

# USER'S GUIDE DATATON WATCHPAX 30



SENSATION CREATION

 dataton

# DATATON WATCHPAX 30 – USER’S GUIDE

<b>1. INTRODUCTION</b>	3
Accessories	3
Dimensions	3
Power	3
Start up Screen	4
Switching between WATCHOUT versions	5
From WATCHOUT 7 to WATCHOUT 6	5
From WATCHOUT 6 to WATCHOUT 7	5
Environmental	7
Media Server Operating System	7
Connectors	8
<b>2. INSTALLATION AND OPERATION</b>	9
Before Using Your WATCHPAX 30	9
Safety First	9
Ventilation	10
Installation	10
General	10
Standalone Installation	10
Power On	11
First Power On	11
Power Off	11
Quick Start	11
Reset WATCHPAX 30	12
Reset and Keep User Data	12
Reset to Factory Settings	12
Reset Procedure	13
<b>3. EDID EMULATORS</b>	15
Installation	15
Turn on Backup Mode	15
<b>4. WARRANTY, CONFORMITY AND DISPOSAL</b>	17
Limited Warranty	17
Declaration Of Conformity	18
Disposal	19

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

Download WATCHOUT: [dataton.com/downloads](https://dataton.com/downloads)

# 1. INTRODUCTION

WATCHPAX 30 is a dedicated media server with four HDMI video outputs and a built-in Dataton WATCHOUT 6 and 7 license.

WATCHPAX 30 is a locked-down unit, preconfigured for playback of WATCHOUT shows only.

WATCHPAX 30 has a handy compact format making it easy to transport. Other practical details include rubber bumpers and Kensington security slot.



## **ACCESSORIES**

Included: Power cord and four EDID emulators.

## **DIMENSIONS**

Width 215 mm  
Height 32 mm  
Depth 176 mm  
Weight 1550 g

## **POWER**

IEC C6 power inlet  
Input voltage 100 – 240V AC  
Power consumption max 60 W

## START UP SCREEN

*IMPORTANT: The WATCHPAX 30 always starts up with WATCHOUT 7 as default.*

This screen (Fig.2) is shown on all display devices connected to the WATCHPAX 30 at start-up with WATCHOUT 7.

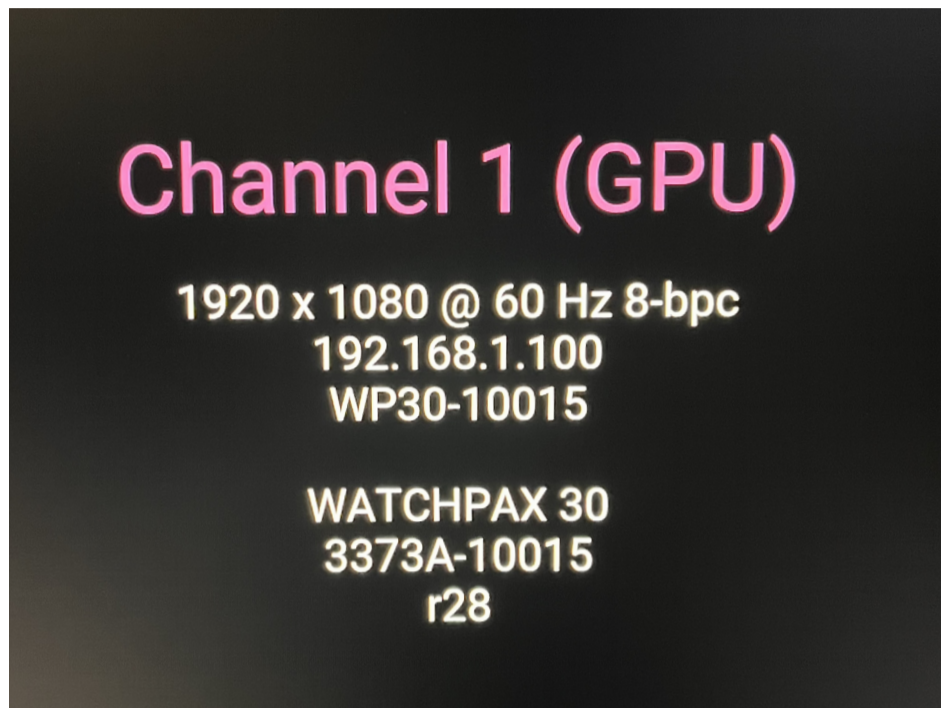


Figure 2

This screen below (Fig. 3) is shown on all display devices connected to the WATCHPAX 30 at start-up with WATCHOUT 6.



