

WATCHPAX 40 USER'S GUIDE



DATATON WATCHPAX 40 – USER'S GUIDE

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This manual refers to the "WATCHOUT USER'S GUIDE, see: dataton.com/support/user-guides

1. INTRODUCTION

WATCHPAX 40 is a dedicated media server with four DisplayPort video outputs and a built-in Dataton WATCHOUT license. The server is designed solely with WATCHOUT shows in mind and offers built-in EDID, as well as smart restore/reset.

WATCHPAX 40 is a locked-down unit, preconfigured for playback of WATCHOUT shows only. Multiple units can be installed together in a rig or combined with Dataton's other media servers.

WATCHPAX 40 weighs just under 3 kg and is a handy lettersize format making it easy to transport. Other practical details include rubber bumpers, Kensington security slot and a strap handle for carrying.

Two units may also be mounted together and then installed in a 19-inch rack.



WHAT'S WATCHOUT?

Dataton WATCHOUT is the leading multi-display production and playback software. Use WATCHOUT to orchestrate images, video, lighting, 3D and interactivity into a single impressive show. The essential components of a WATCHOUT show are the software, media servers (such as WATCHPAX 40) and display devices (projectors, LED displays, etc), running on a standard network.

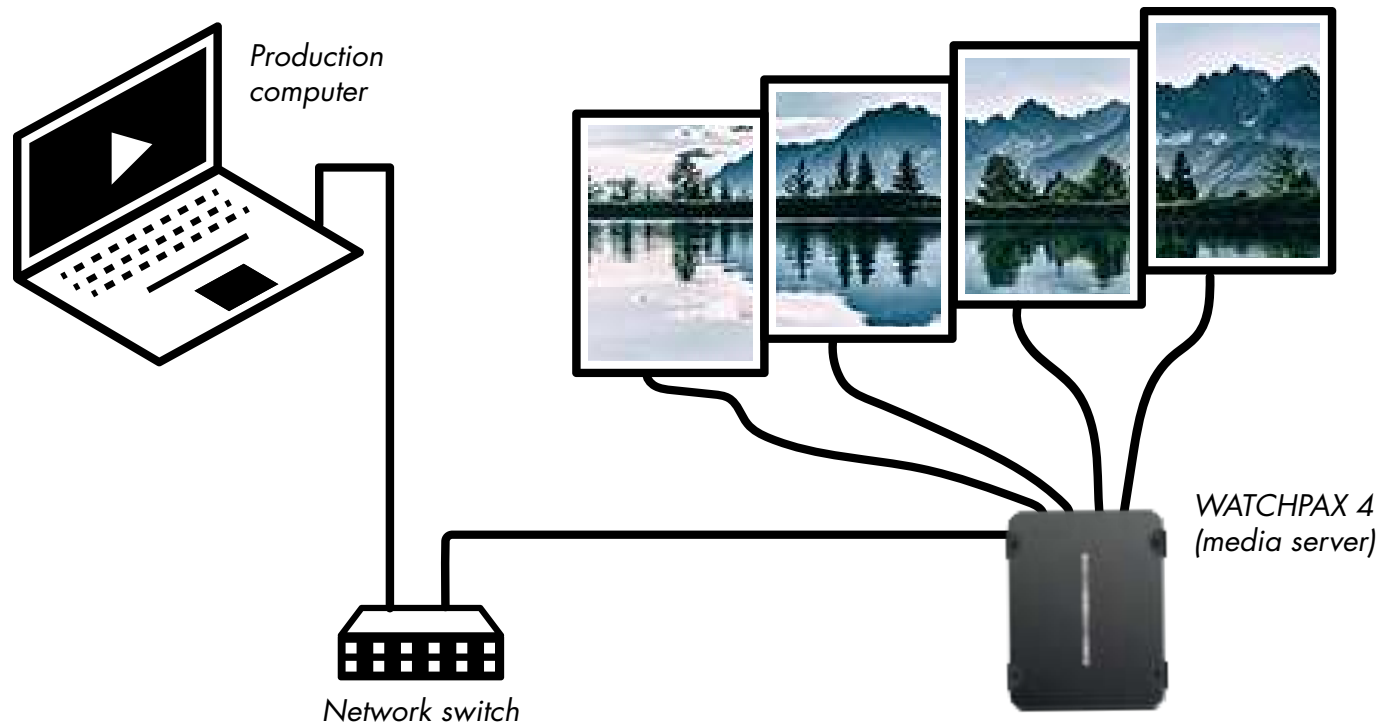
In an operational setup, a WATCHOUT license key is required for the production computer running the show and each media server. All Dataton-branded media servers, including the WATCHPAX 40, have the license key built in.

WATCHOUT shows can be presented with multiple projectors for large, seamless images or used with monitors, LED walls or other creative screen arrangements. WATCHOUT also has a strong set of projection and pixel-mapping features for applying content to complex three-dimensional objects.

Download WATCHOUT for free from the Dataton website: www.dataton.com

SYSTEM OVERVIEW

WATCHPAX 40 is used as part of a WATCHOUT multi-display system.



A small WATCHOUT system with WATCHPAX 40

In the schematic above, there is a laptop (production computer) running WATCHOUT software and equipped with a WATCHOUT license key. This connects to a network switch which, in turn, connects to a Dataton WATCHPAX 40 media server. The WATCHPAX unit connects and manages the display devices. In the example, these consist of four LED screens.

WATCHPAX 40 IN YOUR RIG

The WATCHPAX has four DisplayPort outputs. Used as is, it will manage four display devices in your presentation. Splitters may also be used to increase the number of display devices managed. The system is scalable – if you want to increase the number of display devices, add more media servers to your rig.

All Dataton media servers have a built-in WATCHOUT license but you will need an additional license key for your production computer. If you are not using a Dataton media server (WATCHPAX or WATCHMAX) you will need a WATCHOUT license key for each media server/display computer.

DISPLAY DEVICES

In the illustration above, four LED screens are used as the display devices. However, WATCHOUT can be used with virtually any display device that can be connected to a computer (such as projectors, LCD panels, LED walls etc).

START UP SCREEN

This is shown on all display devices connected to the WATCHPAX 40 at start-up, or if WATCHOUT has been re-launched. There are three lines of information:

First line: Computer and cluster name (if this has been set in the WATCHOUT Production software Network window – please see the “Network Window” section in Chapter 3: Windows, “Dataton WATCHOUT User’s Guide” for more information), IP address for the media server.

Second line: Version number of the WATCHOUT Display software that is currently installed on the media server.

