n (0 ≤ n ≤ 100)	"#*Picture contrast value is set to n #*Same value is set. Do nothing. #*Incorrect value must between defined ranges 0-100"	
GETBRIGHTNESS	Get picture brightness value.	no parameter	#*THE BRIGHTNESS VALUE :	
SETBRIGHTNESS	Set picture brightness value.	int n (0 ≤ n ≤ 100)	"#*Picture brightness value is set to n #*Same value is set. Do nothing. #*Incorrect value must between defined ranges 0-100"	
GETSHARPNESS	Get picture sharpness value.	no parameter	#*THE SHARPNESS VALUE :	
SETSHARPNESS	Set picture sharpness value.	int n (0 ≤ n ≤ 100)	"#*Picture brightness value is set to n #*Same value is set. Do nothing. #*Incorrect value must between defined ranges 0-100"	
GETCOLOUR	Get picture colour value.	no parameter	#*THE COLOUR VALUE :	
SETCOLOUR	Set picture colour value.	int n (0 ≤ n ≤ 100)	"#*Picture colour value is set to n #*Same value is set. Do nothing. #*Incorrect value must between defined ranges 0-100"	
SETSKINTONE	Set picture skin tone value.	int n (-5 ≤ n ≤ 5)	"#*Picture skin tone value is set to n #*Same value is set. Do nothing. #*Incorrect value must between defined ranges -5-5"	
PICTUREZOOM	Set picture zoom mode.	str-int n (n = auto, 16:9, subtitle, 14:9, 14:9zoom, 4:3, full(only for HD channels), panaromic, cinema)	"#*setPictureZoomMode() set to n #*Incorrect picture zoom mode parameter entered"	
SETWB	Set white balance value.	str-int type, value (type = redgain, greengain, bluegain, redoffset, greenoffset, blueoffset) (0 ≤ value ≤250)	"#*White Balance is set to value Invalid value for White Balance (0-255) Invalid type for White Balance"	

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GETWB	Get white balance value.	str-int type (type = redgain, greengain, bluegain, redoffset, greenoffset, blueoffset)	#* type
SET3DMODE	Set 3D mode values (values are off, auto, side by side, top bottom and game)	int n (n = off, auto, side by side, top bottom, game)	"#*set3DMode() set to n #*Incorrect 3d mode parameter entered"
SETVIRTUAL3D	Set virtual 3d values.	int n (0 = off, 1 = low, 2 = medium, 3 = high)	"seMonitorirtual3D() set to n Incorrect virtual 3d mode paramater entered
CONTRASTUP	Inrease Contrast Level by 1 step	no parameter	Picture contrast value is set to
CONTRASTDOWN	Decrease Contrast Level by 1 step	no parameter	Picture contrast value is set to
GETENERGYSAVING	Get energy saving mode. (if enabled from profile)	no parameter	#*The energy saving mode is
GETPOWERSAVE	Get power save mode	no parameter	"#*Powersavemode is ON #*Powersavemode is OFF"
GETCOLOURTEMP	Get colour temperature.	no parameter	#*Colour temp is
GETHUE	Get picture hue value.	no parameter	#*Hue level is
GETSKINTONE	Get picture skin tone value.	no parameter	#*Picture skin tone is
GETPATTERN	Get selected pattern of the Monitor screen	no parameter	The pattern is

VIDEO WALL COMMANDS			
Command	Description	Parameter	Return
SETROWCOUNT	Set row count.	integer n (0 ≤ n ≤ 100)	#*set row count to n
GETROWCOUNT	Get row count.	no parameter	#*row count is
SETCOLUMNCOUNT	Set column count.	integer n (0 ≤ n ≤ 100)	#*set column count to n
GETCOLUMNCOUNT	Get column count.	no parameter	#*column count is
SETCELL	Set cell.	integer n (0 ≤ n ≤ 100)	#*set cell to n
GETCELL	Get cell.	no parameter	#*cell is
SETOFFSET	Set offset.	integer n ($0 \le n \le 100$). n is the number of pixels which will be cropped from all four sides.	#*set offset to n
GETOFFSET	Get offset.	no parameter	#*offset is
SETVIDEOWALL	Set videowall parameters	"parameters for items in following format: RowCount-ColumnCount- Cell-Offset"	#*set row count to, set column count to, set cell to, set offset to
GETVIDEOWALL	Get videowall parameters	no parameter	#*row count is, column count is, cell is, offset is