Figure 3

## SWITCHING BETWEEN WATCHOUT VERSIONS

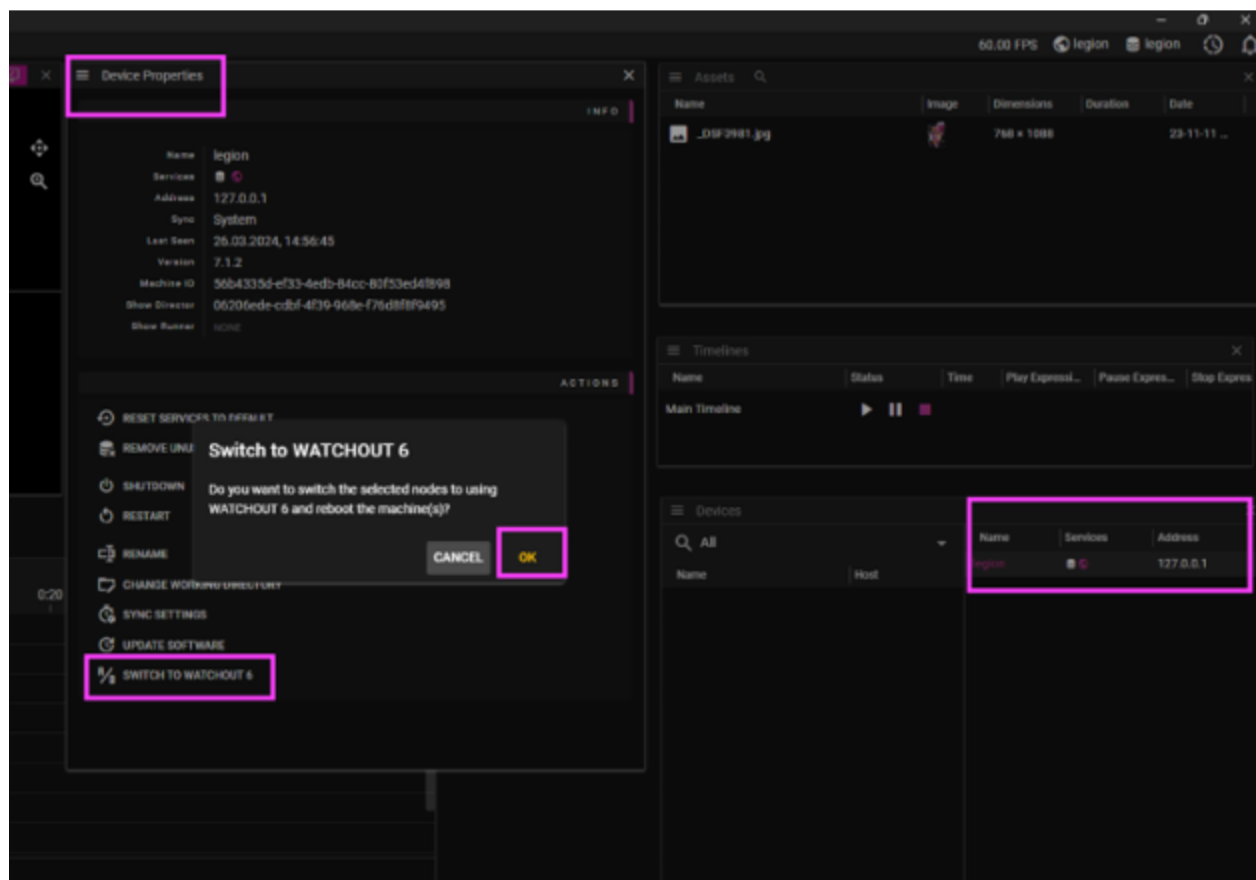
By default, WATCHPAX 30 starts in version 7 mode but you can switch to version 6, and vice versa.