Third line: Media server model type, serial number, firmware version



WATCHOUT start-up screen

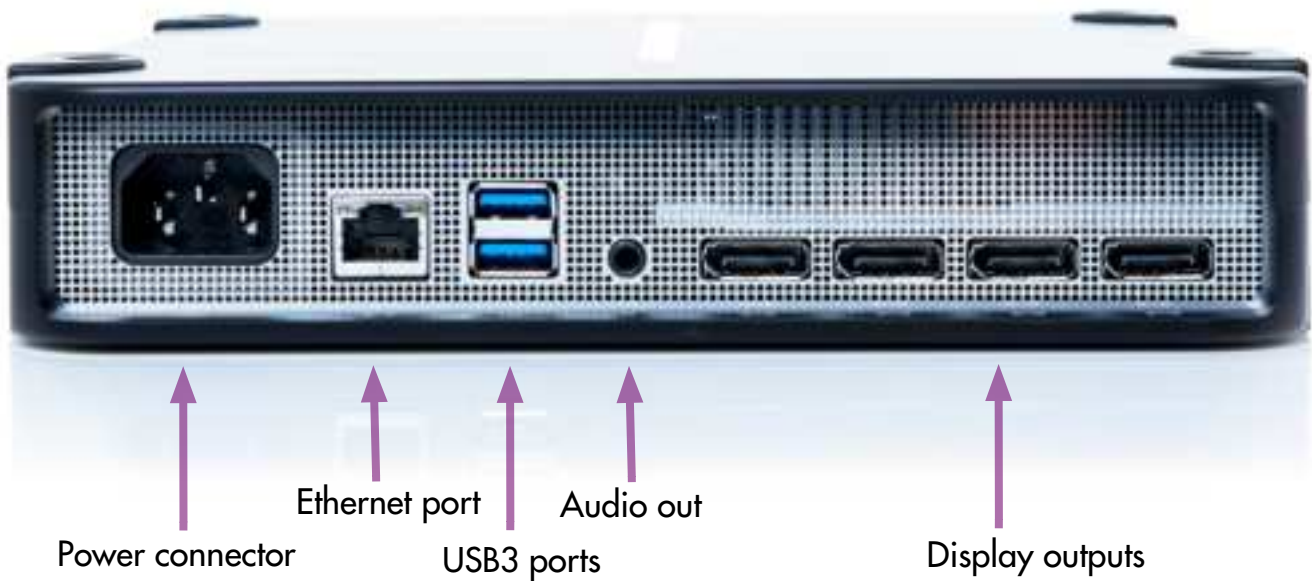
ACCESSORIES

Included: Power cord included with media server.

Available separately: Rack kit for mounting two units in a 19" rack.



CONNECTORS



DIMENSIONS

Width	214 mm
Height	43 mm
Depth	276 mm
Weight	2950 g

POWER

IEC C14 power inlet

Input voltage 85 to 264 VAC, 50 to 60 Hz

Power consumption max 250 W (internal 3.14 A fuse)

Unit contains a 3 V coin-cell battery to power the RTC (real-time clock) circuitry

ENVIRONMENTAL

Temperature range

Optimal ambient temperature range for operation 21 °C to 23 °C

Operating 0 °C to +40 °C

Storage and transportation -20 °C to +40 °C

Relative humidity

Optimal 45% to 50%

Operating 20% to 85 % (non-condensing)

Storage and transportation 10% to 90% (non-condensing)

Altitude

Operating, maximum 2000 meters above sea level

MEDIA SERVER OPERATING SYSTEM

The operating system in WATCHPAX 40 has been optimized and licensed for this specific media server configuration.

Do not install or attempt to install any software on the locked-down media server (such as drivers, software updates, security updates, virus protection, etc). Doing so will automatically void the unit's warranty.

For security reasons, media servers should always be installed and operate on a separate network, without access to other networks.

2. INSTALLATION AND OPERATION

BEFORE USING YOUR WATCHPAX 40

Please read the manual thoroughly before operation. Always check that the unit has not been damaged in transit when you take delivery.

IMPORTANT: The WATCHPAX 40 is a plug-and-play unit. Do not open, modify or repair the unit yourself. Opening, modifying (software or hardware) or repairing the unit yourself will invalidate the warranty and presents a risk for the user.

SAFETY FIRST

- Insert the power plug all the way in, so it is not loose.
- Do not place the power cord or product near heat sources.
- Do not suspend the unit using the strap handle and do not use the strap as an anchor point.
- Caution: shock hazard if handled carelessly or inaccurately.
- Do not remove cover. Refer all servicing to Dataton. The unit shall be connected to a grounded outlet.
- Do not use a damaged power cord or plug.
- Do not touch the power plug with wet hands.
- Do not install the product in a narrow space and/or where there is bad ventilation. Do not block the ventilation in any way when operated. Always keep front and back of unit clear, minimum 200 mm.
- Always keep plastic packaging away from children.
- Do not install the product on an unstable or vibrating surface.
- Install the unit in a clean, dry area without excessive particles or dust, in the air (preferably in an air-conditioned server room). Do not install the product in a place where it is exposed to high temperature, chemicals, dust, moisture, oil or smoke as this may seriously affect its performance and lifetime.
- Take care not to drop the product when moving it.
- When installing the product on a shelf, ensure the bottom edge of the product does not protrude to avoid tipping, for example.
- To move the product, first disconnect all the cables from it.
- The wall socket should be easily accessible for pluggable equipment.
- High voltage runs through the product. Do not attempt to disassemble, repair, or modify the product on your own. To move the product, first disconnect all the cables from it.
- If the product generates a burning smell, or smoke, remove the power cords immediately and contact Dataton.
- If the product falls, or the exterior is damaged, power off the product, remove the power cords and contact Dataton.
- If there is a risk of thunderstorm or lightning strike, turn off the power and disconnect all cables.

- Do not insert a metallic object or inflammable object into any opening of the product.
- Only use the screws and brackets (as supplied in the rack kit) for mounting in a 19-inch rack.
- Unplug this product from the AC power supply before cleaning. Do not use liquid or aerosol cleaners on the product. Use a microfiber cloth for cleaning.
- After storage in cold conditions, let the product adapt to normal temperature for two hours before powering on.

VENTILATION

Airflow is critical for the correct operation of WATCHPAX 40.

There are four built-in fans which maintain airflow and cooling during operation. Air flows from the front of the unit to the rear. Keep therefore both front and rear panels clear of obstruction at all times.

In an installation, there should be a minimum of 200 mm clear space at front and 200 mm at back of the unit.



INSTALLATION

GENERAL

- This equipment is for professional use for installation at locations where only adults are normally present. Check the "Safety First" list before use.
- The WATCHOUT 40 must be connected to a properly grounded wall socket (a socket-outlet with protective earth connection in the building).
- The serial number is located on the base of the unit.

IMPORTANT: Only use the power cord supplied with the WATCHPAX 40 unit, otherwise Dataton AB cannot guarantee full functionality.