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SETALLVIDEOWALL	Set all videowall parameters	"parameters for items in following format: picture_mode-contrast-brightness-sharpness-color-powesave_mode-backlight_mode-colortemp-zoom_mode-hdmi_trueblack-picture_hue-volume-headphone_volume"	#* ("set to" for each parameter in order)
GETALLVIDEOWALL	Get all videowall parameters	no parameter	#*picture_mode-contrast- brightness-sharpness-color- powesave_mode-backlight_mode- colortemp-zoom_mode-hdmi_ trueblack-picture_hue-volume- headphone_volume
SETPIXELSHIFT	Set pixel shift is enabled or not	string-integer n (n = on, n = off)	"#*ACK #*NACK"
GETPIXELSHIFT	Get pixel shift	no parameter	#*Pixel Shift is
SETSIGNAGEID	Set Signage ID	integer n (1 \leq n \leq 100). n is the Signage ID	"#*ACK #*NACK"
GETSIGNAGEID	Get Signage ID	no parameter	"#*The signage ID is (If return value is 0, then it means no signage id is assigned. 0 is the default value.)"

MEDIA BROWSER COMMANDS				
Command	Description	Parameter	Return	
SETVIEWSTYLE	set view style (Flat or Folder)	string n (Flat, Folder)	#*The view style is set to (Flat or Folder)	
GETVIEWSTYLE	get view style (Flat or Folder) no parameter		#*The view style is (Flat or Folder)	
SETSLIDESHOWINTERVAL	set slide show interval	integer n (5, 10, 15, 20, 25, 30)	#*The slideshow interval is set to seconds	
GETSLIDESHOWINTERVAL	ESHOWINTERVAL get slide show interval no parameter		#*The slideshow interval is seconds	
		#*The USB autoplay is set to (ON, OFF)		
GETUSBAUTOPLAY	get usb autoplay mode	no parameter	#*The USB autoplay is (ON, OFF)	

ADMIN PANEL COMMANDS				
Command	Description	Parameter	Return	
RST	Restart	no parameter	#Monitor will be restarted	
STV	Sets Monitor Volume, parameter value will ve set for volume level	integer (volume level)	#Volume set level=	
STL	Set Monitor Language	string-int (please look at abbreviations of languages)	#Language changed to	
STWA	Stop wake up alarm	no parameter	#WakeupAlarm stopped !!!	
STEA	Stop emergency alarm	none	#Emergency Alarm is stopped !!!	
UNP	Send Message	"string-int (message text - 0) [message content should be ""word1+ word2+word3""]"	#Message Sent in SUCCESS !!!	
GTSURL	Get Monitor Portal URL	none	#StartUp url is	

SIGNAGE SETTINGS COMMANDS				
Command	Command Description Parameter		Return	
GETTOTALSPACE	get total usb space (in MB)	no parameter	#*The total space is MB	
GETFREESPACE	get free usb space (in MB)	no parameter #*The total space is		
SAVEMODELINFO	saves model name and sw version to a removable device	no parameter	#*Model info is saved OR #*No Removable drive is connected	
SETSCHEDULER	enables/disables scheduler	string n (ON, OFF)	(If there is no device connected) #*The scheduler is set to (ON, OFF)	
GETSCHEDULER	get scheduler enabled/ disabled	no parameter	#*The scheduler is (ON, OFF)	
SETSCHEDULEOP	set scheduler parameters	string n (on time_off time_ source in format: hh:mm_ hh:mm_source)	#*Schedule parameters are (set/ not set).	
GETSCHEDULEOP	get scheduler parameters	no parameter	#*Scheduler on/off time and source is: (hh:mm_hh:mm_source)	

RS232 HEX COMMANDS

Protocol Test Steps

- Before testing, please know the board type you have. There are two types of board. The UART 0 and UART 1 connections of the these boards are explained below:
 - RJ12 is connected to UART 0, DSUB9 is connected to UART 1. Therefore, UART 0 and UART 1 could be tested separately in this type of the board
 - RJ12 and DSUB9 both are connected to UART 0. UART 1 is supported for OPS module but not reachable. Therefore, only UART 0 could be tested in this type of the board.
- · Activate HEX protocol on TV.
 - a. Enter Signage Settings Menu.
 - b. Change ASCII option to HEX in UART 0 or UART 1 sub-menu item
- Open any serial port communications program (e.g Realterm). Configure serial communication settings as below:

Baud Rate: 19200 for UART0, 9600 for UART1

Parity : None
Data Bits : 8
Stop Bits : 1
Handshake : None

Note that UART0 default value: ASCII, UART1 default value: HEX

In the tables given below, XY represents are variable byte.

