



Instructions for Use

IntelliVue XDS Software

XDS Software

Revision R.00.xx

Patient Monitoring

PHILIPS



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Introduction

These Instructions for Use are for trained healthcare professionals using the IntelliVue XDS Software (867019). Familiarize yourself with all the instructions including warnings and cautions before starting to use the XDS Software.

This guide may contain descriptions of functionality and features that are not implemented in the equipment currently shipped to Japan, and/or of products that are not currently sold in Japan due to limitations and restrictions under the applicable local laws and regulations in Japan. Please contact your local sales representative and/or Philips Customer Support for details.

In this guide:

- A **warning** alerts you to a potential serious outcome, adverse event or safety hazard. Failure to observe a warning may result in death or serious injury to the user or patient.
- A **caution** alerts you to where special care is necessary for the safe and effective use of the product. Failure to observe a caution may result in minor or moderate personal injury or damage to the product or other property, and possibly in a remote risk of more serious injury.
- A **contraindication** describes a situation, such as patient population, medical reason, or clinical condition, in which a device may not be used because the risk of use clearly outweighs any possible benefit. Always use clinical judgment to decide whether the benefit of using the device / the measurement in a specific situation outweighs the risk.

Use the software according to its intended use, as stated and described in these Instructions for Use. Disregarding the contents of the Instructions for Use is considered abnormal use.

Introducing the IntelliVue XDS Software

This introductory section gives you an overview of the XDS Software and its components. The XDS Software is highly configurable. What you see on the screen, how the menus appear and so forth, depends on the way the software has been tailored for your hospital and may not be exactly as shown here.

The IntelliVue XDS Software is a set of Windows-based PC applications which can be run on

- patient monitors fitted with iPC (integrated PC)
- a compatible desktop PC, laptop, or tablet PC
- a Terminal Server

To suit different use models, the XDS Software provides the following independently configurable components:

- XDS Remote Display
- XDS LaunchPad
- XDS Printing Service
- XDS Device Sharing Service
- XDS Database
- XDS Infrastructure Service

The installation of the IntelliVue XDS Software must be done by qualified personnel authorized to install, service, or repair the IntelliVue XDS Software. Detailed instructions regarding the installation, configuration, maintenance, IT network requirements, and system requirements for the IntelliVue XDS Software are covered in the separate *IntelliVue XDS Software Installation and Configuration Guide*. The Installation and Configuration Guide also includes a Configuration and System Verification Test which must be performed to ensure that the software has been installed properly and is ready to perform safely. This test is also required after maintenance tasks, for example an upgrade of the operating system.

If you need to change the configuration, contact your system administrator.

CAUTION

When using XDS Software on a tablet, ensure the following to prevent accidental operation:

- Keep the display of the tablet dry at all times.
 - Always lock the touchscreen when cleaning or moving the tablet.
-

XDS Remote Display

The XDS Remote Display enables remote viewing of a selected monitor in a PC window. The XDS Remote Display provides an independent screen, which can be different from the one being shown on the monitor. Additionally, if the monitor has the appropriate option and configuration, you can operate the monitor remotely from the PC.

When running on an iPC, the XDS Remote Display operates as a second display of the associated monitor. The remote display can be operated in the same way as the primary display of the monitor. However, you can also use the remote display to view another patient.

The XDS Remote Display works with the following monitors:

- Patient monitors with software revision G.0 or later, and the appropriate option.
- Fetal monitors release L.3 or later (limited functionality).

NOTE

The MP60 and MP70 patient monitors support one remote display. The MP80, MP90, MX700, MX750 (revision N.01), and MX800 patient monitors support one remote display when configured as a single-display system. The MX850 patient monitors (revision N.01 or higher), the MX100/X3, MX400-MX550, and MX750 patient monitors (revision P.0 or higher), and the 6100/6300/6500 patient monitors (revision R.0 or higher) support up to two remote displays.

XDS LaunchPad

The XDS LaunchPad makes it possible to launch PC applications from:

- the XDS Remote Display
- a patient monitor with XDS option X30, using an iPC menu or configured SmartKeys
- an icon on the Windows desktop
- a button on the Windows toolbar

The LaunchPad does not require the XDS Remote Display to be running simultaneously.

When appropriate, LaunchPad can pass the patient context (patient identifying information that applications can use to perform an automated search) and log-on information to applications at start-up.

If the XDS Remote Display application is not running, or if an application is launched from the Windows desktop using XDS LaunchPad, the patient context information is taken from the preconfigured Home Monitor.

LaunchPad can position the application being launched on a specific display, at a specific position, and with a specific size (note: some legacy applications may not respond to such a request).

XDS LaunchPad only works on patient monitors with software revision G.0 or later.

SmartKeys only work on:

- MX600, MX700, MX800, MP70-90, and MP5 or MP5SC patient monitors with software revision H.0 or later
- MX400, MX450, MX500, MX550, and MX430 patient monitors with software revision L.0 or later
- MX100 and X3 patient monitors with software revision M.0 or later.
- MX750 and MX850 patient monitors with software revision N.01 or later.
- 6100, 6300, and 6500 patient monitors with software revision R.0 or later.

XDS Printing Service

The XDS Printing Service enables compatible monitors to send reports to up to two local and three network printer queues which can be changed, enabled, or disabled as required. Different workflow rules for each printer queue can be set up. For example, when a report is sent to the virtual printer “PRN1”, a hard copy could be printed on a connected printer, and a PDF copy of the report saved into a shared folder on the PC.

You can also define the rules that generate the name of the PDF report, and the directory structure under which it is saved. This provides an extremely flexible and powerful way of exporting an electronic document to an electronic archiving system, such as an EMR.

Saving PDF copies of a printout is only possible on patient monitors with software revision F.0 or later.

Queue 1 and Queue 2 in the Local Printing Enabled field correspond to Local Printer 1 and 2 displayed in the **Main Setup > Reports > Setup Printers** menu of the corresponding Home Monitor. Queue 1, 2 and 3 in the Network Printing field correspond to Remote Printer 1, 2, and 3 displayed in the **Main Setup > Reports > Setup Printers** menu of all patient monitors on the network.

If reports have been configured to be stored locally, you can access them by right-clicking the XDS Software icon in the notification area (see “XDS Infrastructure Service” on page 9) and selecting **Open reports folder in Explorer...**

NOTE

If an Information Center is connected to the network, the network printers at the monitors are provided by the Information Center and not by the XDS Printing Service.

For further information on the XDS Printing Service, see the *IntelliVue XDS Software Installation and Configuration Guide*.

XDS Printing Service with Earlier Monitors

Monitors with software revisions earlier than F.0 can only print hard copy reports. These use the XDS Printing Service, and work with printers that support the PCL5 printing language.

Input Device Sharing

You can control the patient monitors MP60-MP90, MX400-MX850, and 6100/6300/6500 with a keyboard and mouse connected to the PC, if the monitor is configured as Home Monitor.

XDS Database

The XDS Database function collects and stores vital signs information (numeric data only, for example HR or NBP - no waveforms) from one specific monitor (with X40 option) into an SQL database. The data stored at configurable intervals (from 2 seconds to 1 hour) is then available to other applications for further processing. The SQL database can be accessed using standard queries.

The XDS Database is only available for patient monitors with the appropriate option and software revision L.0 or later.

XDS Infrastructure Service

These are a set of services that run in the background (invisible to the users). These services may, if necessary and possible,

- assign BOOTP IP addresses to monitors
- maintain a directory of monitors
- provide printing services (see “XDS Printing Service” on page 8)
- provide input device sharing (keyboard and mouse) between a PC and IntelliVue MP60-MP90, or MX400-MX850 patient monitors
- maintain the functionality of the IntelliVue XDS Software
- provide a degree of automated failover

When the IntelliVue XDS Software and Microsoft Windows have been so configured, an icon in the notification area of the Windows taskbar shows the current status of the Infrastructure Service.



- If the icon is green, the XDS Infrastructure Service is running normally.
- If the icon is red, the XDS Infrastructure Service is not running, or has been stopped. Contact your system administrator.

Compatibility

The IntelliVue XDS Software can be used with:

- IntelliVue X2, MP2, MP5, MP5SC, MP60 - MP90 patient monitors (release G.0 or later)
- IntelliVue MX700/MX800 patient monitors (release H.0 or later)
- IntelliVue MX400, MX450, MX500 or MX550 patient monitors (release K.2 or later)
- IntelliVue MX750/MX850 patient monitors (release N.01 or later)
- IntelliVue XG50 patient monitors (release L.0 or later)
- IntelliVue X3 and MX100 (release M.0 or later)
- IntelliVue MX430 patient monitors in conjunction with an XDS Activated License and the relevant license options
- Philips 6100/6300/6500 patient monitors (release R.0 or later)
- Avalon FM20/FM30, FM40/FM50 fetal monitors (release L.3 or later), with limited functionality

Operating System Requirements

The IntelliVue XDS Software has been tested for use on PCs with the following operating systems:

- Microsoft Windows 11
- Microsoft Windows 10 32/64 bit
- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- Microsoft Windows Server 2022

.Net Framework 4.8 will be installed together with the XDS Software installation package.