### FROM WATCHOUT 7 TO WATCHOUT 6

You can switch from WATCHOUT version 7 to version 6 using the Producer interface in WATCHOUT version 7.

- Connect your WATCHPAX 30 unit and open the WATCHOUT 7 Producer
- Go to the Devices window
- From the list of devices, choose your WATCHPAX
- The Device Properties window will open automatically
- Scroll down in the Device Properties window and choose "Switch to WATCHOUT 6"
- Press OK in the pop-up window to confirm

This will cause WATCHPAX to reboot and it then starts in WATCHOUT 6.



### FROM WATCHOUT 6 TO WATCHOUT 7

There are two ways to switch from version 6 on your WATCHPAX 30 to version 7: from the WATCHOUT 6 production computer or locally from the WATCHPAX media server.

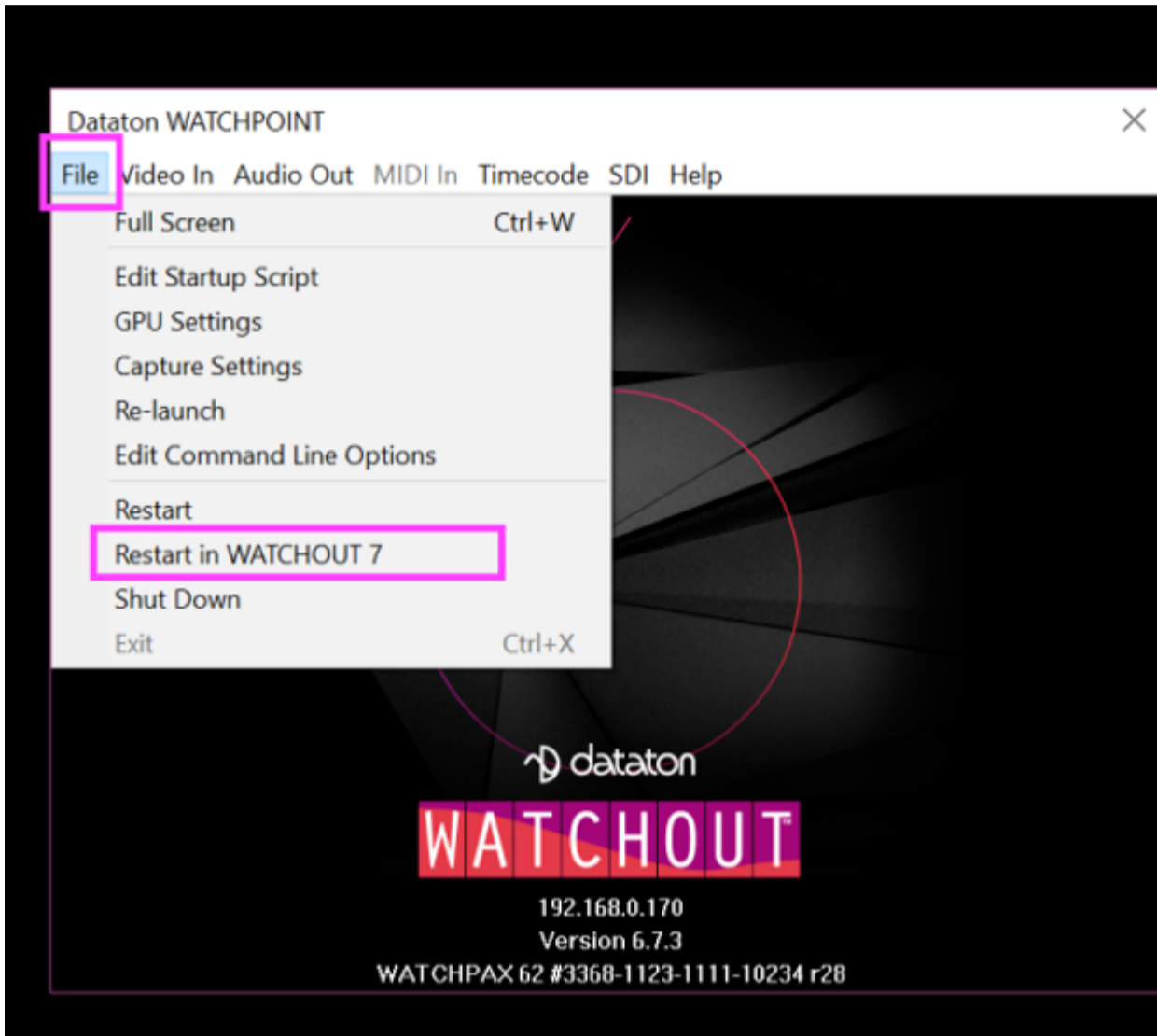
From WATCHOUT 6 production computer:

- Choose one of the displays from WATCHPAX media server
- On the Stage menu, choose "Manage Display Computer" then "Remote Access"
- On the File menu, choose "Restart in WATCHOUT 7"

Locally from the WATCHPAX media server:

- Connect a keyboard and mouse to the USB ports and a display to a HDMI output
- Power up the server
- When you see the WATCHOUT 6 splash screen, press Ctrl+W
- On the File Menu, select "Restart in WATCHOUT 7"

This will cause WATCHPAX to reboot and it then starts WATCHOUT 7.



## **ENVIRONMENTAL**

### *Temperature range*

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

Operating 0°C to +35°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 30 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.

## CONNECTORS



Power connector

HDMI x 4

USB 2.0 x 2, USB 3.2 x 2

Ethernet port x 2

Audio x 2

Kensington lock



On/off switch is located immediately behind the middle hole. Use a pencil or plastic tip to press. **Do not use a metal implement!**



## 2. INSTALLATION AND OPERATION

### **BEFORE USING YOUR WATCHPAX 30**

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 30 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**

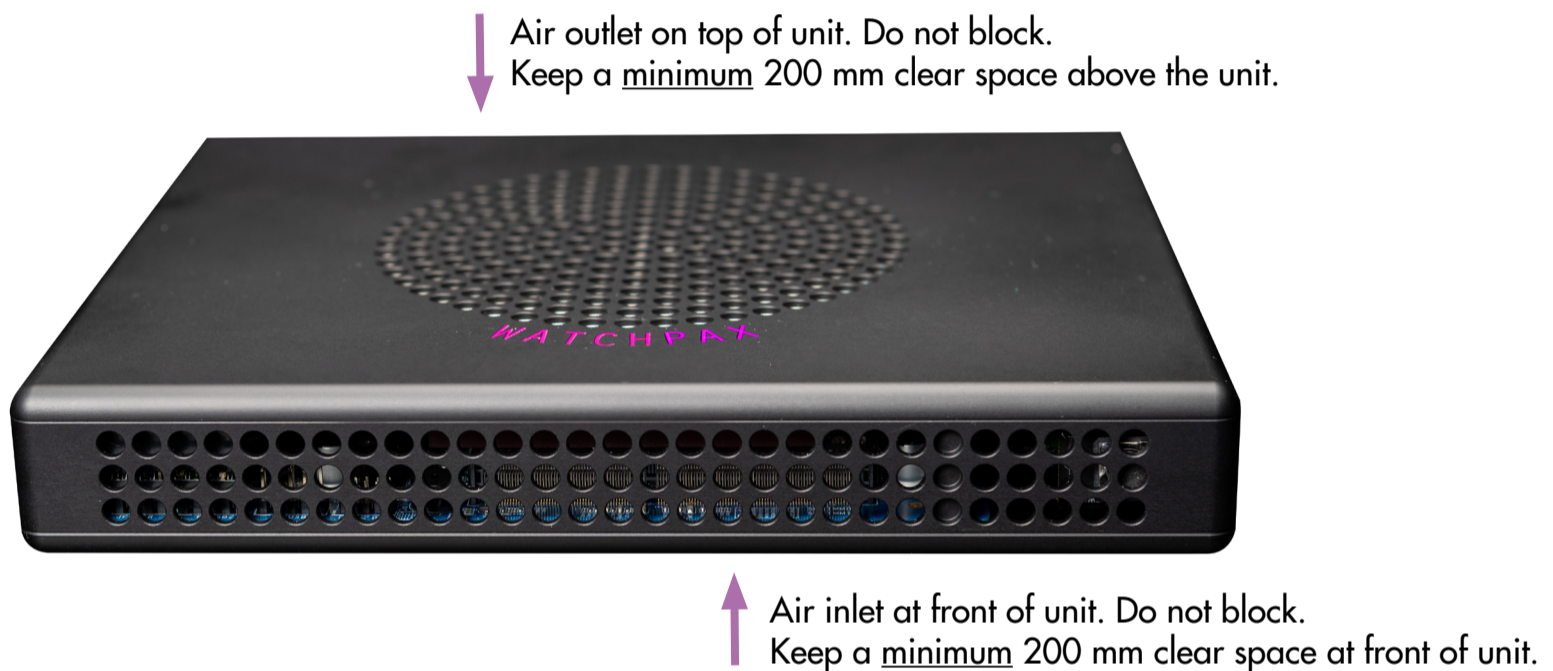
- Insert the power plug all the way in, so it is not loose.
- Do not place the power cord or product near heat sources.
- Caution: shock hazard if handled carelessly or inaccurately.
- The unit shall be connected to a grounded outlet.
- Do not use a damaged power cord or plug.
- Do not touch the power 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 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.
- 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.