STANDALONE INSTALLATION

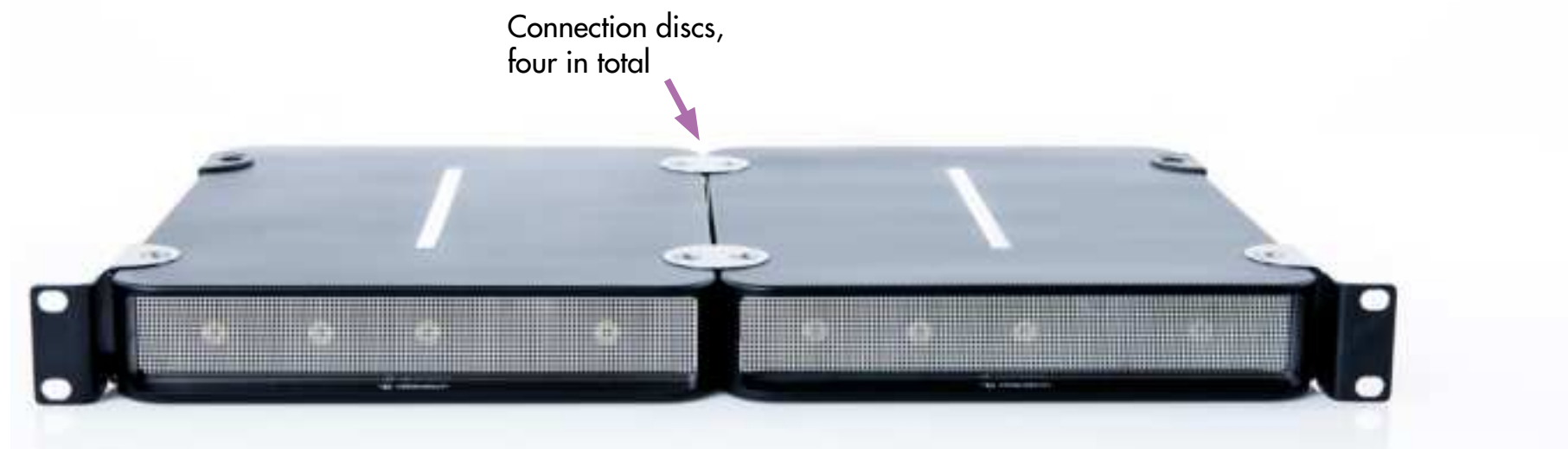
Place the unit flat on its base. The base is the side of the unit showing the serial number and Dataton logo.

INSTALLATION IN 19-INCH RACK

The WATCHPAX 40 unit may be mounted in a 19-inch rack by using the rack kit, “*Rack Mounting Kit*” (product number 9784) which is available separately. Using the kit, two WATCHPAX 40 units are joined and can then be inserted into a 19-inch rack.

IMPORTANT: The two WATCHPAX 40 units are attached with brackets at the front of the rack. The rack must therefore be equipped with a shelf at the back to support the units.

- Using a hex key, remove the rubber bumpers on both units and retain the screws. Save the bumpers in case you wish to re-mount them at a later date.
- Place the two WATCHPAX units side-by-side and join them in the middle with the connection discs. Using the screws from the bumpers, first mount two discs on the top of the units. Carefully turn the unit over and mount the remaining two discs along the center line on the underside of the units.
- **IMPORTANT:** Always mount all four discs to ensure the units are safely joined together.
- Attach the two rack brackets (or ears) on the front corners of the joined units. These can be fitted facing forward or backward, depending on the airflow, and cabling.



POWER ON

There is no on/off switch on a WATCHPAX 40. The unit is turned on by inserting the power cord.

FIRST POWER ON

The first time you power up a WATCHPAX 40 (after delivery or after a reset) the system will finalize installation and reboot several times. This procedure will typically take about 5 minutes to complete.

IMPORTANT: Do not interrupt this procedure.

POWER OFF

Powering down should be initiated from within WATCHOUT production software.

When the power-off sequence is complete, the fans will turn off, and the power cord may be removed.

There are three ways to power off from WATCHOUT, as described in the “Manage Display Computer” section in Chapter 3: Windows, in the “Dataton WATCHOUT User’s Guide.”

- Use *Manage Display Computer > Power Down* found in the Stage main menu.
- Use the *Manage Display Computer* context menu when a display is selected on the Stage.
- Use the *Remote Access* to initiate shutdown directly from the media server.

NOTE: If you need to perform a forced shutdown, unplug the power cord to turn off the unit.

RESET WATCHPAX 40

There are occasions when you may want to reset a WATCHPAX 40, for example, if the unit has been corrupted, or if it's a rental unit and user-specific info has to be removed between rentals.

There are two levels of reset:

- Reset and keep user data. This resets the operating system, display, GPU and capture settings but retains user data, such as shows and media.
- Reset to factory settings. This takes the unit all the way back to the original factory settings, you lose all user data.

IMPORTANT: A reset, regardless of level, is an advanced measure. Make sure you are fully aware of what data you lose when you reset!

RESET AND KEEP USER DATA

This option resets the system partitions but keeps all user data such as:

- Shows
- Media
- WATCHOUT settings
- Startup script
 - Network settings
 - Timecode settings

Driver-related settings will be reset to default factory settings such as:

- Display settings
 - Display mode
 - EDID caching

RESET TO FACTORY SETTINGS

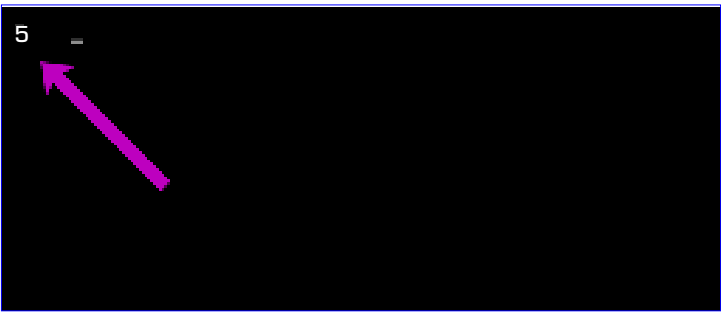
This resets all partitions to factory settings and all user data will be lost. This level of reset is suitable when you want to remove all settings between projects.

RESET PROCEDURE

The reset menu is hidden by design in order to avoid accidental resets or misuse. To reset your WATCHPAX 40 device, follow these 10 steps:

1. Power off the WATCHPAX 40.
2. Disconnect all USB devices.
3. Insert a keyboard into one of the two USB ports.
4. Connect at least one display device to a DisplayPort output.

5. Power on the WATCHPAX 40.
6. During startup, you will see a five-second countdown in the top left corner of the display. Press Esc during this countdown.

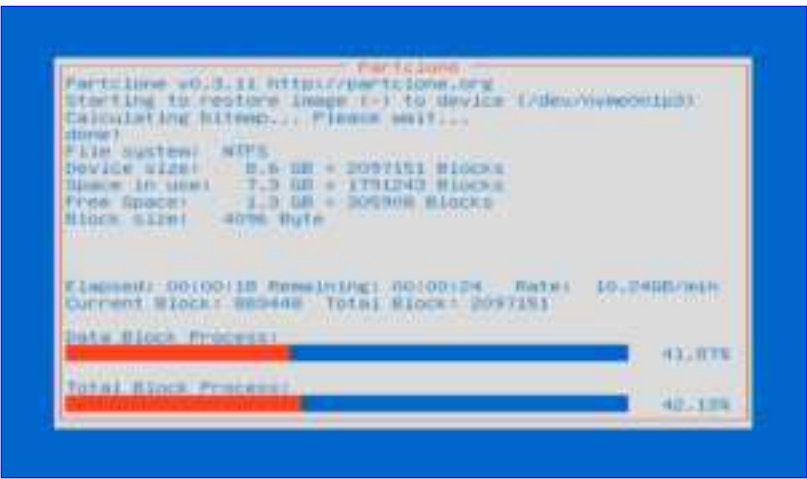


NOTE: If you don't see a counter, it means the display device is slow to lock to the output using DisplayPort. Press Esc repeatedly after power-on to move to the menu below.