All byte values are hexadecimal.

Error Responses

• NAK reply: 15 When the display cannot understand the received command, it returns this value. In such a case, check the sending code and send the same command again.

• Error reply: 1C 00 00 When the display cannot execute the received command for any reasons, it returns this value. In such a case, check the sending code and the setting status of the display.

Maximum Pixel Rates

17MB120DSR4	Max. Resolution	Colour Space	Bits/Component	Pixel/Rate
HDMI	4k@60Hz	YCbCr4:2:0	12 bit	445.50MHz
OPS	4k@60Hz	YCbCr4:2:0	10 bit	371.25MHz
HDMI (DVI opt)	4k@60Hz	RGB/YCbCr4:4:4	8 bit	594MHz

(*) Consult your local dealer to get information on the chasis version of your display

System Features

Panel

Panel type		86" (218cm) 7/16 TV Panel	
Resolution	on	3840x2160 (16:9) - UHD	
Visual angle	Horizontal	89°	
	Perpendicular	89°	
Max. brightness		Typ: 500 cd/m2	
Max. contrast		Typ: 1200 / Min: 900	
Respons	e time	8ms	
H-Frequency		60 Khz	
V-Frequency		67.5 Khz	

Audio

2 x 8 W Audio Output Power

Network Connection

Ethernet (LAN) for Internet connectivity 802.11 a/b/g/n built in WIFI Support (optional)

Input/Output Ports

1 x USB 2.0 port (500mA)

1 x USB 3.0 port (900mA)

1 x Internal USB 2.0 port (500mA)

1 x HDMI 2.0 In port

1 x VGA port

1 x Audio input port

1 x Audio output port

1 x RS232 port

1 x RJ12 port

1 x Video In port

1 x YPbPr port

1 x SPDIF Coaxial Out port

1 x DiplayPort v1.2 In

1 x DiplayPort v1.2 Out

1 x Headphone port

1 x IR port

Power

110-240V AC 50-60Hz 3200mA

Weight (kg)

36

TV Dimensions DxLxH (mm)

1975mm x 1146mm x 103mm

Note: Depending on the model you have bought, some options may not be included with your display.

Accessories Included

· Remote Control

Batteries: 2 x AAA

Instruction Book

· Quick Start Guide

IR Extender

· Wall Mount Kit

Information for Users on Disposal of Old Equipment and Batteries

[European Union only]

Equipment bearing these symbols should not be disposed as general household waste.

You should look for appropriate recycling facilities and systems for the disposal of these products.

Notice: The sign Pb below the symbol for batteries indicates that this battery contains lead.





Products

Notification

TRADEMARK ACKNOWLEDGMENT

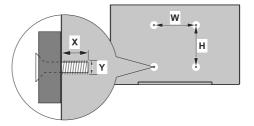
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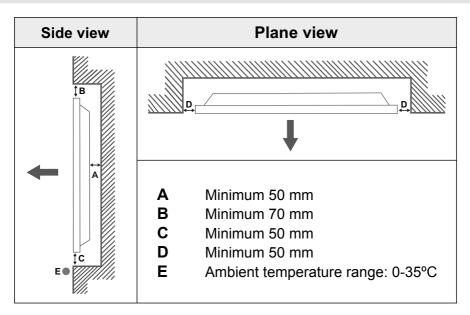
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Vesa Wall Mount Measurements

Hole Pattern	w	н		
Sizes (mm)	400	200		
Screw Sizes				
Length (X)	min. (mm)	7		
	max. (mm)	21		
Thread (Y)	M6			



Installation On An Indented Wall





When installing the product on an indented wall, allow at least the space specified above between the product and wall for ventilation and ensure that the ambient temperature is kept between $0^{\circ}\text{C}-35^{\circ}\text{C}$.

Do not expose the product to direct sunlight.

We will take no responsibility for any damages or failures in case our products are not being used subject to these recommendations and/or instructions for use.