- 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 30. Do not stack units or place any items on top of the WATCHPAX 30.

In any installation, there should always be a minimum of 200 mm clear space at front and 200 mm above 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 30 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 30 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.

## **POWER ON**

The unit is switched on by inserting the power cord or inserting the power cord and using the on/off switch. The discreet on/off switch is located behind the front plate of the WATCHPAX 30 (see “Connectors” on page 8).

**IMPORTANT:** Use a pencil or similar insulated tool to press the on/off switch. Do not use a metal implement.

## **FIRST POWER ON**

The first time you power up a WATCHPAX 30 (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/Producer software or by using the on/off switch.

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

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

## **QUICK START**

- Connect displays to the WATCHPAX 30 using the HDMI outputs.
- Connect the WATCHPAX 30 to the network using the Ethernet port.
- Power up the WATCHPAX 30.
- Start WATCHOUT software on the production computer which is on the same network. Make sure you are using WATCHOUT version 7, or WATCHOUT version 6.7.3, or higher.

## RESET WATCHPAX 30

There are occasions when you may want to reset a WATCHPAX 30, for example, if the unit has been corrupted, or if it is 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 and 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

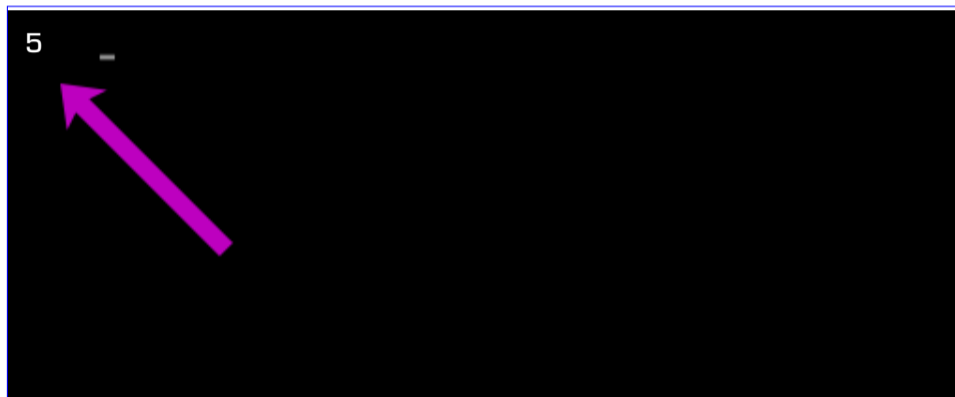
### RESET TO FACTORY SETTINGS

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 30 device, follow these steps:

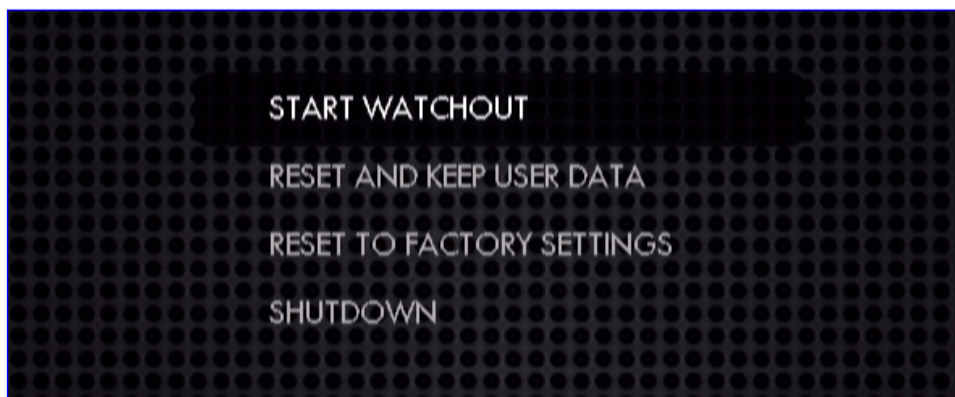
1. Power off the WATCHPAX 30.
2. Disconnect any USB devices.
3. Now connect a keyboard to one of the USB ports.
4. Connect at least one display device to an HDMI output.
5. Power on the WATCHPAX 30.
6. During startup, you will see a five-second countdown in the top left corner of the display. Press Esc during this countdown.



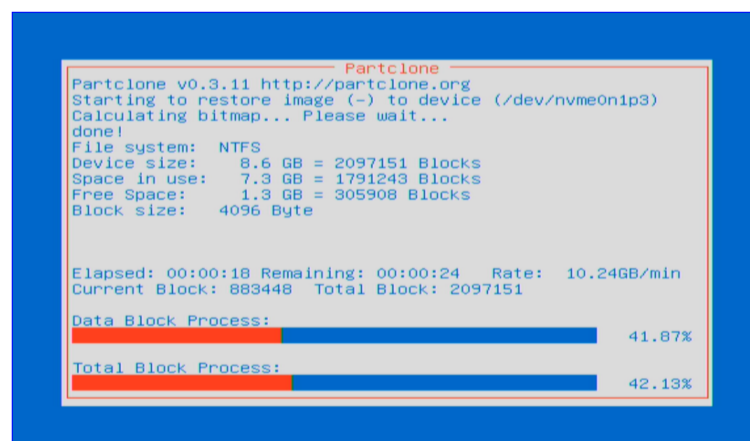
NOTE: If you don't see a counter, it means the display device is slow to lock to the output. In that case, press Esc repeatedly after power-on to move to the menu below.

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

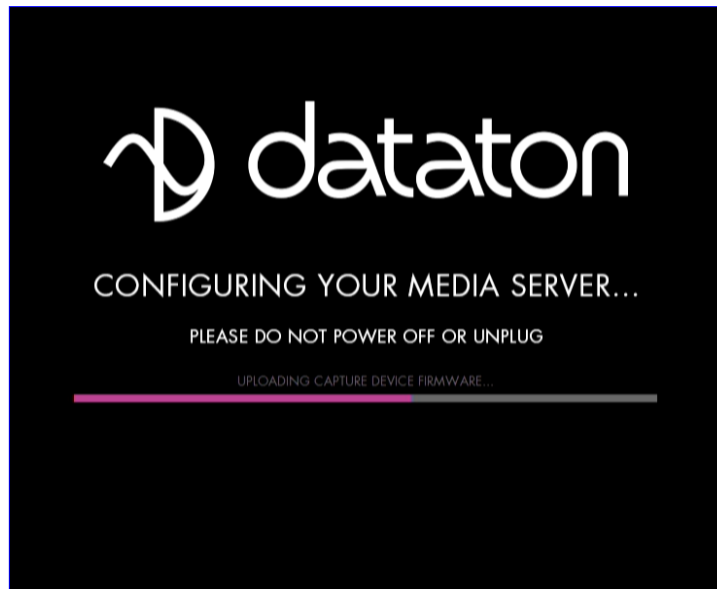
**IMPORTANT:** There will be no confirmation – the reset process starts immediately!