7. Select the desired reset option in the menu that appears, and press Enter.



8. IMPORTANT: There will be no confirmation: the reset process starts immediately, providing some visual feedback.

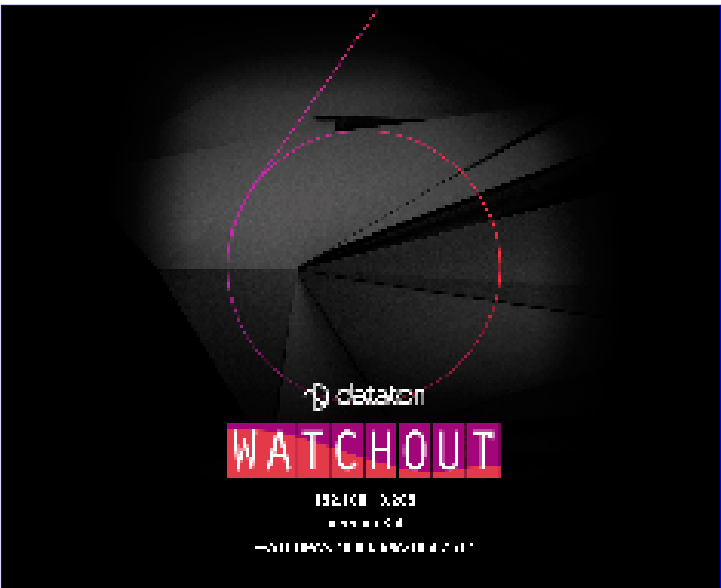


9. The WATCHPAX 40 will restart several times in order to configure the operating system and hardware.



IMPORTANT: Do not power off the device during the configuration process!

10. WATCHOUT will start when the process is complete. The system image version will be appended after the serial number (r14 in this example).



DELETE FILES

To remove unused files from the WATCHPAX unit, open WATCHOUT on the production computer on the network. Go to the Stage menu, as below:

Stage > Manage Display Computer > Delete Other Shows

This deletes files from online display computers for all shows, with the exception of the current (open) show.

REBUILD SHOW CACHE

WATCHOUT usually manages the cached data associated with the current (open) show automatically. This ensures that the files stored on your WATCHPAX 40 reflect the latest version of the show.

If the files on the WATCHPAX 40 have been corrupted in some way, you may want to force the show cache to rebuild.

Open WATCHOUT on the production computer on the network. Go to the Stage menu, as below:

Stage > Manage Display Computer > Re-build Show Cache

This removes and rebuilds all cached data associated with the current show.

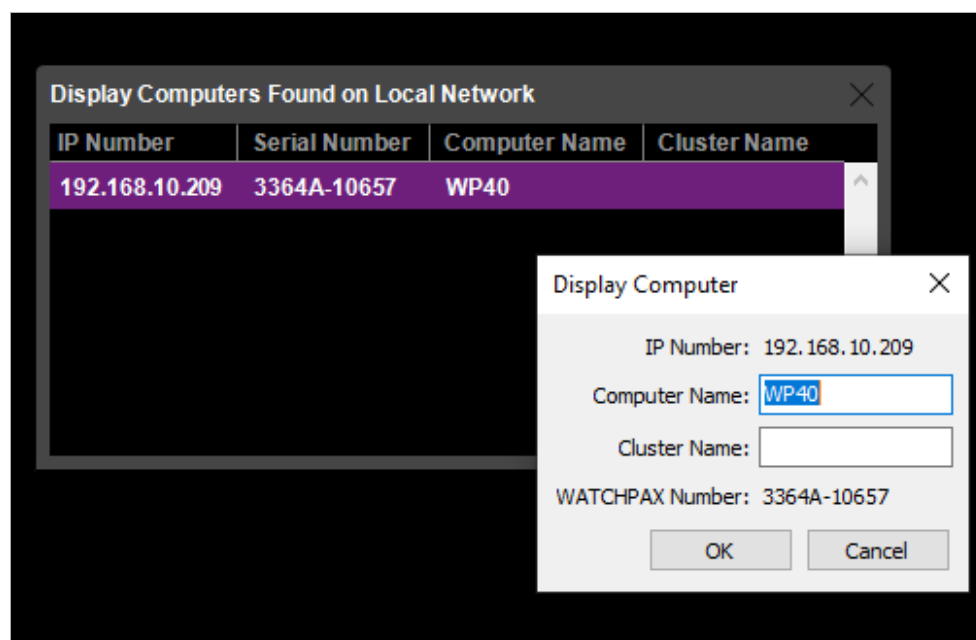
3. QUICKSTART GUIDE

THE BASICS

- Connect displays to the WATCHPAX 40 using the DisplayPort outputs and adapters.
- Connect the WATCHPAX 40 to the network using the Ethernet port.
- Power up the WATCHPAX 40 (see “Power On”).
- Start WATCHOUT software on the production computer which is on the same network. Make sure you are using WATCHOUT version 6.4 or higher.
- The WATCHPAX and any WATCHOUT display computers on the local network will be listed in *Window > Network*. Assign display and cluster names (if required) by double-clicking an item in the list, see screenshot.

MANAGE NETWORK SETTINGS

WATCHPAX automatically retrieves an IP address via a DHCP server. If no DHCP server is available, the WATCHPAX will get a self-assigned IP address in the range 169.254.x.y



WATCHPAX 40 on the network

If you are using a control system, you may want to use a fixed IP address for WATCHPAX. Still in WATCHOUT, assign a fixed IP through the WATCHOUT protocol command “setIP” in the Startup Script as shown below:

```
authenticate 2  
setIP 192.168.0.32
```

Make sure you choose an IP address in the correct subnet range. To remove the fixed IP number, use the same command but with an empty string parameter, as below:

```
authenticate 2  
setIP
```


The WATCHPAX 40 may also be addressed by name and/or cluster. Please see the “Network Window” section in Chapter 3: Windows, “WATCHOUT User’s Guide” for more information about this feature.

SET NATIVE RESOLUTION

Double-click the display in the Stage window and set the native resolution of your screen or projector, see screenshot.



Display: Display 1

General Geometry Mask Advanced

Display Name: Display 1

Computer:

Enabled: ☒ Use this display

Connection: offline Test Connection

Color: Change...