XDS Third-Party Software

This release of the IntelliVue XDS Software includes third-party software licensed under the terms defined in the following directory **c:\Program Files (x86)\Philips\IntelliVue XDS Software\Licenses** (for installations that use the standard installation directory).

Please contact your system administrator if another installation directory has been used.

Security Information

Protecting Personal Information

Protecting personal health information is a primary component of a security strategy. Each facility using IntelliVue XDS Software in conjunction with patient monitors must provide the protective means necessary to safeguard personal information consistent with country laws and regulations, and consistent with the facility's policies for managing this information.

Protection can only be realized if you implement a comprehensive, multi-layered strategy (including policies, processes, and technologies) to protect information and systems from external and internal threats.

As per its intended use, the patient monitor operates in the patient vicinity and contains personal and sensitive patient data. The patient data can also be shown on a Remote Display. This display may be in an area accessible to the public. XDS Software may be configured to hide the patient's name on the Remote Display if required. XDS Software can also encrypt communication with the patient monitor, and patient data can be anonymized.

To ensure the patient's safety and protect their personal health information you need a security concept that includes:

- **Physical security access measures** - access to the monitor and the PC running XDS Software must be limited to authorized users. It is essential that you consider physical security measures to ensure that unauthorized users cannot gain access.
- **Procedural security measures** - for example, assigning only staff with a specific role the right to use the XDS Remote Display application. In addition, any security concept must consider the requirements of local country laws and regulations.

Always consider data security aspects of the network topology and configuration when connecting PCs running XDS Software to shared networks. Your medical facility is responsible for the security of the network, where sensitive patient data from the monitor may be transferred.

When a device is returned for repair, disposal, or to be removed from your medical facility for other reasons, always ensure that all patient data is removed from the device.

About HIPAA Rules

If applicable, your facility's security strategy should include the standards set forth in the Health Insurance Portability and Accountability Act of 1996 (HIPAA), introduced by the United States Department of Health and Human Services. You should consider both the security and the privacy rules and the HITECH Act when designing policies and procedures. For more information, please visit: <http://www.hhs.gov/ocr/privacy/>

About the EU Directives

If applicable, your facility's security strategy should include the practices set forth in the Directive on the protection of individuals with regard to the processing of personal data and on the free movement of such data (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016). In addition, your facility should also take into account any additional, more stringent standards put forward by any individual EU countries.

Philips Product Security Policy Statement

Additional security and privacy information can be found on the Philips product security website at: <http://www.usa.philips.com/healthcare/about/customer-support/product-security>

Cyber Security Requirements and Controls

For security reasons, the removable storage may be disabled (by default, the XDS configuration setting **Enable access to removable storage** is enabled). For more information, see the section "Enabling/Disabling Removable Storage Access" in the *IntelliVue XDS Software Installation and Configuration Guide*.

Cyber security threats result mainly from network connectivity and may impact safe and secure operation of your network or any devices attached to this network.

As part of your security concept, you are responsible for establishing controls to protect your network and any networked devices against cyber security threats. This includes patient monitors, PCs, and servers running the XDS Software.

Network Cyber Security Measures

Using XDS Software, only connect the patient monitor to networks that are explicitly intended for that purpose. The monitor is intended to be used for monitoring of, and to generate alarms for, multiple physiological signals of patients. If you connect the monitor to a network, it is therefore highly recommended that you deploy measures for protecting the network against cyber security threats. This includes the deployment of firewalls to limit remote access and antivirus protection of standard computer systems.

Network Security Requirements for Connectivity to Philips Systems

You must follow the network configuration instructions of the specific Philips system product.

For the Philips Information Center, the IntelliVue Network Specification provides detailed network configuration requirements associated with the safe and secure operation of Philips devices within your hospital network for the purpose of patient monitoring. The IntelliVue Network Specification ensures the configuration and operation of a logical isolated network (LAN or VLAN) for Philips devices by the configuration of network infrastructure devices (switches, routers, and so forth). The document also defines the interconnection of the isolated network with other hospital networks using firewalls as well as the use of antivirus software for computer platforms based on standard operating systems.

Compliance to the IntelliVue Network Specifications is verified by Philips in cooperation with the customer prior to go-live.

Network Security Requirements for Connectivity to other Systems

To ensure safe and secure operation of networked data collection applications involving patient monitors, you must implement network traffic isolation by using dedicated physical or logical networks (isolated VLANs). Network traffic separation can be achieved by configuration of network infrastructure devices (switches, routers and firewalls) as outlined in the *IntelliVue Network Specification*. Only devices required by the specific system application should share this dedicated network. To prevent malware from affecting network performance or device operation, always ensure that all networked devices with standard operating systems have virus protection installed and are kept up to date.

For managing risks in clinical network deployments, Philips recommends that you apply a formal process such as the IEC 80001 series of standards to address safety, effectiveness, and data and system security.

Using the IntelliVue XDS Remote Display

Introduction

WARNING

The IntelliVue XDS Remote Display is not a primary alarming device and cannot be relied upon for alarm notification.

There are no audible or visible indications apart from what is shown on the screen, and the measurement data from the monitor may be delayed.

WARNING

The IntelliVue XDS Software alone is not intended for remotely monitoring patients without caregivers in vicinity (unattended patients).

WARNING

The XDS Remote Display window may at times be covered by other application windows.

If you need constant access to the patient data, make sure the XDS Remote Display window is always in the foreground, as described in [“Running the XDS Remote Display Window in the Foreground”](#) on page 26.

CAUTION

When using the XDS Remote Display during transport, always verify that the use of the touchscreen or input device, for example a mouse, results in the intended action.

CAUTION

Ensure that the current alarm settings are appropriate for your patient.

CAUTION

When operating an XDS Remote Display via a Remote Desktop you must always check that the data is not outdated. Always check the continuous wave drawing of the XDS Remote Display and that the Remote Desktop itself is updated correctly.

The XDS Remote Display is a PC application which allows screens generated by a monitor to be shown on the display of a PC connected to the same clinical network. The XDS Remote Display allows clinicians and nurses to view and operate the monitor similar to an independent display. For additional information, see the Instructions for Use of the connected monitor.

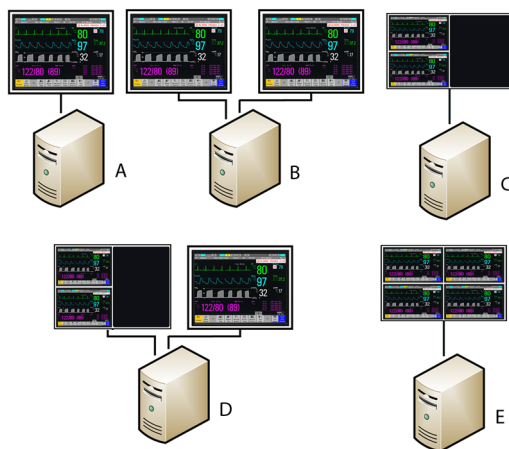
3 Using the IntelliVue XDS Remote Display

You can operate most screen-operable functions of the currently connected monitor via the XDS Remote Display, for example, start/stop physiological measurements, change measurement modes, change alarm limits, and acknowledge alarms.

The XDS Remote Display can be used to provide an alternative access to the information from monitors, for example, to display patient data from connected monitors where no Information Center is available.

The XDS Remote Display can also be used

- to provide a large display for a monitor that has a small built-in display
- to show screens from up to four monitors together, for example:
 - A: one monitor screen - one PC display
 - B: two monitor screens - two PC displays
 - C: two monitor screens - one PC display
 - D: three monitor screens - two PC displays
 - E: four monitor screens - one PC display



WARNING

When viewing a Remote Display, an amber frame around the window indicates that the monitor displayed is not the configured Home Monitor/Default Monitor.

CAUTION

For privacy purposes, a Remote Display can be configured not to show the patient's name. If you require this service, contact your system administrator.

NOTE

When using Microsoft RDP clients, and the network capability has reached its set limits or the connection has been lost, the Windows Remote Desktop client will be frozen and/or grayed out. A dialog window opens displaying the reconnect attempts. This is a standard Windows procedure, dependent upon your Windows configuration.

NOTE

When using the XDS Remote Display on a Terminal Server, a maximum of 60 XDS Remote Display windows can be used at any one time. To avoid blocking other potential user sessions, close the XDS Remote Display when you have finished your session.