8. As noted above, the reset process starts immediately, providing some visual feedback.

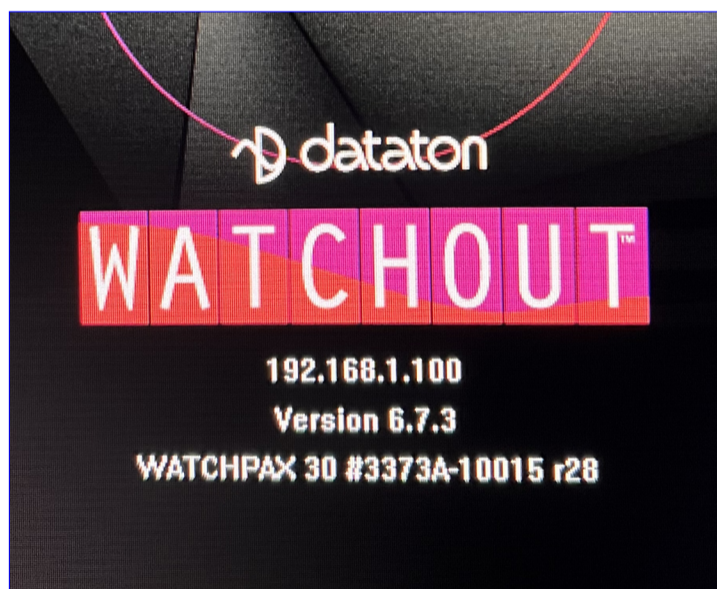


9. The WATCHPAX 30 will restart several times in order to configure the operating system and hardware.



**IMPORTANT:** Do not power off the unit during the configuration process!

10. WATCHOUT will start when the process is complete. The system image version will be appended after the serial number.



## 3. EDID EMULATORS

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 30). The information exchanged in an EDID handshake includes the resolution, refresh rates and timings available in the display.

### INSTALLATION

Plug the emulator directly to the HDMI outputs on the back of the WATCHPAX 30. Connect the display's cable to the emulator. The emulator will be in default mode. Please note: If you change the resolution to one supported by the emulator, but not by the display, the display will not work.

### TURN ON BACKUP MODE

Disconnect the cable between the display and the emulator. The emulator will turn on backup mode and its LED will start flashing. When backup mode is turned on, two different modes can be selected:

A. Copy display EDID while the LED is flashing, connect the display to the emulator. The emulator will copy the EDID data. The data will be permanently stored in the emulator, even when it is removed from the video source.

B. Reset the emulator to default settings while the LED is flashing, do not connect anything to the emulator. The LED will stop flashing after 10 seconds, and the emulator will recover to the default factory settings.

*IMPORTANT: When the emulator is connected to the running WATCHPAX 30, do not unplug the connected monitor cable, otherwise the stored EDID data can be erased.*

VESA BLOCK - ESTABLISHED TIMINGS I
720 x 400 @ 70Hz (IBM, VGA)
640 x 480 @ 60Hz (IBM, VGA)
640 x 480 @ 67Hz (Apple, Mac II)
640 x 480 @ 72Hz (VESA)
640 x 480 @ 75Hz (VESA)
800 x 600 @ 56Hz (VESA)
800 x 600 @ 60Hz (VESA)

VESA BLOCK - ESTABLISHED TIMINGS II
800 x 600 @ 72Hz (VESA)
800 x 600 @ 75Hz (VESA)
832 x 624 @ 75Hz (Apple, Mac II)
1024 x 768 @ 60Hz (VESA)
1024 x 768 @ 70Hz (VESA)
1024 x 768 @ 75Hz (VESA)
1280 x 1024 @ 75Hz (VESA)

**VESA BLOCK - MANUFACTURER'S TIMINGS**

1152 x 870 @ 75Hz (Apple, Mac II)

**VESA BLOCK - STANDARD TIMINGS**

1152x864 @ 75 Hz (4:3)

1280x1024 @ 60 Hz (5:4)

1280x960 @ 60 Hz (4:3)

1440x900 @ 60 Hz (16:10)

1600x1200 @ 60 Hz (4:3)

1680x1050 @ 60 Hz (16:10)

1920x1080 @ 60 Hz (16:9)

1920x1200 @ 60 Hz (16:10)

**VESA BLOCK - DETAILED TIMINGS**

1920x1080 @ 60Hz

3840x2160 @ 30Hz

2560x1600 @ 60Hz

**CEA BLOCK**

3840x2160p @ 60Hz

3840x2160 @ 24Hz (16:9)

1920x1080p @ 59.94/60Hz - HDTV (16:9, 1:1)

1920x1080i @ 59.94/60Hz - HDTV (16:9, 1:1)

1280x720p @ 59.94/60Hz - HDTV(16:9, 1:1)

720x480p @ 59.94/60Hz – EDTV (16:9, 32:27)

720x480p @ 59.94/60Hz - EDTV (4:3, 8:9)

640x480p @ 59.94/60Hz - EDTV (4:3, 1:1)

720x576p @ 50Hz - EDTV (4:3, 16:15)

720x576p @ 50Hz - EDTV (16:9, 64:45)

1280x720p @ 50Hz - HDTV (16:9, 1:1)

1920x1080i @ 50Hz - HDTV (16:9, 1:1)

1920x1080p @ 50Hz - HDTV (16:9, 1:1)

1440x480p @ 59.94/60Hz (4:3, 4:9, 8:9)

1440x480p @ 59.94/60Hz (16:9, 16:27, 32:27)

1440x576p @ 50Hz (4:3, 8:45, 16:15)

1440x576p @ 50Hz (16:9, 32:45, 64:45)

720 (1440)x480i @ 59.94/60Hz - SDTV (4:3, 8:9)

720 (1440)x480i @ 59.94/60Hz - SDTV (16:9, 32:27)

720 (1440)x576i @ 50Hz - SDTV (4:3, 16:15)

720 (1440)x576i @ 50Hz - SDTV (16:9, 64:45)

2560x1440 @ 60Hz (16:9)

1920x1200 @ 60Hz (16:9)

1920x1080 @ 60Hz (16:9)



## 4. 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](http://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.

\*If extended warranty terms have been agreed with Dataton at purchase, proof shall be presented.

Dataton AB  
Teknikringen 22  
SE 583 30 LINKÖPING  
Sweden

Email: [business@dataton.se](mailto:business@dataton.se)

## DECLARATION OF CONFORMITY

Model number: 3373

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 and is in conformity with the standards listed below:

FCC – Complies with	FCC Part 15, subpart B Industry Canada ICES-003, Issue 7
CE – Complies with	EN 55032:2015 +A11:2020 EN 55035:2017 +A11:2020 EN 61000-3-2:2019 +A1:2021 EN 61000-3-3:2013 +A1:2019 +A2:2021 VCCI-CISPR 32:2016 Class A, CISPR 16-2-1:2017, Ed.3.1 VCCI-CISPR 32:2016 Class A, CISPR 16-2-3:2019, Ed.4.1
Safety – Complies with	IEC 62368-1:2014 IEC 62368-1:2018 IEC 62368-3:2017 EN 62368-1:2014 +A11:2017 CSA C22.2 No. 62368-1:2014 UL 62368-1 Ed.2 J62368-1 (2020) AS/NZS 62368.1:2018
RoHS – Complies with	RoHS Directive 2011/65/EU
WEEE – Complies with	Directive 2012/19/EU

Linköping, April, 2024



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.