Output Configuration:

Device: GRAPHICS CARD

Resolution: HD-1080 1920x1080

Channel: 1

Display Resolution:

Width: 2048 Height: 1080

Stage Position and Size of Display:

Left: 36 Top: 100

Width: 2048 Height: 1080

☒ Width and Height same as Display Resolution

Rotation: 0 degrees clockwise

Stage Position of Display Center:

X: 1060 Y: 640 pixels

AUTO START

A WATCHOUT production computer has to be connected when you compose or create your show. Once you have composed your show, you can replace the production computer with an external control system, or auto-start the WATCHPAX by using the built-in Startup Script.

NOTE: Use Edit Startup Script in WATCHOUT to define initial WATCHPAX settings. This lets you load shows and perform other WATCHOUT protocol commands. For more information, please see the section on “Display Software,” Command Line Options, “WATCHOUT User’s Guide”.

4. EDID MANAGEMENT

Extended Display Identification Data (EDID) is a standardized data format for a display, such as a projector, screen or monitor, to describe its performance capability to a video source (in this case, WATCHPAX 40). The information exchanged in an EDID handshake includes the resolution, refresh rates and timings available in the display.

This section is a walkthrough on how to manage EDID on a WATCHPAX 40 using NVIDIA's control panel. The following functionality is provided:

- Export EDID from a display to file.
- Load EDID from file in order to emulate EDID on one or multiple outputs. This makes it possible to output a signal whether a display is connected or not.
- Unload the emulated EDID in order to switch to the EDID of a connected display device.

HINT: For fixed installations it's recommended to emulate EDID for a more robust operation. This makes the WATCHPAX independent of the power state of the connected display device(s).

ACCESS EDID MANAGEMENT SETTINGS

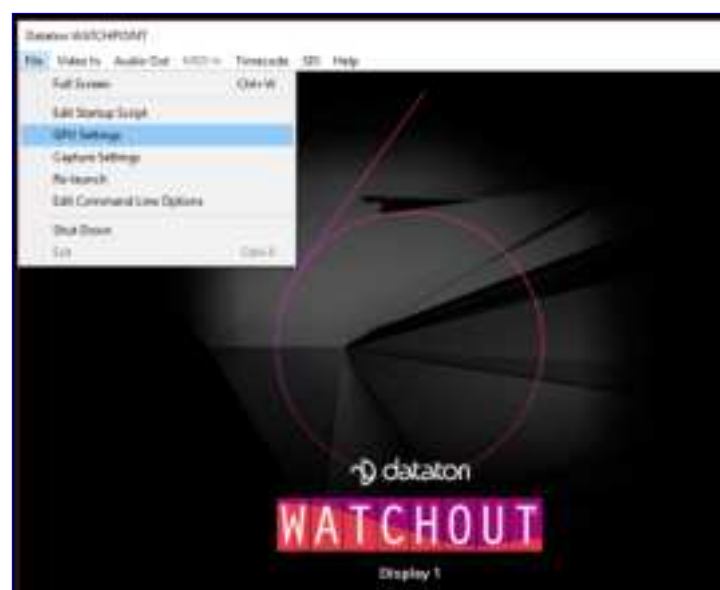
To configure and setup EDID, access each media server locally. Do this either by a *Remote Access* (from the WATCHOUT production computer) or connect a USB keyboard/mouse and screen to your WATCHPAX 40.

Connecting by Remote Access will automatically bring up the WATCHOUT Display window (WATCHPOINT). If you are using a local keyboard/mouse and screen, enter Ctrl-W to bring up this window.

You'll find more on this in the "Dataton WATCHOUT User's Guide" in the section on "Display Devices" (Chapter 2: Installation) and "Remote Access" (Chapter 4: Commands).

Follow this procedure to access EDID management settings:

1. In the menu select *File > GPU Settings*.



OUTPUT MAPPING

When you enter the unit’s NVIDIA system topology settings (“4. EDID Management”), you will see that five DisplayPort outputs are listed although there are only four physical connectors on the unit.

System topology	Status	Settings
System		
Driver version		440.97
Vertical sync	✓	3D Application controlled
3D Stereo		Enabled
Quadro P3000		
DisplayPort (1)	Not connected	EDID (Monitor) , Multi-Display Cloning (Disabled)
DisplayPort (4)	Connected: DELL U2414H	EDID (Monitor) , Multi-Display Cloning (Disabled)
DisplayPort (2)	Not connected	EDID (Monitor) , Multi-Display Cloning (Disabled)
DisplayPort (3)	Not connected	EDID (Monitor) , Multi-Display Cloning (Disabled)
DisplayPort (5)	Not connected	EDID (Monitor) , Multi-Display Cloning (Disabled)

The outputs are mapped as below:



IMPORTANT: “DisplayPort (1)” in NVIDIA system topology settings is not used by WATCHPAX, please see warning at “Load EDID”. Do not load EDID on this output!

EXPORT EDID

It's possible to export EDID files to external USB devices or to store them locally on the W:\ drive. Files stored on the system (C:\) might be overwritten.