Configuration Possibilities

Your system administrator makes a number of choices for the XDS Remote Display with regard to its use, appearance, and location.

If you have questions regarding the installation and limitations of the XDS Remote Display, contact your system administrator.

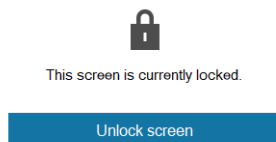
Operating the Monitor Remotely

The monitor can be operated remotely if the correct options are installed and configured appropriately.

Depending on your configuration, you may have to confirm using the monitor remotely. A lock symbol will appear in the middle of the screen in any of the following situations:

- When you first want to operate the monitor remotely.
- After you have used another application on your PC (running in the foreground).
- If someone locked the monitor on purpose.

To unlock the Remote Display, click **Unlock screen**.



To ensure the XDS Remote Display always runs in the foreground, see [“Running the XDS Remote Display Window in the Foreground”](#) on page 26.

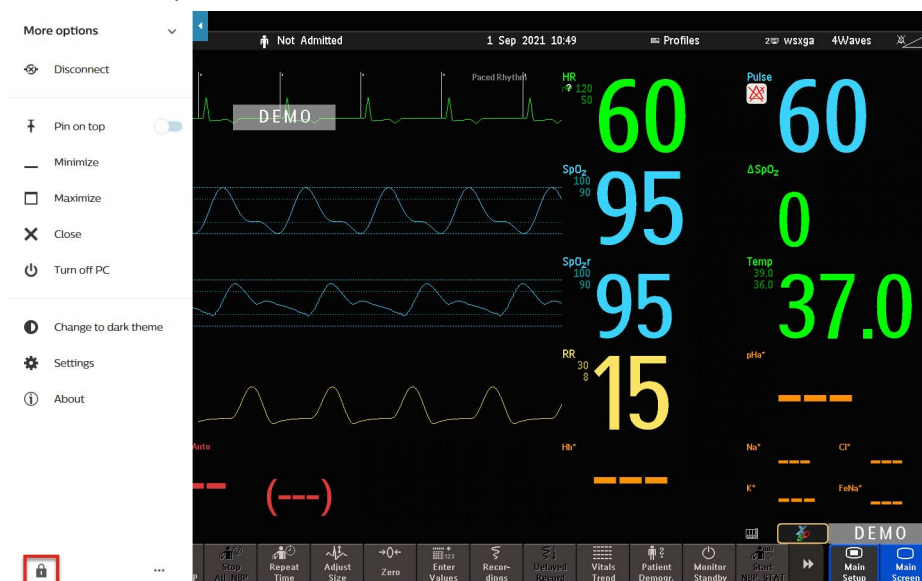
Locking the XDS Remote Display

You can lock the XDS Remote Display on purpose, for example when cleaning a tablet that is running XDS Software.

- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.
- 3 Select the lock symbol at the bottom of the XDS main menu.



Once locked, you can unlock the Remote Display by clicking **Unlock screen**.



This screen is currently locked.

Unlock screen

NOTE

If an external display is connected to the iPC and the Windows display settings are set to **Duplicate**, the XDS Remote Display window will not be visible unless an iPC screen is selected on the monitor. Instead, a lock will be shown in the XDS window.

Viewing a Monitor Screen

Unknown or unsupported screen elements are blanked. The following screen elements are not supported:

- embedded overview (other bed and own bed)
- care group status
- embedded Remote Applications
- Notifications window
- Care Groups window and related Alarm Status overview bar
- Visual Patient Avatar

Starting the XDS Remote Display

Make sure the PC is switched on.

Depending on how the XDS Remote Display was installed/configured on your PC, it may start automatically with Windows.

If not, start it by

- double-clicking on the XDS icon on the Windows desktop, or
- selecting it in the Windows start menu.

Depending on your configuration, the XDS Remote Display starts with

- the most recently used monitor and screen,
- a predefined monitor and screen (default monitor and/or Home Monitor), or
- a blank screen, from which you have to select the monitor and screen.

CAUTION

When the application starts, various components are checked for correct functioning. If errors are found, the application, or in serious cases the PC, may be restarted. When the application is running these checks are repeated periodically. Errors found may lead to an application or PC restart.

Restarting the XDS Remote Display

If the application does not start or does not run properly, try to restart it:

- Double-click the XDS icon on the Windows desktop
- Select it in the Windows start menu

If the application still does not start or does not run properly:

- 1 Power down the PC.
- 2 Restart the PC and the application, as described in [“Starting the XDS Remote Display” on page 16](#).

If the application still does not start, or does not run properly, contact your system administrator.

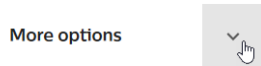
Selecting a Different Screen

Depending on your configuration, you can select a new or different screen from the connected monitor.

- 1 Click the XDS icon.



- 2 Minimize the **More options** menu. If the XDS LaunchPad is enabled, this step is not required.

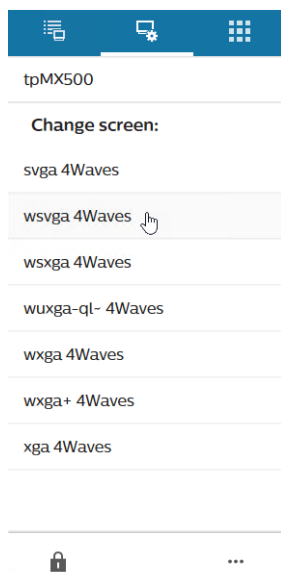


- 3 Go to the screens tab.



The screens listed depend on the connected monitor, the resolution of the PC display, and the size of the XDS Remote Display window. Monitor screens that are larger than the PC display cannot be displayed, and are not listed.

- 4 Select the screen you want to view.



The new screen is shown on the display.

- If you are viewing the screen in a window, and the new screen is a different size than the previous screen, the window on the PC is resized to fit the new screen.
- If you are viewing the screen at the full size of the PC display, and the new screen is smaller than the PC display, it is shown with a black border to fill the screen.

Depending on your configuration, tablet PCs running XDS Software may change their screens automatically when the tablet's screen orientation changes (for example when you rotate the screen from a horizontal to a vertical position).

With patient monitors with software revision H.0 or later, the XDS Remote Display can function as a fully integrated, second display. For more details on using second displays, see your monitor's Instructions for Use.

WARNING

Always check the equipment or bed label at the top of the screen, and the patient's name (if it is displayed), to make sure you are viewing data from the correct patient.

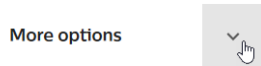
Selecting a Different Monitor

Depending on your configuration, you can change the monitor that you want to view.

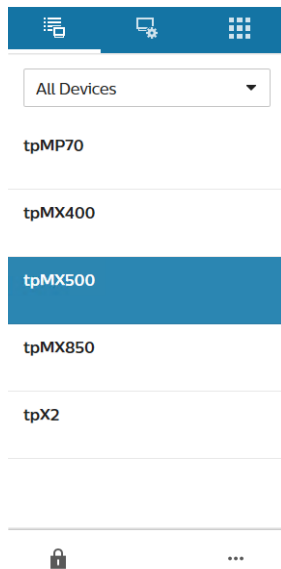
- 1 Click the XDS icon.



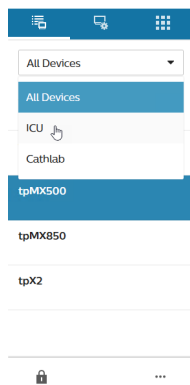
- 2 Minimize the **More options** menu. If the XDS LaunchPad is enabled, this step is not required.



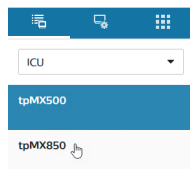
- 3 A list of available monitors, relevant to the current monitor group, is displayed.



- 4 *Optional.* Select the required monitor group, for example, **ICU**.



- 5 Select the monitor you require.



Note: Only those monitors configured for the selected monitor group will be displayed.

- 6 There may be a short delay (approximately 1 minute) before the XDS Remote Display opens the monitor window, if one of the following applies:
 - You select a new monitor model for the first time.
 - You select a monitor with a different language.
 - You have updated to a new version of the software.

The most recently viewed screen, or the first screen for the monitor, is shown on the display.

If necessary, select a different screen, as described in “Selecting a Different Screen” on page 17.

CAUTION

You cannot connect to a monitor if all available connections to that monitor are already in use. If you try to open a Remote Display connection to a monitor where this is the case, you will see a message informing you that the selected patient monitor display cannot be started because another PC is already connected to that patient monitor.