1. To export EDID from a display, select an active display and the Export tab (figure 4).

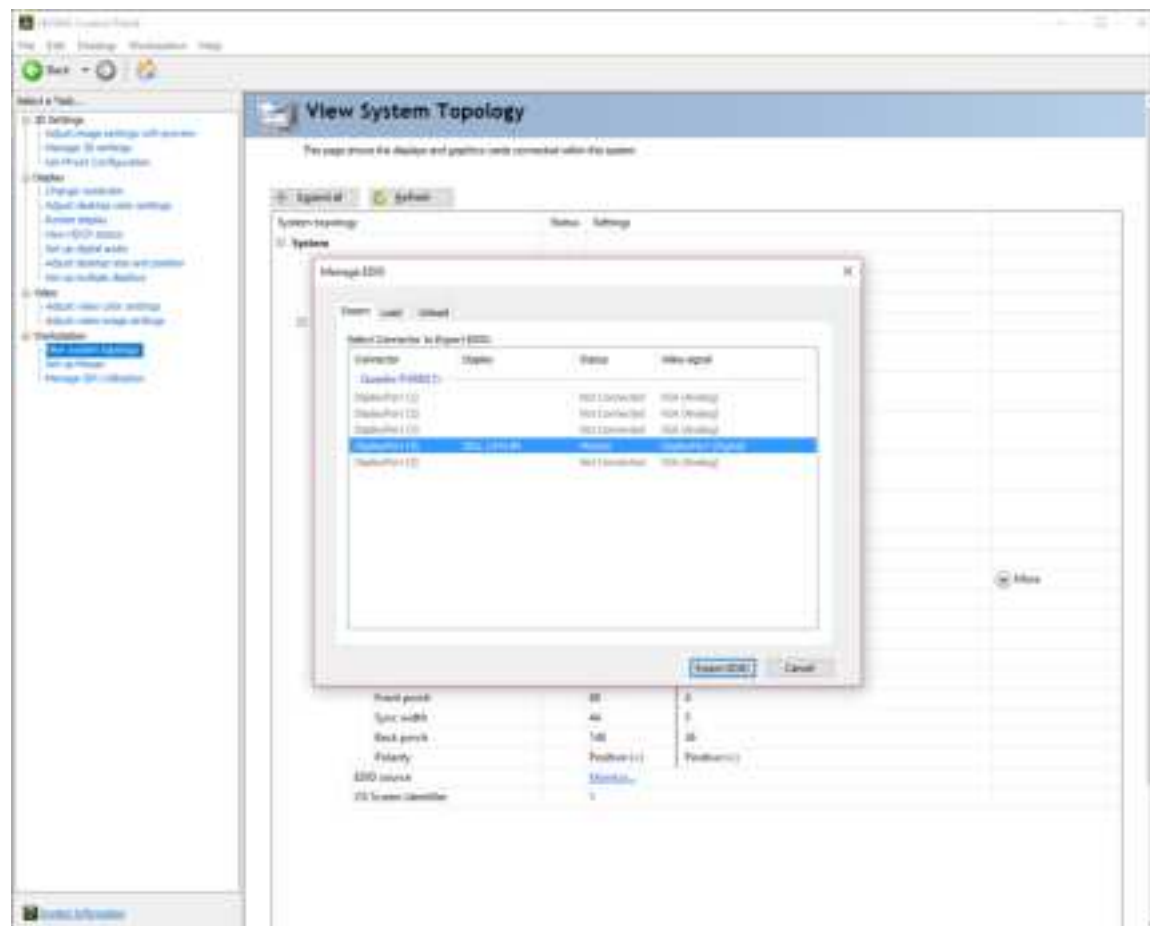


Figure 4

2. Select Export EDID - you will be prompted to save the EDID.

Note: The EDID will be saved in a clear text file as a string of hex characters.

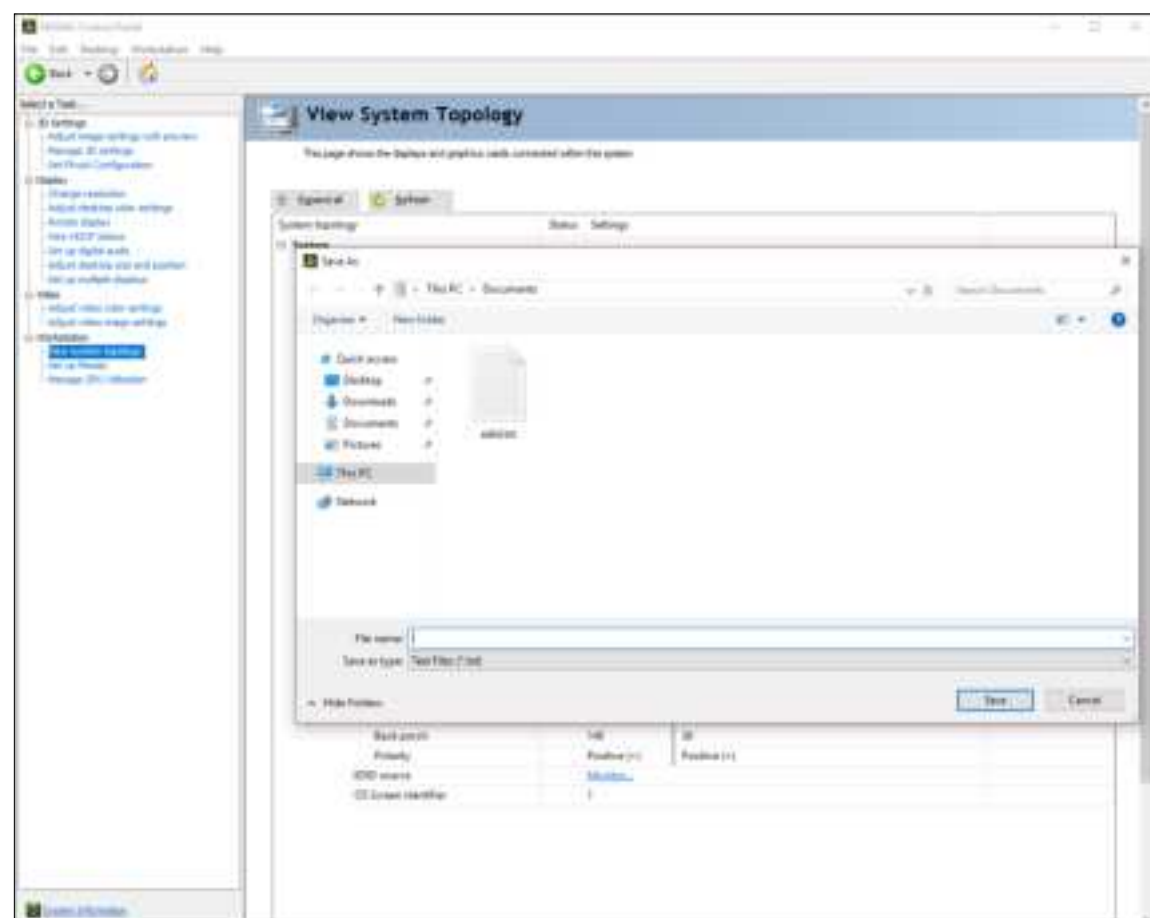


Figure 5

LOAD EDID

You can emulate an EDID on selected display/s from file.

Note: EDID generators use proprietary file formats. Externally generated EDID files should therefore be converted to plain text before import. This is also true for AMD as their driver exports to .bin files. Copy the raw EDID (the window that shows hexadecimal pairs) from the driver and save as .txt file before import.

IMPORTANT: Do not load any EDID settings on DisplayPort 1 as it is inactive, see “Output Mapping”. If you load EDID on this, you will occupy a port in the NVIDIA system and effectively deactivate one of your other ports. This can only be resolved with a factory reset!

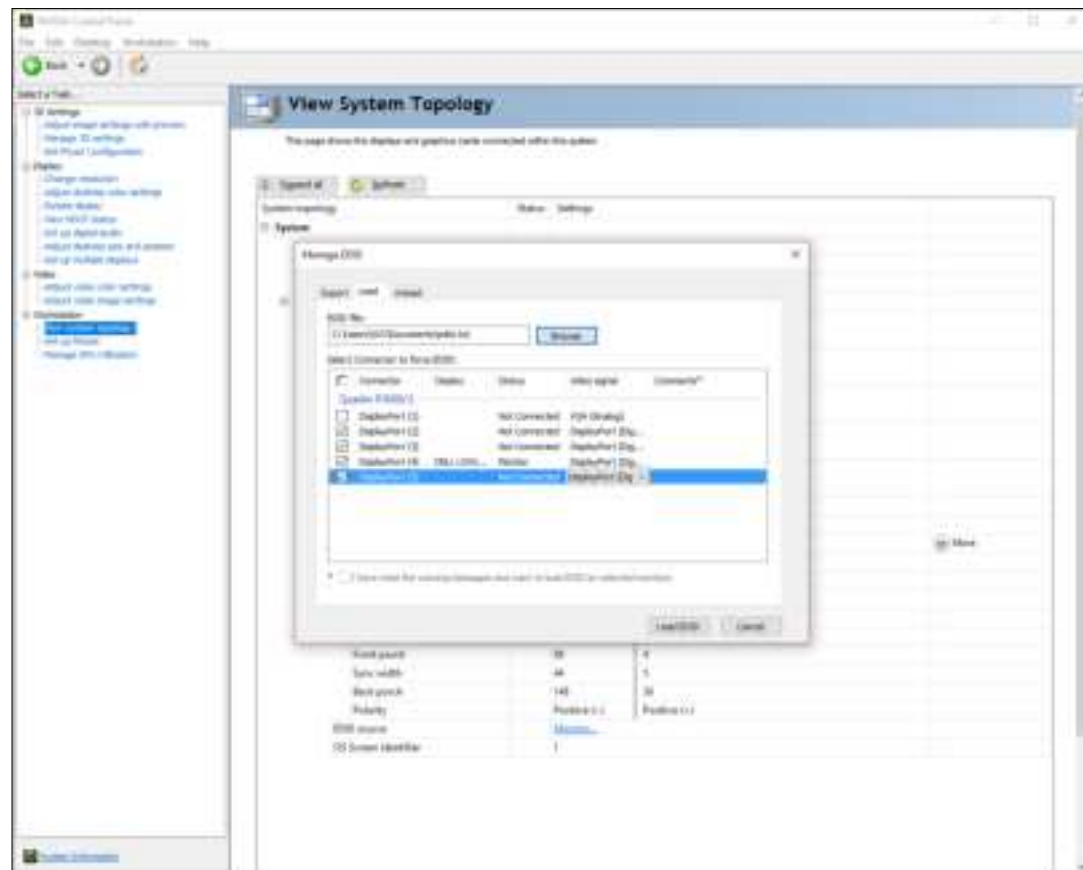


Figure 6

1. Select the “Load” tab. Select the EDID you want to load using the “Browse” button.
2. Select the port or ports(s) you want to load the EDID to.
3. Press the “Load EDID” button.
4. On-screen confirmation is shown.

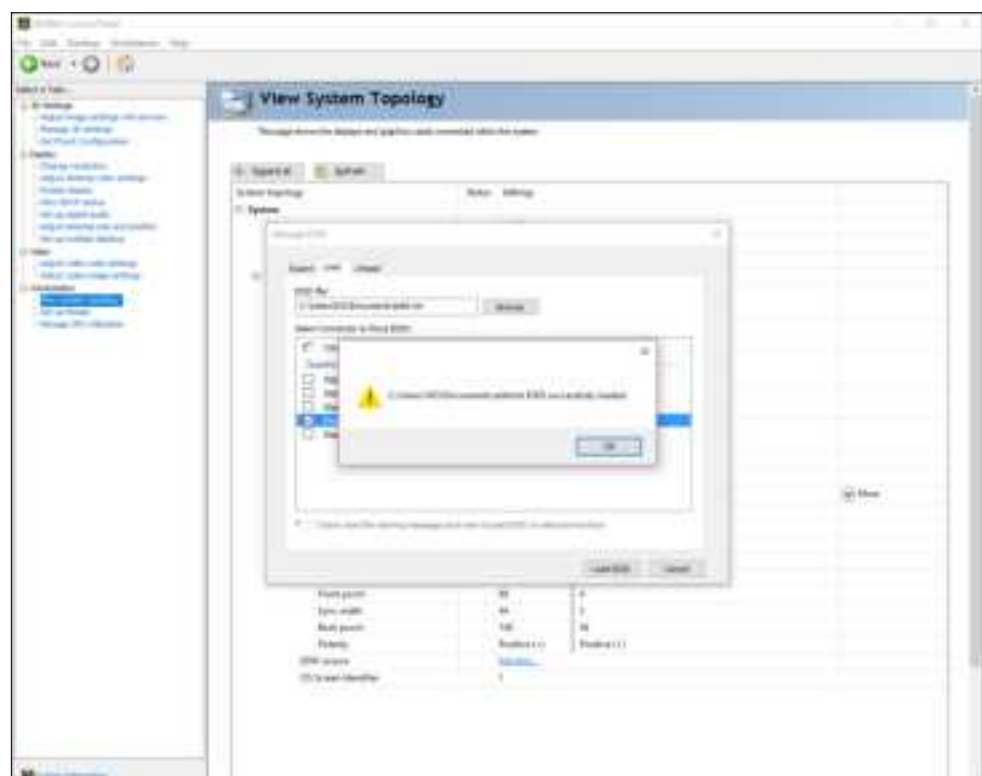
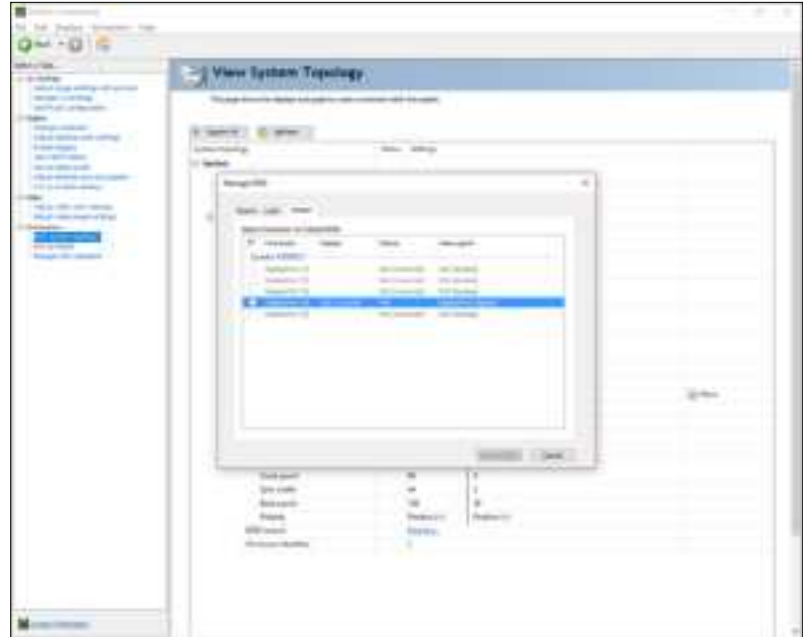


Figure 7

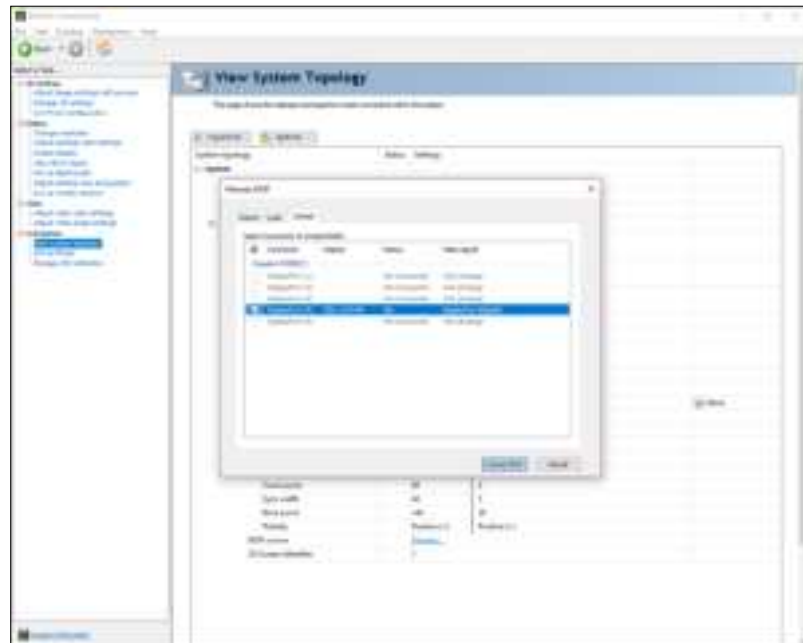
UNLOAD EDID

You can also remove (unload) the EDID on selected displays.