Multiple Connections

It is possible to have more than one PC with the IntelliVue XDS Software running in a network with several monitors. Each monitor can be remotely connected to IntelliVue XDS Software with up to two remote display connections, depending on your monitor model and software revision:

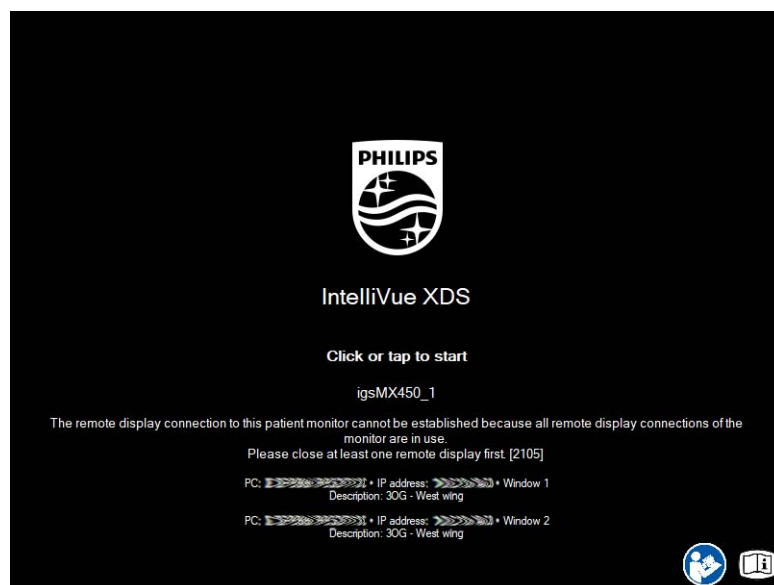
- IntelliVue X2, MP2, MP5, MP5SC, MP60-90: one XDS Remote Display connection
- IntelliVue MX100/X3, MX400/MX450, MX430, MX500/MX550, MX600, MX700, MX750, and MX800 patient monitors: one XDS Remote Display connection (release N.0 and earlier), up to two Remote Display connections (release P.0 and later)
- IntelliVue MX850 patient monitor: up to two XDS Remote Display connections (release N.01 and later)
- Philips 6100, 6300, and 6500 patient monitors: up to two XDS Remote Display connections (release R.0 and later)
- Avalon Fetal Monitors FM20/FM30, FM40/FM50: one XDS Remote Display connection via IntelliSpace Perinatal

Patient monitors, N.0x and later revisions

The below message appears on the XDS Remote Display if any of the following monitors are already remotely connected to an IntelliVue XDS Software client and a second or third client tries to connect to that monitor:

- MX100/X3, MX400-MX550, MX600/MX700/MX800 with N.00 and later revisions
- MX750/MX850 with N.01 and later revisions
- 6100, 6300, and 6500 with R.0 and later revisions

The remote display connection to this patient monitor cannot be established because all remote display connections of the monitor are in use. Please close at least one remote display first.



3 Using the IntelliVue XDS Remote Display

The text above this message shows the information from the monitor you are trying to connect to. The text below the message shows the information from the PC that is currently connected to the monitor you wish to connect to. This information will help you to find out who is using the connection.

IntelliVue patient monitors, M.0x and earlier revisions

The below message appears on the XDS Remote Display if any of the following monitors are already connected to an IntelliVue XDS Software client and a second client tries to connect to that monitor:

- MX100/X3, MX400-MX550, MX600/MX700/MX800 with M.0x and earlier revisions
- X2, MP2, MP5/MP5T/MP5SC, MP60-90

Connection refused - Too many concurrent connections. Number of XDS sessions exceed monitor capabilities.

The text above this message shows the information from the monitor you are trying to connect to.

Remote Operation

Only one operation is possible at any one time on the monitor. If you try to operate a monitor locally while another user is accessing the same monitor from an XDS Remote Display, there will be a conflict. The monitor will always react to the most recent operation input, for example:

If user A selects **Main Setup** on the patient monitor, they will see the **Main Setup** menu. If user B now selects the HR numeric on the XDS Remote Display, the **Setup ECG** menu will appear on the XDS window and the **Main Setup** menu will disappear on the patient monitor.

CAUTION

If Remote Operation is configured for use, there is a possibility of conflicts between local and remote users of the same monitor.

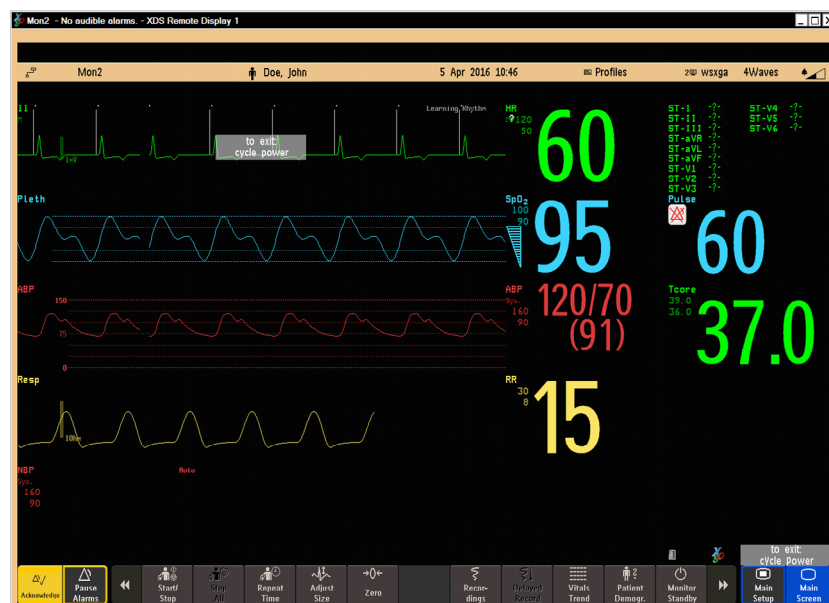
Amber Frame

If your XDS Remote Display has been configured for a default monitor, and you are not viewing that particular monitor, the viewed monitor is surrounded by an amber frame.

The amber frame is only displayed on patient monitors with software revision H.0 or later.

WARNING

Always check the equipment or bed label at the top of the screen, and the patient's name (if it is displayed), to make sure that you are viewing data from the correct patient.



Disconnecting a Monitor When it is Moved

You should always use the disconnect function when **a monitor is moved away from the current PC into another room and no default monitor is configured**. If the monitor is not disconnected, the current XDS Remote Display will reconnect to that monitor automatically as soon as it is connected to the network in the new room. This would result in the XDS Remote Display showing the screen from a monitor in another room. It would also mean that the monitor cannot be connected to the XDS in the new room.

Disconnecting a Monitor from XDS Remote Display

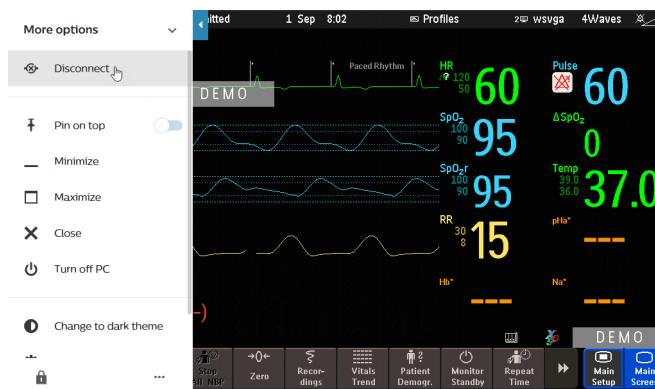
To disconnect a monitor from XDS Remote Display:

- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.

- 3 Click **Disconnect**.



Once a monitor has been manually disconnected using the **Disconnect** button, the XDS Remote Display either returns to the default monitor (see [“Returning to the Default Monitor”](#) on page 21) or waits until a new monitor is selected from the monitor list, depending on the configuration.

Returning to the Default Monitor

Depending on your configuration, this feature may not be available.

To return to the default monitor, disconnect the current monitor as described in [“Disconnecting a Monitor When it is Moved”](#) on page 21.

Creating and Managing Screens

Depending on your configuration, the following options may not be available.

You can add, delete, rename, and store screens in the XDS main menu if the monitor is **in Config or Service Mode**. If you want to use this functionality but do not know how to access Config or Service Mode, contact your service personnel.

Adding Screens

You can add screens via the XDS main menu, if you are in Config or Service Mode. These screens will be added based on the current configuration.

- 1 Configure the screen as required.
- 2 Select the XDS icon.

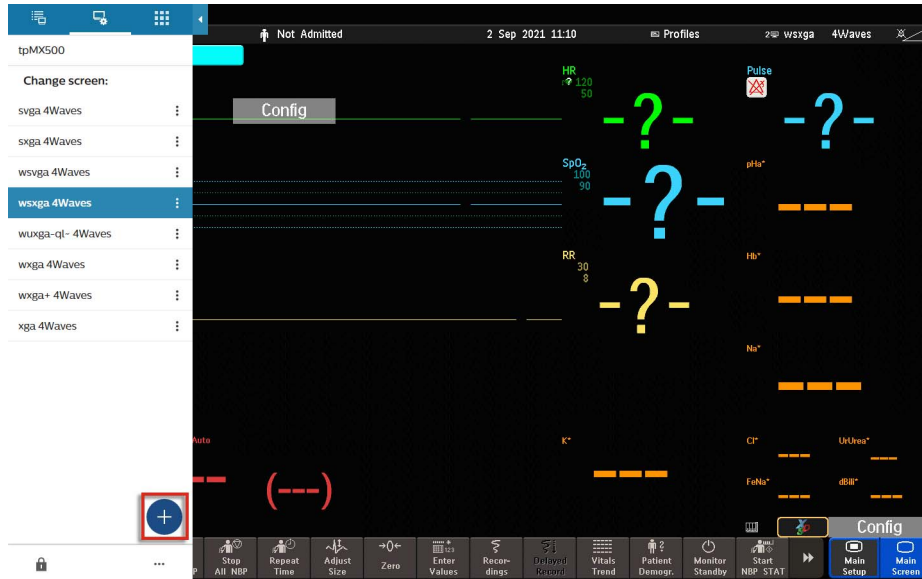


- 3 Minimize the **More options** menu. If the XDS LaunchPad is enabled, this step is not required.

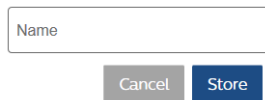
More options



- Go to the screens tab and click the plus at the bottom.



- Enter a name for the new screen and click **Store**.



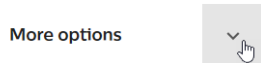
Deleting Screens

You can delete screens via the XDS main menu, if you are in Config or Service Mode.

- Select the XDS icon.



- Minimize the **More options** menu. If the XDS LaunchPad is enabled, this step is not required.

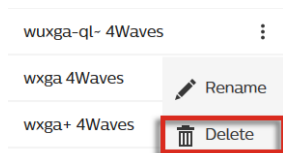


- Go to the screens tab.

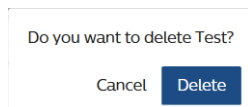


- Next to the screen you want to delete, click the three dots.

- Select **Delete**.



- When prompted if you want to delete the selected screen, confirm your decision by clicking **Delete**.



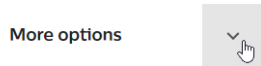
Renaming Screens

You can rename screens via the XDS main menu, if you are in Config or Service Mode.

- 1 Select the XDS icon.



- 2 Minimize the **More options** menu. If the XDS LaunchPad is enabled, this step is not required.

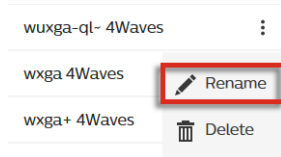


- 3 Go to the screens tab.

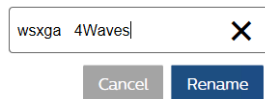


- 4 Next to the screen you want to rename, click the three dots.

- 5 Select **Rename**.



- 6 Change the name as required, and click **Rename**.



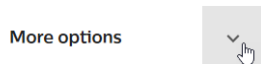
Storing Screens

You can store selected screens via the XDS main menu, if you are in Config or Service Mode. You can only store a screen if it is currently selected via the XDS main menu.

- 1 Select the XDS icon.



- 2 Minimize the **More options** menu. If the XDS LaunchPad is enabled, this step is not required.



- 3 Go to the screens tab.

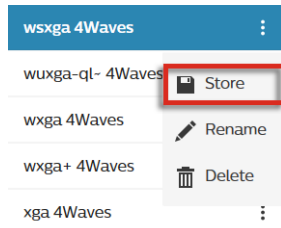


- 4 Select the screen you want to edit and/or store.

- 5 If required, configure the screen.

- 6 Next to the screen name you selected, click the three dots.

- 7 Click **Store**.



Changing the Size and Priority of the Screen

Maximizing the XDS Remote Display

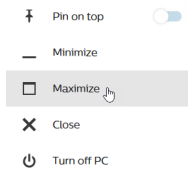
Depending on your configuration, this feature may not be available.

- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.

- 3 Select **Maximize**.



The position and size of the screen depends on the configuration of the window. For example, if the window is configured as "Full Screen" it will fill the display, and if it is configured as "2 x 2 Top Right" it will move to that position and be resized. A window that is displayed smaller than its original size has the message **Screen is scaled** in the title bar.

Minimizing the XDS Remote Display

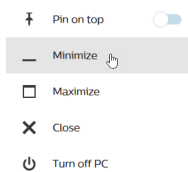
Depending on your configuration, this feature may not be available.

- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.

- 3 Select **Minimize**.



The XDS Remote Display is minimized to the Windows task bar.

Restoring the Screen to a Window

Depending on your configuration, this feature may not be available.

- If the window was minimized, select the icon for the XDS Remote Display in the Windows task bar to restore it.



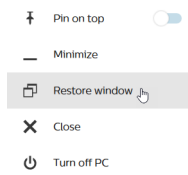
- If the window was maximized, do the following to restore the window:

- a. Select the XDS icon.



- b. If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.

c. Select **Restore window**.



Resizing the Window

WARNING

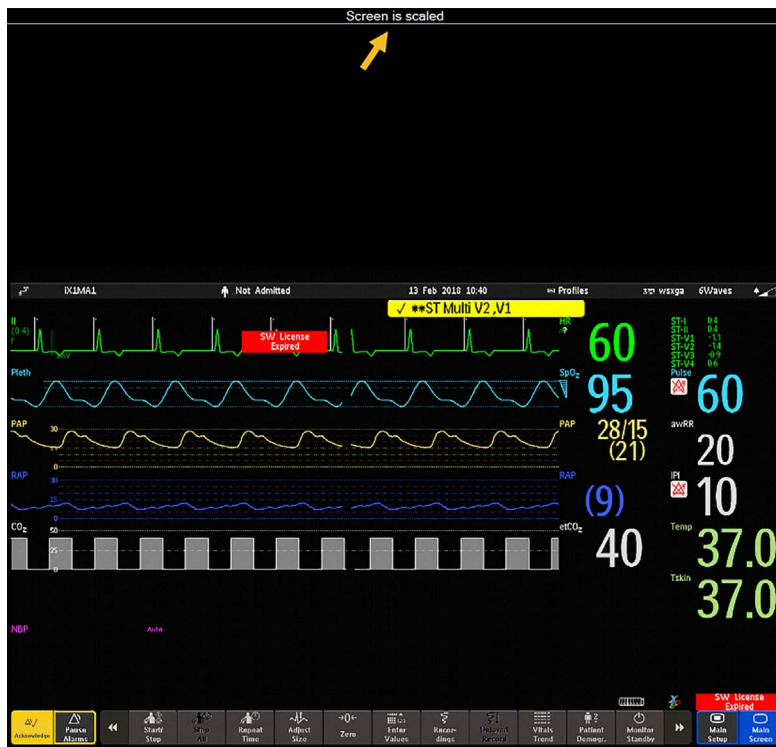
If you resize a window so that it is smaller than its original size, details may appear incorrectly or may be missing.

Depending on your configuration, this feature may not be available.

To reduce the size of a window, select and hold a corner of the window, and drag it to the size you want. A window that is displayed smaller than its original size has the message **Screen is scaled** in the title bar.

Depending on the performance of the PC, waves shown in a window that is not its original size may show some jitter.

The XDS Remote Display window has a minimum size limit, and cannot be resized to be larger than the screen from the monitor.

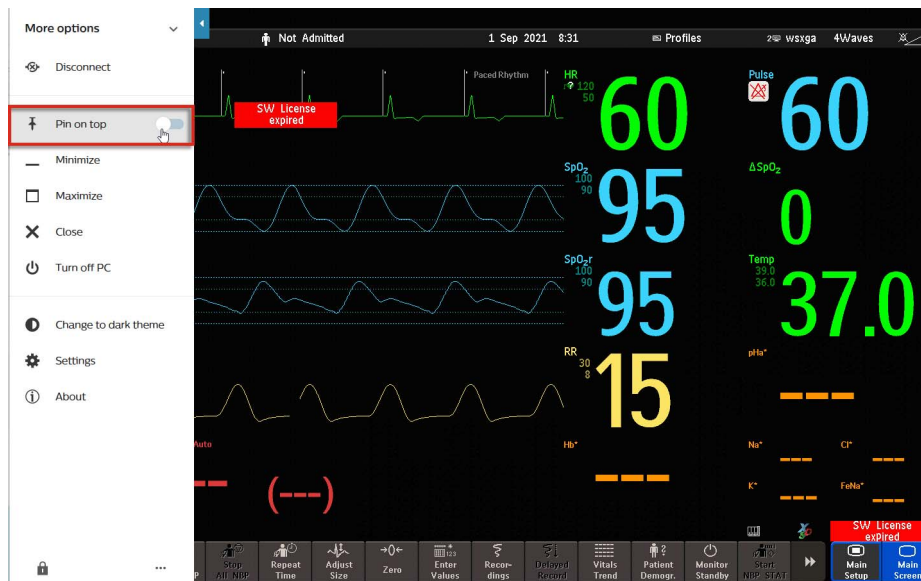


Running the XDS Remote Display Window in the Foreground

- 1 Select the XDS icon.



- 2 Enable **Pin on top**.



The XDS Remote Display window is now always visible, even when you are working with other applications.

CAUTION

You will no longer be able to access other applications running on the PC if the XDS Remote Display covers the full screen and you select it to always run in the foreground (see [“Maximizing the XDS Remote Display” on page 24](#)).

Using Other Applications

WARNING

If you want to run other applications at the same time as the IntelliVue XDS Software on the same PC, contact your system administrator to run the appropriate acceptance test (described in the *IntelliVue XDS Software Installation and Configuration Guide*). The acceptance test is used to check whether an application can potentially disturb the correct operation of the XDS Remote Display.

Philips cannot accept any responsibility for the effects caused by third-party applications that have not passed these tests.

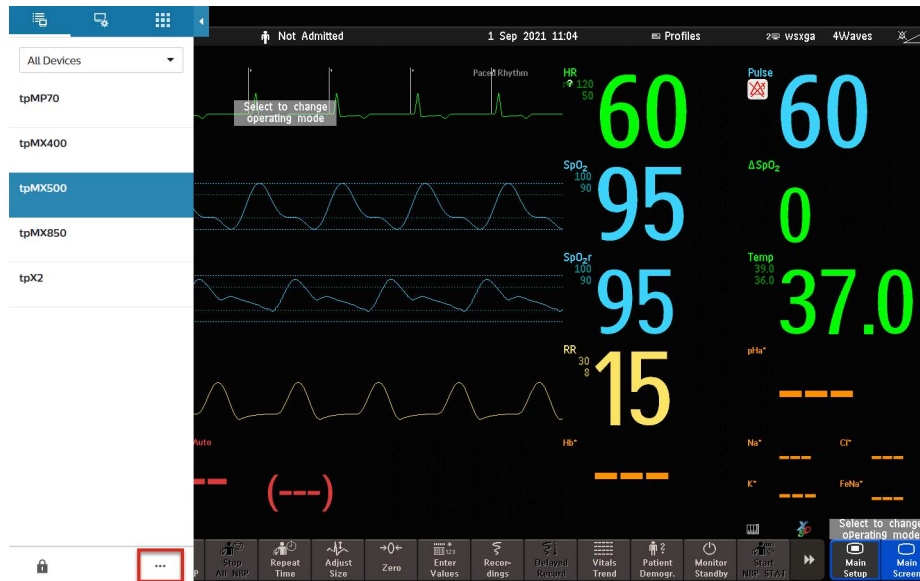
To open other applications automatically with the current patient context, for example, to view lab results for the patient over the hospital intranet, see [“Starting the XDS LaunchPad” on page 33](#).

Opening and Closing the More Options Menu

You can open and close the **More options** menu. If the XDS LaunchPad is disabled, this menu is displayed by default when clicking the XDS icon.

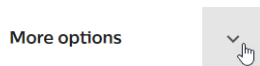
Opening the More Options Menu

To open the **More options** menu, select the three dots on the bottom right of the main menu.



Closing the More Options Menu

To close the **More options** menu, click the arrow next to the **More options** heading.



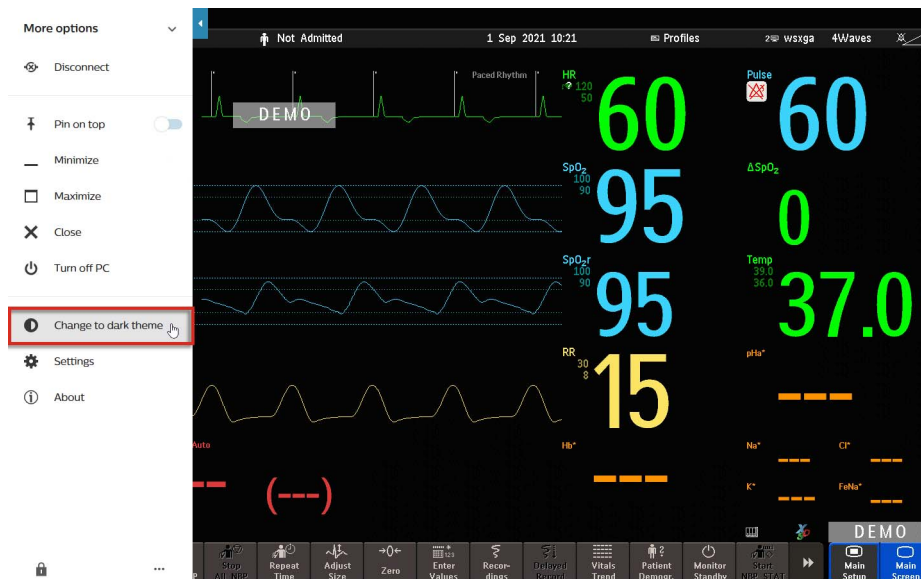
Changing to Dark/Light Theme

To change the appearance of the XDS Remote Display main menu, a light and a dark theme are available. You can switch from the light to the dark theme and vice versa as follows:

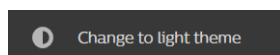
- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.
- 3 Click **Change to dark theme**.



You can change from the dark to the light theme in the same way: Select the XDS icon and click **Change to light theme**.



Opening the System Configuration

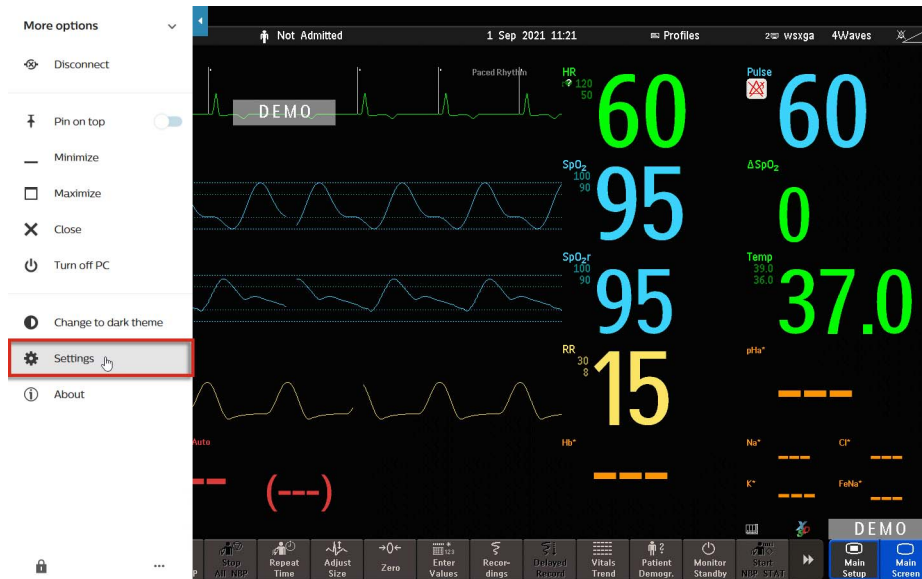
Depending on your Windows user access rights, this feature may not be available. Only administrator users can access the system configuration.

You can open the System Configuration as follows:

- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.
- 3 Select **Settings**.



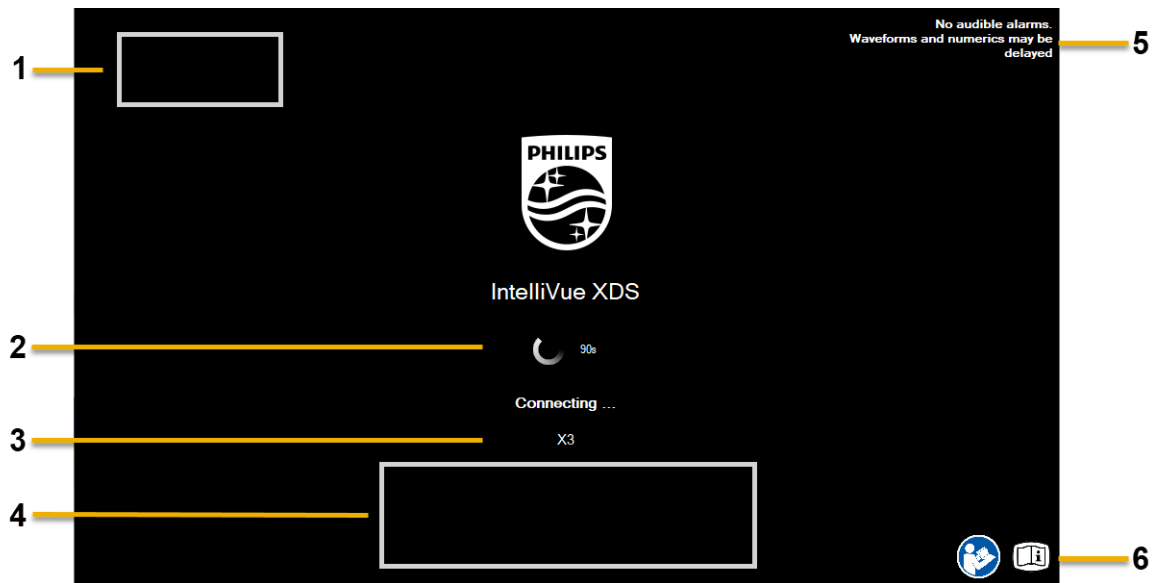
You may be prompted to enter an administrator password. For more information on the system configuration, see the *XDS Installation and Configuration Guide*.

Troubleshooting the XDS Remote Display

If the XDS Remote Display is connected to a monitor, the content of the XDS Remote Display window is controlled by the connected monitor.

The XDS Remote Display shows status information, rather than the data from the monitor, when

- it is waiting for a monitor to connect to the network.
- it is setting up the communication with the connected monitor.
- wave or non-wave data is missing or interrupted.
- communication with the connected monitor fails.
- another XDS Remote Display is already viewing the monitor.
- there are problems with the integrity of the connection to the monitor.



- 1 Place for custom bitmap (such as a hospital logo)
- 2 Progress indicator. If unchanged for more than 30 seconds, restart the application.
- 3 Description of connected monitor
- 4 Error codes and descriptions
- 5 Text indicating that no audible alarms are available
- 6 Symbols indicating "Follow the Instructions for Use" and "Relevant information is available in electronic form", if configured

In the case of a failure, the XDS Remote Display tries to reconnect automatically a number of times.

Depending on your configuration, the XDS Remote Display tries to reconnect with the most recently used monitor when the network connection is restored.

If you intentionally disconnected the connected monitor and do not want the PC to reconnect with it, select another monitor, or restore the connection to the default monitor, as described in [“Returning to the Default Monitor”](#) on page 21.

PC Running Low on Resources

Depending on your configuration, this feature may not be available.

The XDS Remote Display checks that the PC on which it is running has enough free resources to ensure continuous and uninterrupted collection and display of data from the monitor.

If the computing or communication performance is compromised in a way that may delay the display of patient data, the XDS Remote Display shows the message **The system is running low on resources**. To avoid problems, stop as many active applications as possible that may be competing for computing or communication resources.

WARNING

If you use the XDS Remote Display although there are insufficient computing or communication resources, the data shown by the XDS Remote Display may not be current.

If you cannot stop other applications, and want to continue using the XDS Remote Display, you can close the warning message by selecting **Ignore**.

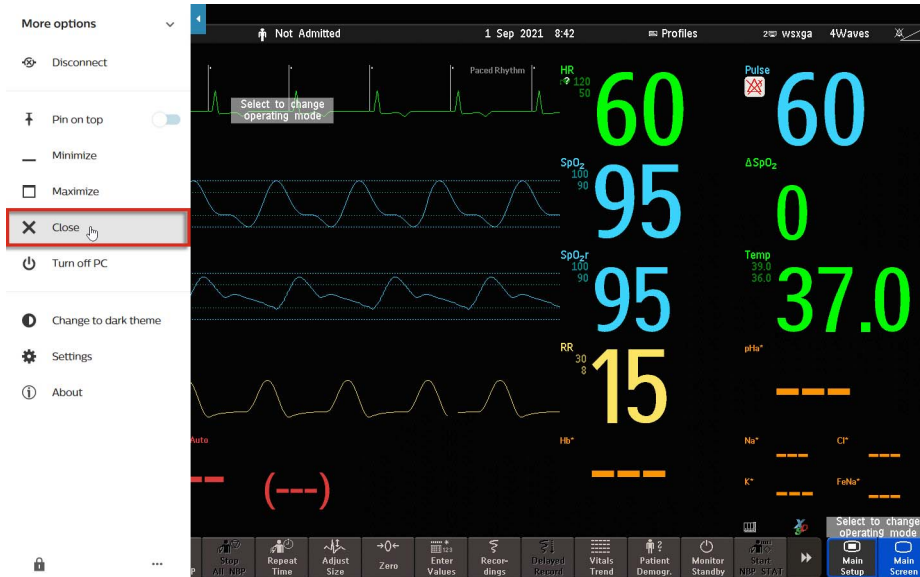
Exiting the XDS Remote Display

Depending on your configuration, this feature may not be available.

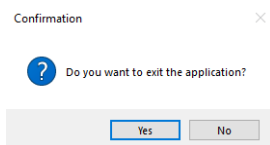
- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.
- 3 Click **Close**.



- 4 The confirmation window opens: **Do you want to exit the application?** Click **Yes** to exit the application.



The XDS Remote Display stops and closes.

Shutting Down the PC

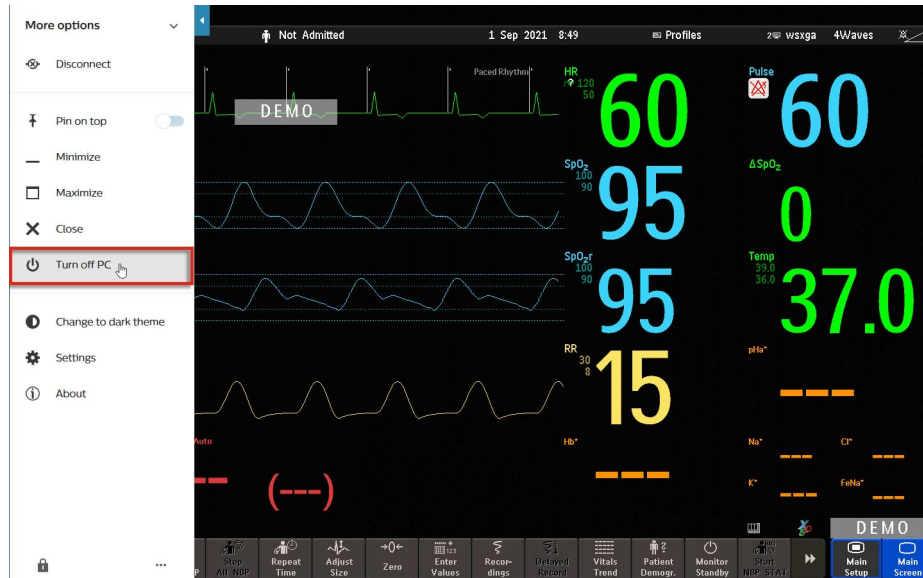
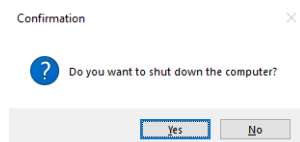
Depending on your configuration, this function may not be available.

Before you switch the PC off, make sure this will not affect other services running on the PC, such as synchronizing the time on bedside monitors, providing printing for bedside monitors, or the operation of third-party applications.

- 1 Select the XDS icon.



- 2 If the XDS LaunchPad is enabled, open the **More options** menu by selecting the three dots on the bottom right of the main menu.

3 Select **Turn off PC**.4 The confirmation window opens: **Do you want to shut down the computer?**. Click **Yes** to shut down the computer.

The PC shuts down.

If you use the **Turn off PC** button to shut down the iPC in an IntelliVue MX600, MX700, MX750, MX800, or MX850 patient monitor, only the iPC is shut down. The patient monitor is not affected.

To switch off both the patient monitor and the iPC, use the power button on the patient monitor, as described in the Instructions for Use for the patient monitor.

Using the IntelliVue XDS LaunchPad

Introduction

WARNING

If you want to run other applications at the same time on the same PC, contact your system administrator to run the appropriate acceptance test (described in the *IntelliVue XDS Software Installation and Configuration Guide*). The acceptance test is used to check whether an application can potentially disturb the correct operation of the XDS Remote Display or the XDS LaunchPad.

Philips cannot accept any responsibility for the effects caused by third-party applications that have not passed these tests.

The IntelliVue XDS LaunchPad is a PC software application which allows you to start further applications from a patient monitor (with XDS option X30), or from within the XDS Remote Display.

This makes it possible to open some applications automatically with the current patient context - for example, to view lab results for the patient over the hospital intranet.

Configuration Possibilities

Your system administrator configures the applications available to you using the XDS LaunchPad.


Contact your system administrator about adding and configuring applications to run on the patient monitors or to start from within the XDS Remote Display.

User Interface Conventions

The XDS LaunchPad user interface uses the conventions of Windows applications.

Starting the XDS LaunchPad

On the iPC (IntelliVue MX700-MX850 Patient Monitors)

The XDS LaunchPad starts automatically with the iPC. Click the iPC button  at the bottom of the screen repeatedly to cycle through the available screens until the XDS LaunchPad is shown.

The available screens are:

- the most recently run PC application
- the XDS LaunchPad
- the patient monitor screen only.

You can also start the XDS LaunchPad from the XDS Remote Display, as described below for external PCs.

NOTE

If you need to restart the XDS LaunchPad, you can do this from the XDS Remote Display, as described for external PCs in the next section.

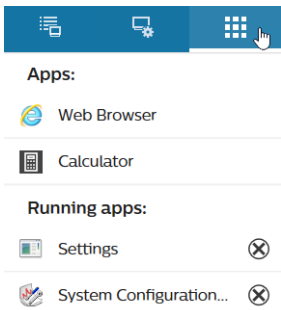
On External PCs

You can access the XDS LaunchPad from the XDS Remote Display. If the XDS Remote Display is not running, start it as described in “Starting the XDS Remote Display” on page 16.

- 1 Click the XDS icon.



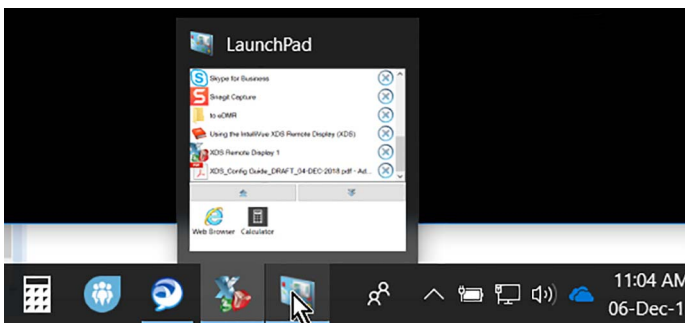
- 2 Select the **LaunchPad** tab (the third tab from the left).



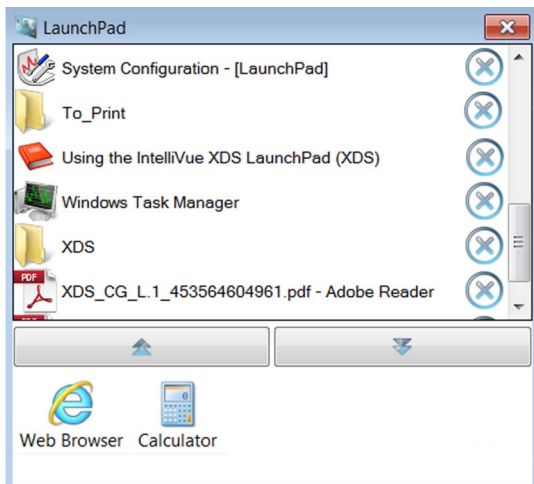
Standalone LaunchPad

If the LaunchPad window is enabled, applications can be started or viewed from the LaunchPad window without running the XDS Remote Display.

- 1 Click **LaunchPad** in the Windows Task Bar.



- 2 The LaunchPad window will open, showing:
 - running applications in the upper window
 - applications configured by XDS in the lower window



- 3 Select the required application.

Starting Applications from the Monitor

If you want to start applications from the monitor, to run on the PC,

- XDS LaunchPad must be running on the PC.
- your system administrator needs to configure the applications, and assign them SmartKeys on the monitor (as described in the *IntelliVue XDS Software Installation and Configuration Guide*).
- your patient monitor must have software revision H or later.

When appropriate, LaunchPad can pass the patient context (patient identifying information that applications can use to perform an automated search) and log-on information to applications at start-up.

NOTE

Always check the patient context information to make sure you are viewing data from the correct patient.

Using the IntelliVue XDS Software on the iPC

See the Instructions for Use of the patient monitor containing the iPC (for example, IntelliVue MX750 and MX850 patient monitors) for information on starting, restarting, switching off, or troubleshooting the iPC.

Using Input Devices

With IntelliVue patient monitors with an iPC, a mouse and keyboard connected to the iPC can be used to control the patient monitor. Similarly, the touchscreen of the patient monitor can be used to control windows running on the iPC.

Depending on the XDS configuration, the mouse and keyboard may be disabled when the iPC screen is not visible. Before typing in data with the keyboard, click in (or touch) the iPC window or the patient monitor screen to define where the typed in data should go.

If you have two displays, the mouse can be moved across both displays.

If you use a remote control with the patient monitor, the area that can be addressed by the navigation knob on the screen is limited to the patient monitor when the iPC window is visible.

CAUTION

If the Input Device Service is enabled and an "iPC Desktop" screen is available, the use of the configuration "Duplicate display" for multiple displays is not allowed. You may only use "Duplicate display" when the Input Device Service is disabled.

NOTE

If an external display is connected to the iPC and the Windows display settings are set to **Duplicate**, the XDS Remote Display window will not be visible unless an iPC screen is selected on the monitor. Instead, a lock will be shown in the XDS window.

The mouse and keyboard are connected to the iPC and control the patient monitor via XDS Software. Therefore, the iPC needs to be switched on and XDS Software must be running for the mouse and keyboard to be available for use with the monitor.

Previous Screen Key

Depending on your configuration, when you open the iPC Desktop, the desktop may occupy the main part of the screen. A strip at the side of the screen is reserved for the patient monitor to ensure wave and numeric visibility. In this situation, the **Main Screen** key is replaced by a **Previous Screen** key, that you can use to quickly return to the full screen display of the patient monitor.

When the iPC Window Size Changes

If the iPC window appears at a different size, the resolution of the display on which it is being viewed has been changed. Contact your service personnel to have the resolution reconfigured.

Specifications

Intended Use

The IntelliVue XDS Software is intended for use as an additional, independent display for viewing screens, generated by specified network-connected Philips patient monitors. The IntelliVue XDS Software alone is not intended for remotely monitoring patients without caregivers in vicinity (unattended patients).

It is indicated for local and remote operation of these Philips patient monitors.

It is indicated for printing reports as generated by these Philips patient monitors.

It is indicated to be used by trained healthcare professionals.

Rx Only: Caution, U.S. Federal Law restricts this device to sale by or on the order of a physician.

Intended Purpose

In accordance with the European Medical Device Regulation 2017/745: The IntelliVue XDS Software is part of the device group "Vital Signs Monitoring Instruments". The intended purpose of this device group is to be used for monitoring and recording of, and generating alarms for, multiple physiological parameters of adults, pediatrics, and neonates.

Contraindications

There are no known contraindications for the IntelliVue XDS Software.

Clinical Benefits

Through its intended purpose, the software covered by these Instructions for Use that is compliant with the European Medical Device Regulation 2017/745 has the following indirect clinical benefit: simplifying care and improving the clinical management of patients.

Safety and Regulatory Information



The IntelliVue XDS Software complies with the EU Regulation 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices. The IntelliVue XDS Software is classified into Class IIb according to Annex VIII, Rule 11.

The IntelliVue XDS Software also complies with the following standards:

- IEC 62366-1:2015+A1:2020
- IEC 82304-1:2016
- IEC 62304:2015, edition 1.1
- EN ISO 15223-1:2021
- EN ISO 20417:2021

Manufacturer's Information

The IntelliVue XDS Software is made by:



Philips Medizin Systeme Böblingen GmbH
Hewlett-Packard-Strasse 2
71034 Böblingen
GERMANY

Visit our website at: www.healthcare.philips.com

Australia Sponsor:

Philips Electronics Australia Ltd
65 Epping Road
North Ryde, NSW Australia 2113

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Incident Reporting





Any serious incident that has occurred in relation to this software should be reported to Philips and the competent authority of the member state in which the user and/or patient is established. In this context, "member state" refers to European Economic Area (EEA) countries including Switzerland and Turkey.







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Symbols

These symbols can appear on the XDS Software.

	Follow the Instructions for Use		Prescription use only
	Indicates that relevant information is available in electronic form www.philips.com/ifu		Indicates the manufacturer's batch code

	Indicates the manufacturer's catalog number		CE marking accompanied by the notified body number 0123. Indicates that the product complies with the EU Regulation 2017/745.
	Indicates the name and address of the legal manufacturer		Indicates a carrier that contains unique device identifier information. This symbol identifies the UDI (Unique Device Identifier) carrier, including the AIDC (Automatic Identification and Data Capture) and human readable information.
	Indicates the country and date of manufacture		Medical Device

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