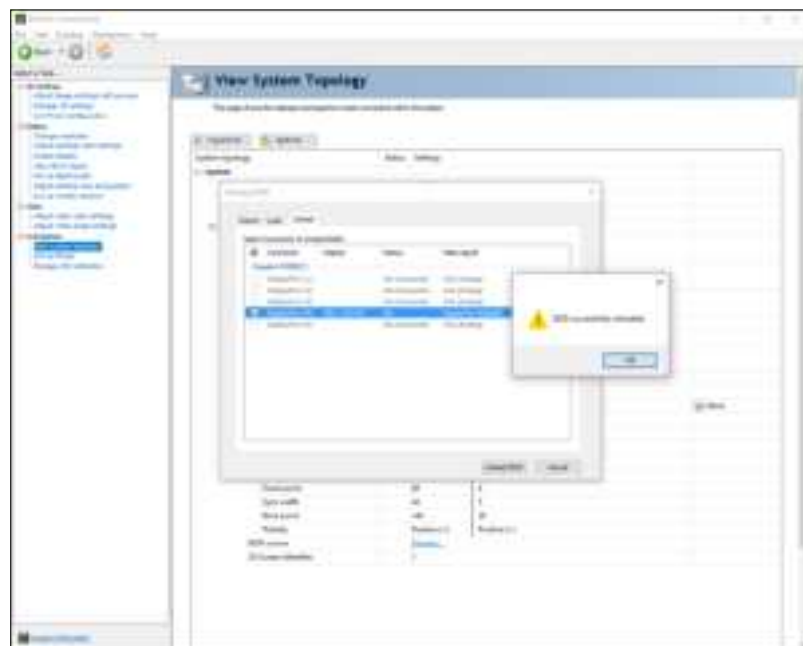
1. Select the Unload tab.



2. Select the display to unload and press Unload EDID.



3. You will see an on-screen confirmation.



5. SUPPORTED FORMATS

DISPLAYPORT OUTPUT FORMATS

WATCHPAX 40 complies with DisplayPort version 1.4.

ADAPTERS

The usage of passive adapters is not recommended as it may result in a lower maximum resolution.

HDCP

High-bandwidth digital content protection (HDCP) is not supported by WATCHOUT.

PLAYBACK FORMATS

SUPPORTED PLAYBACK FORMATS
MPEG-2/H.262
AVC/H.264
HAP
HAP Q
HAP Alpha
Prores 422 Proxy
Prores 422 LT
Prores 422
Prores 422 HQ
TGA
TGA + Alpha
TIFF
TIFF + Alpha

HARDWARE ACCELERATED VIDEO FORMATS

WATCHPAX 40 supports GPU-accelerated video decoding. Hardware acceleration is enabled by default in WATCHOUT and this property can be changed by the user per media item. The codecs supported are listed below.

CODEC	MAX COLOR	MAX RESOLUTION	MAX LEVEL	MAX PROFILE	FORMAT
AVC/H.264	8-bit	4096 × 4096	5.2	High	4:2:0
MPEG-2/H.262	8-bit	4080 × 4080	n/a	n/a	4:2:0

6. WARRANTY, CONFORMITY AND DISPOSAL

LIMITED WARRANTY

DATATON AB ("Dataton") DATATON AB ("Dataton") warrants this hardware product against defects in materials and workmanship for a period of seven hundred and thirty (730) days from the date of original retail purchase.

If you discover a defect, Dataton will, at its option, repair, replace, or refund the purchase price of this product at no charge to you, provided you return it during the warranty period, in the original packaging, transportation charges pre-paid, to the authorized Dataton vendor from whom you purchased it, any other authorized Dataton sales point in the country of the original retail purchase or to Dataton itself. More information is available from Dataton AB, see address.

When returning an item, you are advised to first contact the vendor or Dataton. You should then fill in the RMA (Return Merchandise Authorization) form available on www.dataton.com stating your name, address, contact details, a description of the problem, serial numbers and point of purchase. Dataton also requires a copy of the bill of sale or packing list bearing the appropriate Dataton serial numbers (where applicable) as proof of the date of original retail purchase.

This warranty applies only to hardware products manufactured by Dataton AB which are labeled with the Dataton logo and returned in the original packaging. This warranty does not apply if the product has been damaged by accident, abuse, misuse or misapplication, nor if the product has been opened or modified without the written permission of Dataton, nor if any serial number has been removed or defaced.

All implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to seven hundred and thirty (730) days from the date of original retail purchase of this product. The warranty and remedies set forth above are exclusive and in lieu of all others, oral, written, express or implied.

No Dataton dealer, agent or employee is authorized to make any modification, extension or addition to this warranty.

Dataton is not responsible for special, incidental or consequential damages resulting from any breach of warranty, or under any legal theory, including lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any costs of recovering, reprogramming or reproducing any program or data stored in or used with Dataton products.

Dataton AB
Teknikringen 22
SE 583 30 LINKÖPING
Sweden

Email: warranty@dataton.se

FCC NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following 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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Use of a shielded Ethernet cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

DECLARATION OF CONFORMITY

Model number: 3364

Description: Media player/display server

Responsible manufacturer: Dataton AB

Address: Teknikringen 22, SE-583 30 Linköping, Sweden



Dataton AB hereby declares that the product listed above, to which this Declaration of Conformity relates, adheres to the directives below:

RoHS 2011/64/EU, with exception of a non rechargeable lithium battery (ML2430HJ) powering the RTC (real time clock) circuitry

WEEE 2012/19/EU

European Chemicals Regulation (REACH) 1907/2006/EC

LVD 2014/35/EU

EMC 2014/30/EU

All conformity testing has been done by an independent third-party testing body. The following harmonized standards have been practiced:

EN (CISPR) 55022:2010

EN (CISPR) 55024:2010

EN (CISPR) 55032:2012

IEC 60950-1:2005+A1+A2 (EN 60950-1:2006+A11+A1+A12+A2)

47 CFR, FCC Part 15, Subpart B, Class B equipment

Linköping, November 28, 2016

A handwritten signature in blue ink, appearing to read 'Björn'.

Björn Sandlund
Chairman of the Board

DISPOSAL

Only for European Union and EEA (Norway, Iceland and Liechtenstein)



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU), the Battery Directive (2006/66/EC) and/or national legislation implementing those Directives.

If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal.