

XPression

XPression Monitor User Guide

VERSION 12.5

ROSS

Thank You for Choosing Ross

You've made a great choice. We expect you will be very happy with your purchase of Ross Technology.

Our mission is to:

1. Provide a Superior Customer Experience
 - offer the best product quality and support
2. Make Cool Practical Technology
 - develop great products that customers love

Ross has become well known for the Ross Video Code of Ethics. It guides our interactions and empowers our employees. I hope you enjoy reading it below.

If anything at all with your Ross experience does not live up to your expectations be sure to reach out to us at solutions@rossvideo.com.



David Ross

CEO, Ross Video

dross@rossvideo.com

Ross Video Code of Ethics

Any company is the sum total of the people that make things happen. At Ross, our employees are a special group. Our employees truly care about doing a great job and delivering a high quality customer experience every day. This code of ethics hangs on the wall of all Ross Video locations to guide our behavior:

1. We will always act in our customers' best interest.
2. We will do our best to understand our customers' requirements.
3. We will not ship crap.
4. We will be great to work with.
5. We will do something extra for our customers, as an apology, when something big goes wrong and it's our fault.
6. We will keep our promises.
7. We will treat the competition with respect.
8. We will cooperate with and help other friendly companies.
9. We will go above and beyond in times of crisis. *If there's no one to authorize the required action in times of company or customer crisis - do what you know in your heart is right. (You may rent helicopters if necessary.)*

XPression Monitor User Guide

- Ross Part Number: 3500DR-020-12.5
- Version: 12.5

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Patents

Patent numbers US 7,034,886; US 7,508,455; US 7,602,446; US 7,802,802 B2; US 7,834,886; US 7,914,332; US 8,307,284; US 8,407,374 B2; US 8,499,019 B2; US 8,519,949 B2; US 8,743,292 B2; GB 2,419,119 B; GB 2,447,380 B; and other patents pending.

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2. **DEFINITIONS.** In this Agreement, in addition to the terms defined elsewhere in this Agreement, the following terms have the meanings set out below:

"**Affiliate**" means, with respect to any Person, any other Person who directly or indirectly controls, is controlled by, or is under direct or indirect common control with, such Person. A Person shall be deemed to control a Person if such Person possesses, directly or indirectly, the power to direct or cause the direction of the management and policies of such Person, whether through the ownership of voting securities, by contract or otherwise; and the term "controlled" and "controlling" shall have a similar meaning.

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"**Backup System**" means the secondary piece of Designated Equipment upon which the Software is installed and mirrored for the sole purpose of replacing a Primary System in the event such Primary System is not available or functioning properly for any reason.

"**Change of Control**" means (a) the direct or indirect sale, transfer or exchange by the shareholders of a Party of more than fifty percent (50%) of the voting securities of such Party, (b) a merger or amalgamation or reorganization or other transaction to which a Party is party after which the shareholders of such Party immediately prior to such transaction hold less than fifty percent (50%) of the voting securities of the surviving entity, (c) the sale, exchange, or transfer of all or substantially all of the assets of a Party.

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- (v) is rightfully obtained by the other Party from a third party; or
- (vi) is disclosed with the written consent of the Party whose information it is.

"Designated Equipment" shall mean (a) the hardware products sold by Ross Video to Licensee on which the Software is installed and licensed for use, as the same may be replaced from time to time by Ross Video; or (b) in the case of Software licensed on a stand-alone basis, the equipment of Licensee on which the Software is to be installed and meets the minimum specifications set out in the Documentation.

"Documentation" shall mean manuals, instruction guides, user documentation and other related materials of any kind pertaining to the Software (whether in electronic, hard-copy or other media format) that are furnished to Licensee by or on behalf of Ross Video in relation to the Software.

"Freeware" means Software that is available free of charge from Ross Video, and includes, without limitation the master control system software known as "DashBoard".

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"Released Parties" has the meaning ascribed to it in Section 9(b).

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Either party may disclose certain Confidential Information if it is expressly required to do so pursuant to legal, judicial, or administrative proceedings, or otherwise required by law, provided that (i) such Party provides the other Party with reasonable written notice prior to such disclosure; (ii) such Party seeks confidential treatment for such Confidential Information; (iii) the extent of such disclosure is only to the extent expressly required by law or under the applicable court order; and (iv) such Party complies with any applicable protective or equivalent order.

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The Parties acknowledge and agree that any breach of the confidentiality provisions of this Agreement by one Party may cause significant and irreparable injury to the other Party that is not compensable monetarily, as well as damages that may be difficult to ascertain, and agrees that, in addition to such other remedies that may be available at law or in equity, the other Party shall be entitled to seek injunctive relief (including temporary restraining orders, interim injunctions and permanent injunctions) in a court of competent jurisdiction in the event of the breach or threatened breach by such party of any of the confidentiality provisions of this Agreement. The relief contemplated in this Section shall be available to each Party without the necessity of having to prove actual damages and without the necessity of having to post any bond or other security. Each Party further agrees to notify the other Party in the event that it learns of or has reason to believe that any Person has breached the confidentiality provisions of this Agreement.

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- (1) Unless terminated earlier in accordance with the terms of this Agreement, the term of this Agreement shall commence upon Licensee's first download, access, installation, or other use of the Software or Documentation and continues until, in the case of Software licensed with Designated Equipment provided by Ross Video, the earliest of (a) the end of the License Period, or (b) if the Designated Equipment is assigned or transferred in accordance with this Agreement, the date on which the Designated Equipment is no longer owned by Licensee;
- (2) Either Party shall have the right to terminate this Agreement on notice to the other Party if:
 - (a) the other Party fails to pay any fees or other amounts when due hereunder or under any other agreement between the Parties (or any Affiliates of the Parties, as applicable) in connection with the Software and/or Designated Equipment and such breach is not cured within thirty (30) days after written notice of such failure to pay is given to the defaulting Party by the non-defaulting Party;
 - (b) the other Party shall file a voluntary petition in bankruptcy or insolvency or shall petition for reorganization under any bankruptcy law, consent to an involuntary petition in bankruptcy, or if a receiving order is given against it under the Bankruptcy and Insolvency Act (Canada) or the comparable law of any other jurisdiction (and such is not dismissed within ten (10) days);

- (c) there shall be entered an order, judgment or decree by a court of competent jurisdiction, upon the application of a creditor, approving a petition seeking reorganization or appointing a receiver, trustee or liquidator of all or a substantial part of the other Party's assets and such order, judgment or decree continues in effect for a period of thirty (30) consecutive days; or
- (d) the other Party shall fail to perform any of the other material obligations set forth in this Agreement and such default, in the case of a default which is remediable, continues for a period of thirty (30) days after written notice of such failure has been given by the non-defaulting Party or, in the case of a non-remediable default, immediately upon notice.

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- (b) Licensee shall immediately deliver to Ross Video any of Ross Video's Confidential Information provided hereunder (including the Software and Documentation) then in its possession or control, if any, and shall deliver a certificate of an officer of Licensee certifying the completeness of same;
- (c) Licensee shall refrain from further use of such Confidential Information; and
- (d) Licensee shall forthwith pay all amounts owing to Ross Video or any of its Affiliates hereunder.

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19. **LANGUAGE.** The Parties have expressly required that this Agreement and all documents relating thereto be prepared in English. Les parties ont expressément exigé que cette convention ainsi que tous les documents qui s'y rattachent soient rédigés en anglais.
20. **GOVERNMENT CONTRACTS.** If the Software and/or Documentation to be furnished to Licensee hereunder are to be used in the performance of a government contract or subcontract, the Software and/or Documentation shall be provided on a "restricted rights" basis only and Licensee shall place a legend, in addition to applicable copyright notices, in the form provided under the applicable governmental regulations. For greater certainty, Ross Video shall not be subject to any flow-down provisions required by any customer of Licensee that is a Governmental Authority unless Ross Video expressly agrees to be bound by such flow-down provisions in writing.
21. **EXPORT AND IMPORT LAWS.** Licensee acknowledges and agrees that the Software (including any technical data and related technology) may be subject to the export control laws, rules, regulations, restrictions and national security controls of the United States and other applicable countries (the "**Export Controls**") and agrees not to export, re-export, import or allow the export, re-export or import of such export-controlled Software (including any technical data and related technology) or any copy, portion or direct product of the foregoing in violation of the Export Controls. Licensee hereby represents that it is not an entity or person to whom provision of the Software (including any technical data and related technology) is restricted or prohibited by the Export Controls. Licensee agrees that it has the sole responsibility to obtain any authorization to export, re-export, or import the Software (including any technical data and related technology), as may be required. Licensee will defend, indemnify and hold Ross Video harmless from any and all claims, losses, liabilities, damages, fines, penalties, costs and expenses (including attorney's fees) arising from or relating to any breach by Licensee of its obligations under this Section.
22. **AMENDMENT AND WAIVER.** No amendment, discharge, modification, restatement, supplement, termination or waiver of this Agreement or any Section of this Agreement is binding unless it is in writing and executed by the Party to be bound. No waiver of, failure to exercise or delay in exercising, any Section of this Agreement constitutes a waiver of any other Section (whether or not similar) nor does any waiver constitute a continuing waiver unless otherwise expressly provided.
23. **SEVERABILITY.** Each Section of this Agreement is distinct and severable. If any Section of this Agreement, in whole or in part, is or becomes illegal, invalid, void, voidable or unenforceable in any jurisdiction by any court of competent jurisdiction, the illegality, invalidity or unenforceability of that Section, in whole or in part, will not affect (a) the legality, validity or enforceability of the remaining Sections of this Agreement, in whole or in part; or (b) the legality, validity or enforceability of that Section, in whole or in part, in any other jurisdiction.
24. **ENTIRE AGREEMENT.** This Agreement, and any other documents referred to herein, constitutes the entire agreement between the Parties relating to the subject matter of this Agreement and supersedes all prior written or oral agreements, representations and other communications between the Parties.

Updated: November 1, 2023

Warranty and Repair Policy

Ross Video Limited (Ross) warrants its XPression Monitor systems to be free from defects under normal use and service for the following time periods from the date of shipment:

- XPression Monitor Server — 12 months
- XPression Monitor Software Upgrades — 12 months free of charge
- System and Media hard drives — 12 months

If an item becomes defective within the warranty period Ross will repair or replace the defective item, as determined solely by Ross.

Warranty repairs will be conducted at Ross, with all shipping FOB Ross dock. If repairs are conducted at the customer site, reasonable out-of-pocket charges will apply. At the discretion of Ross, and on a temporary loan basis, plug in circuit boards or other replacement parts may be supplied free of charge while defective items undergo repair. Return packing, shipping, and special handling costs are the responsibility of the customer.

This warranty is void if products are subjected to misuse, neglect, accident, improper installation or application, or unauthorized modification.

In no event shall Ross Video Limited be liable for direct, indirect, special, incidental, or consequential damages (including loss of profit). Implied warranties, including that of merchantability and fitness for a particular purpose, are expressly limited to the duration of this warranty.

This warranty is TRANSFERABLE to subsequent owners, subject to Ross' notification of change of ownership.

Extended Warranty

For customers that require a longer warranty period, Ross offers an extended warranty plan to extend the standard warranty period by one year increments. For more information about an extended warranty for your XPression Monitor system, contact your regional sales manager.

Environmental Information

The equipment that you purchased required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment.

To avoid the potential release of those substances into the environment and to diminish the need for the extraction of natural resources, Ross Video encourages you to use the appropriate take-back systems. These systems will reuse or recycle most of the materials from your end-of-life equipment in an environmentally friendly and health conscious manner.

The crossed-out wheeled bin symbol invites you to use these systems.



If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You can also contact Ross Video for more information on the environmental performances of our products.

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- Introduction 1
 - About This Guide 2
 - Getting Help 3
- XPression Monitor Setup 4
 - Installing XPression Monitor 5
 - Starting and Stopping XPression Monitor 8
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- Management Information Base (MIB) Files 15

Introduction

Thank you for choosing a Ross Video XPression Monitor system.

Ross Video designed XPression Monitor with the needs of live production in mind. XPression Monitor is a tool that is used in conjunction with the XPression Status Client to monitor multiple client machines and ensure that all are operating as intended.

We appreciate your business and sincerely hope that you have a great experience with your new XPression Monitor system. As always, if there is anything we at Ross Video can do to assist you, please do not hesitate to contact us.

[About This Guide](#)  2

[Getting Help](#)  3

About This Guide

This guide covers the use of the XPression Monitor system.

If, at any time, you have questions pertaining to the operation of XPression Monitor, please contact us at the numbers listed in the section [Getting Help](#)³. Our technical staff is always available for consultation, training, or service.

Documentation Conventions

Special text formats are used in this guide to identify parts of the user interface, text that a user must enter, or a sequence of menus and sub-menus that must be followed to reach a particular command.

Bold text

Bold text identifies a user interface element such as a dialog box, menu item, or button.

For example:

In the **Slug** column, type a slug name for the story.

Italic text

Italic text is used to identify the titles of referenced guides, manuals, or documents.

For example:

For more information, refer to the *DashBoard User Guide*.

`Courier text`

Courier text identifies text that a user must type.

For example:

In the **Username** box, type `postgres`.

Menu Sequences

Menu arrows are used in procedures to identify a sequence of menu items that you must follow.

For example:

If a step reads **Server > Save As**, you would select the **Server** menu and then select **Save As**.

[Hypertext](#)

Identifies a hyperlink to a related topic.

Getting Help

XPression Monitor documentation is available online at [Product Documentation](#) and is also accessible on the product USB key and by selecting the **Help** icon in the user interface.

Contacting Technical Support

At Ross Video, we take pride in the quality of our products, but if problems occur, help is as close as the nearest telephone.

Our 24-hour Hot Line service ensures you have access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel. During business hours (Eastern Time), technical support personnel are available by telephone. After hours and on weekends, a direct emergency technical support phone line is available. If the technical support person who is on call does not answer this line immediately, a voice message can be left and the call will be returned shortly. This team of highly trained staff is available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

Technical Support:

- 1-844-652-0645 (North America)
- +800 3540 3545 (International)
- After Hours Emergency: (+1) 613-349-0006
- E-mail: techsupport@rossvideo.com
- Website: <http://www.rossvideo.com>

XPression Monitor Setup

The following topics are discussed in this section:

[Installing XPression Monitor](#)  5

[Starting and Stopping XPression Monitor](#)  8

[Configuring XPression Monitor](#)  12

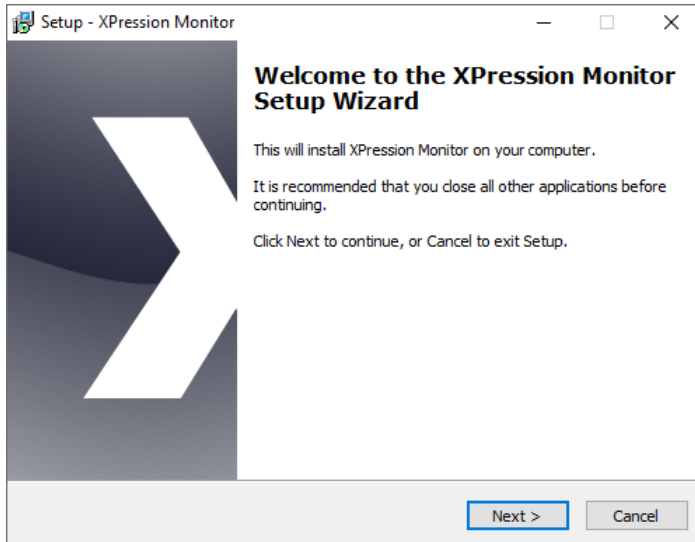
Installing XPression Monitor

Use the following procedures to complete the install of the XPression Monitor:

To install the XPression Monitor:

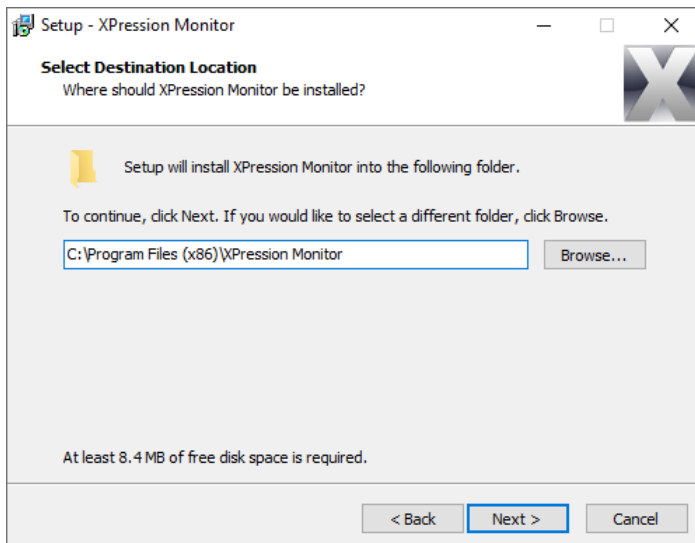
1. Locate and double-click the **xpMonitor-X.X_XXXX.exe** file.

The **Setup - XPression Monitor** page opens.



2. Select **Next**.

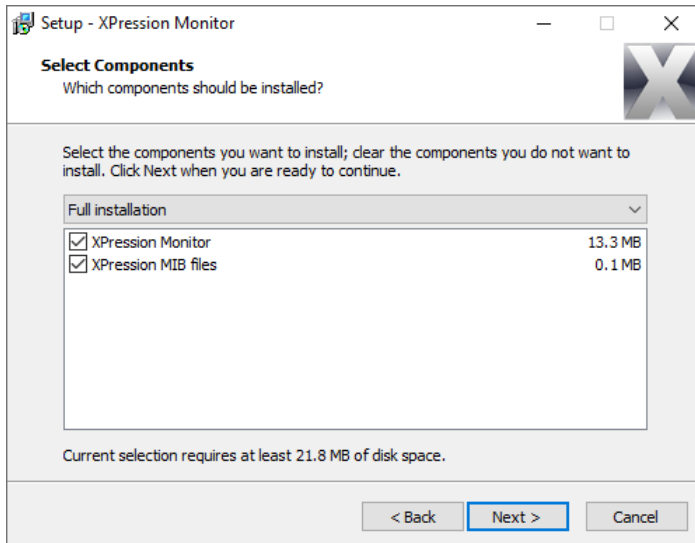
The **Select Destination Location** page opens.



3. Use the default destination folder location or select **Browse** to locate and select a different destination location.

4. Select **Next**.

The **Select Components** page opens.



5. From the **Installation** drop-down, select **Full installation** (default installation):

The **XPression Monitor** and **XPression MIB files** checkboxes are selected.

OR

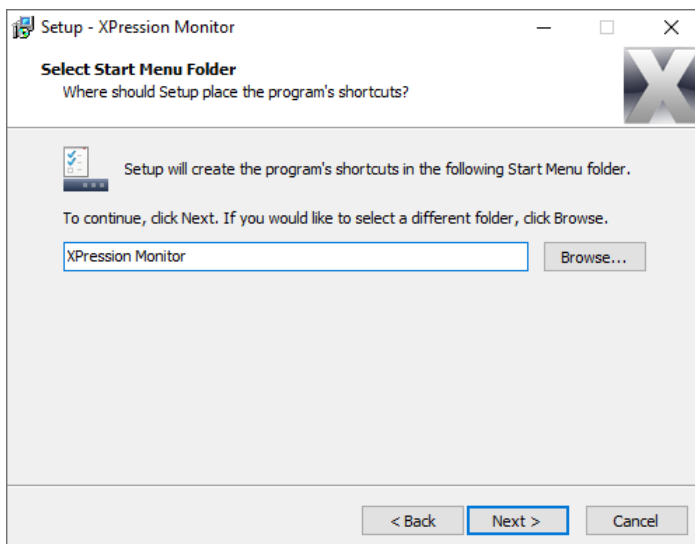
Select **Custom Installation** and configure the install as follows:

- Select the **XPression Monitor** checkbox.
- De-select the **XPression MIB files** checkbox.

The XPression Monitor does not require the MIB files, however the SNMP manager does require them. If installing multiple monitors, only one set of MIB files is required. The files can then be added to the SNMP manager that is used.

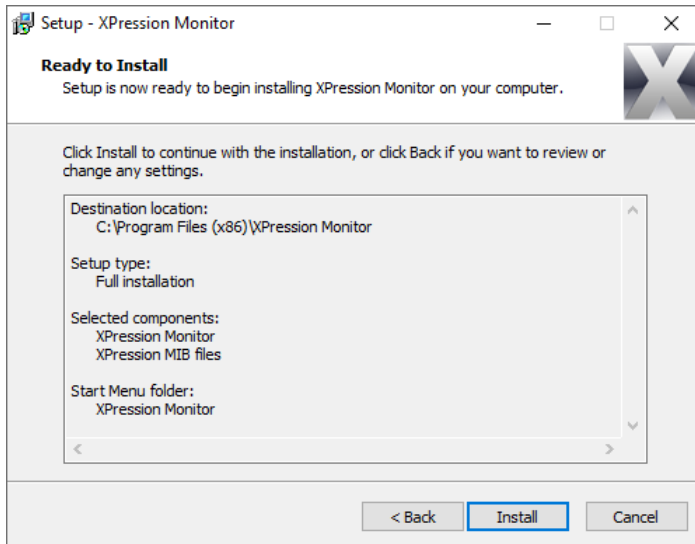
6. Select **Next**.

The **Select Start Menu Folder** page opens.



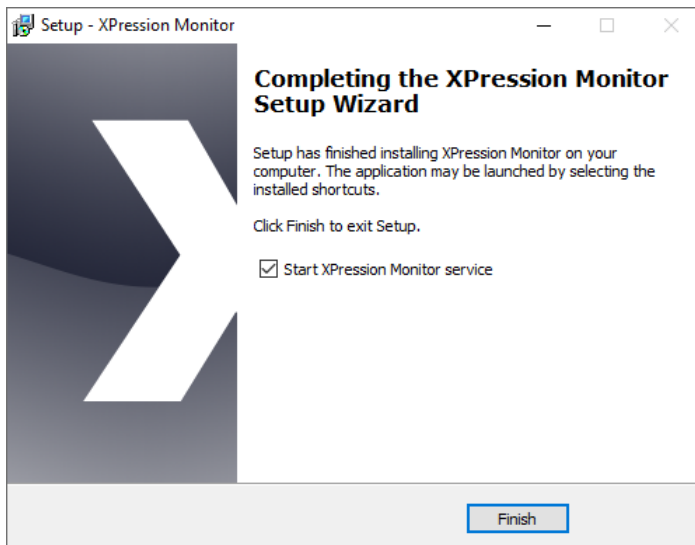
7. Use the default **Start** menu folder location or click **Browse** to locate and select a different **Start** menu location.
8. Select **Next**.

The **Ready to Install** page opens.



9. Select **Install**.

The installation begins. Once the installation is complete, the **Completing the XPression Monitor Setup Wizard** page opens.



10. Select **Finish**.

If the **Start XPression Monitor Service** checkbox is left as selected by default and the installation was successful, an information box is displayed that indicates that the XPression Monitor was successfully started.

Starting and Stopping XPression Monitor

After installing the XPression Monitor, its service is automatically started. However, if the option to start after install is de-selected, if the service has been stopped at any point, or if the service needs to be stopped, use the following procedures to start and stop the Monitor services:

[Starting the XPression Monitor](#)  8

[Stopping the XPression Monitor](#)  10

Starting the XPression Monitor

Use one of the following two methods to start the XPression Monitor.

To start the monitor from the Start menu:

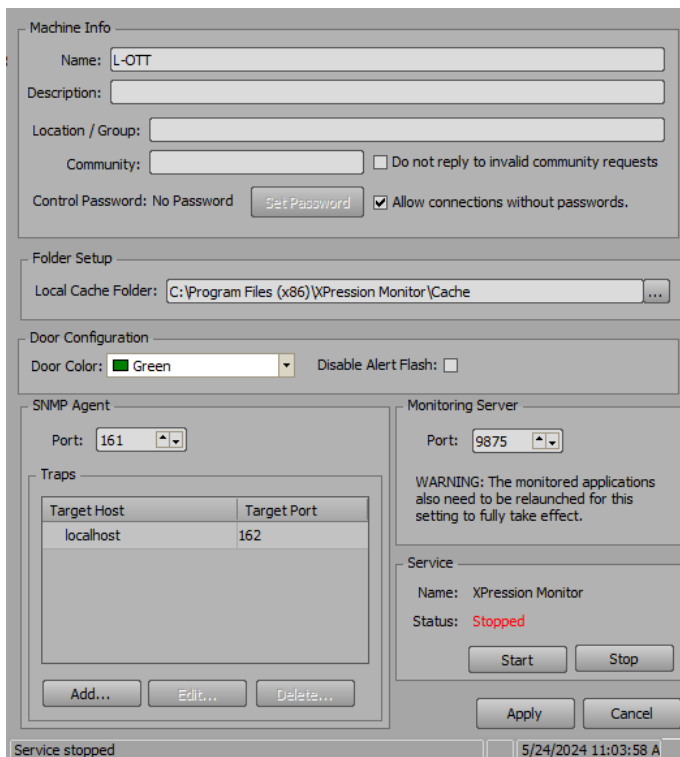
1. On the machine that has the XPression Monitor installed, in the **Start** menu **Search**, type `monitor`.
2. From the results, select **Start Monitor** .

If the Monitor has successfully started, an information message indicates that the XPression Monitor was successfully started.

To start the monitor from the XPression Monitor Admin window:

1. On the machine that has the XPression Monitor installed, in the **Start** menu **Search**, type `monitor`.
2. From the results, select **Monitor Admin** .

The **XPression Monitor Admin** window opens.



Machine Info

Name: L-OTT

Description:

Location / Group:

Community: ☐ Do not reply to invalid community requests

Control Password: No Password ☒ Allow connections without passwords.

Folder Setup

Local Cache Folder: C:\Program Files (x86)\XPression Monitor\Cache

Door Configuration

Door Color: Green ☐ Disable Alert Flash:

SNMP Agent

Port: 161

Traps

Target Host	Target Port
localhost	162

Monitoring Server

Port: 9875

WARNING: The monitored applications also need to be relaunched for this setting to fully take effect.

Service

Name: XPression Monitor

Status: Stopped

Service stopped 5/24/2024 11:03:58 A

3. In the **Service** section, select **Start**.

The service begins starting. Once the service has started successfully, the **Status** is indicated as **Running**.

The screenshot shows the XPression Monitor Setup dialog box with the following sections and settings:

- Machine Info**: Name: L-OTT, Description: (empty), Location / Group: (empty), Community: public, ☐ Do not reply to invalid community requests, Control Password: No Password, ☒ Allow connections without passwords.
- Folder Setup**: Local Cache Folder: C:\Program Files (x86)\XPression Monitor\Cache\
- Door Configuration**: Door Color: Green, ☐ Disable Alert Flash:
- SNMP Agent**: Port: 161
- Monitoring Server**: Port: 9875, WARNING: The monitored applications also need to be relaunched for this setting to fully take effect.
- Traps**: A table with two columns: Target Host and Target Port. The first row contains 'localhost' and '162'. Below the table are buttons: Add..., Edit..., Delete...
- Service**: Name: XPression Monitor, Status: Running,
- Buttons**:
- Footer**: 1/16/2025 11:42:23 A

Stopping the XPression Monitor

Use one of the following two methods to stop the XPression Monitor.

To stop the XPression Monitor from the Start menu:

1. On the machine that has the XPression Monitor installed, in the **Start** menu **Search**, type **monitor**.
2. From the results, select **Stop Monitor** (🖱️).

If the Monitor has been successfully stopped, an information message indicates that the XPression Monitor was successfully stopped.

To stop the XPression Monitor from the XPression Monitor Admin window:

1. On the machine that has the XPression Monitor installed, in the **Start** menu **Search**, type `monitor`.
2. From the results, select **Monitor Admin** (🖱️).

The **XPression Monitor Admin** window opens.

The screenshot shows the XPression Monitor Admin window with the following sections:

- Machine Info**: Fields for Name (L-OTT), Description, Location / Group, and Community. A checkbox for "Do not reply to invalid community requests" is present. A "Control Password" section shows "No Password" with a "Set Password" button and a checked checkbox for "Allow connections without passwords."
- Folder Setup**: A field for "Local Cache Folder" set to "C:\Program Files (x86)\XPression Monitor\Cache".
- Door Configuration**: A "Door Color" dropdown set to "Green" and a "Disable Alert Flash" checkbox.
- SNMP Agent**: A "Port" dropdown set to "161". Below it is a "Traps" table:

Target Host	Target Port
localhost	162

Buttons for "Add...", "Edit...", and "Delete..." are at the bottom.
- Monitoring Server**: A "Port" dropdown set to "9875". A warning message states: "WARNING: The monitored applications also need to be relaunched for this setting to fully take effect."
- Service**: Fields for "Name" (XPression Monitor) and "Status" (Unknown). "Start" and "Stop" buttons are present.
- Buttons**: "Apply" and "Cancel" buttons are at the bottom right.
- Status Bar**: At the bottom left, it says "Failed to start service". At the bottom right, it shows the date and time "12/12/2024 11:18:22".

3. In the **Service** section, select **Stop**.

The service begins to stop and the **Status** in the **Service** section indicates that the XPression Monitor has been **Stopped**.

The screenshot shows the XPression Monitor Setup window with the following sections:

- Machine Info**: Name: L-OTT, Description: (empty), Location / Group: (empty), Community: (empty), ☐ Do not reply to invalid community requests, Control Password: No Password, ☒ Allow connections without passwords.
- Folder Setup**: Local Cache Folder: C:\Program Files (x86)\XPression Monitor\Cache
- Door Configuration**: Door Color: Green, ☐ Disable Alert Flash:
- SNMP Agent**: Port: 161,

Target Host	Target Port
localhost	162
- Monitoring Server**: Port: 9875, WARNING: The monitored applications also need to be relaunched for this setting to fully take effect.
- Service**: Name: XPression Monitor, Status: Stopped,

Service stopped 5/24/2024 11:03:58 A

Configuring XPression Monitor

Use the **XPression Monitor Admin** to configure the XPression Monitor.

★ All monitor settings are stored in **xpMonitor.dat** in the installation folder of the XPression Monitor except for the **Monitoring Server** port, which is stored in the Windows registry.

To configure the XPression Monitor:

1. On the machine that has the XPression Monitor installed, in the **Start** menu **Search** field, enter **monitor**.
2. From the results, select **XPression Monitor Admin** (🔍).

The **XPression Monitor Admin** window opens.

Machine Info

Name: L-OTT

Description:

Location / Group:

Community: ☐ Do not reply to invalid community requests

Control Password: No Password ☒ Allow connections without passwords.

Folder Setup

Local Cache Folder: C:\Program Files (x86)\XPression Monitor\Cache

Door Configuration

Door Color: Green Disable Alert Flash: ☐

SNMP Agent

Port: 161

Traps

Target Host	Target Port
localhost	162

Monitoring Server

Port: 9875

WARNING: The monitored applications also need to be relaunched for this setting to fully take effect.

Service

Name: XPression Monitor

Status: Unknown

Failed to start service 12/12/2024 11:18:22

3. In the **Machine Info** section, configure the following:
 - **Name** — use this box to enter the name of the machine. It is auto-populated with the machine currently in use.
 - **Description** — use this box to enter a brief description for the machine if necessary.
 - **Location / Group** — use this box to enter the location of the machine or a group the machine is associated with.
 - **Community** — use this box to assign a custom SNMP community.
 - **Do not reply to invalid community requests** — select this check to not send replies to invalid community requests. It is not selected by default, sending a reply when an invalid request has been sent.

- **Allow connections without passwords** (selected by default) — when selected, a control password is not required to access control of the monitor. If selected, select **Set Password** to enter and verify a password for control of the monitor.

- In the **Folder Setup** section, use the **Local Cache Folder** field to enter a file path for the local cache folder for the monitor or click **Browse (...)** to select a file path.

It is set to the XPression Monitor cache folder in the **Program Files** by default.

- In the **Door Configuration** section, select a color from the **Door Color** list to set the color of the XPression Engine unit's front door light.
- Also in the **Door Configuration** section, clear the **Disable Alert Flash** to enable the XPression Engine unit's ability to flash when the **Locate** button is selected in the **XPression Status Client** application.

Select the checkbox to disable and prevent the logo from flashing when the **Locate** button is selected.

- In the **SNMP Agent** section, use the **Port** field to enter or select an SNMP port number.

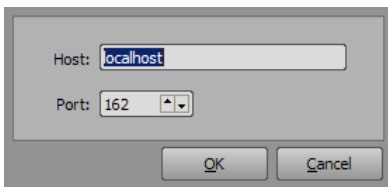
On a system that does not have the Windows SNMP agent or another SNMP agent running, the default SNMP port 161 can be used and does not have to be changed. The third-party SNMP manager will need to be configured accordingly.

- Use the **Traps** list to add, delete, and edit a list of host/port targets for SNMP traps (notifications).

The default is one target on local host port 162. However, this would usually be changed to the corresponding setting in the third-party SNMP manager (it is also likely that it will not be local, as there will probably be a single SNMP manager that all XPression Monitor services on different machines will target for notifications).

- Select **Add**, to add a target host.

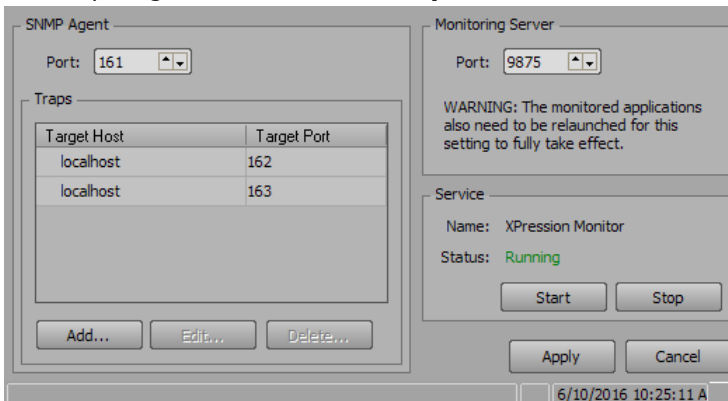
The **Add Trap Target** dialog opens.



The Add Trap Target dialog box is shown. It has a 'Host' field with 'localhost' entered and a 'Port' field with '162' selected from a dropdown menu. There are 'OK' and 'Cancel' buttons at the bottom.

- Use the **Host** field to enter or select the target host IP address for the SNMP traps.
- Use the **Port** field to enter or select the target port number for the SNMP traps.
- Select **OK**.

The trap target is added to the **Traps** list.



The SNMP Agent configuration window is shown. It has a 'Port' field set to 161. Below it is a 'Traps' table with two entries: 'localhost' on port 162 and 'localhost' on port 163. There are 'Add...', 'Edit...', and 'Delete...' buttons below the table. To the right is a 'Monitoring Server' section with a 'Port' field set to 9875 and a warning message. Below that is a 'Service' section with 'Name: XPression Monitor' and 'Status: Running', with 'Start' and 'Stop' buttons. At the bottom are 'Apply' and 'Cancel' buttons, and a timestamp '6/10/2016 10:25:11 A'.

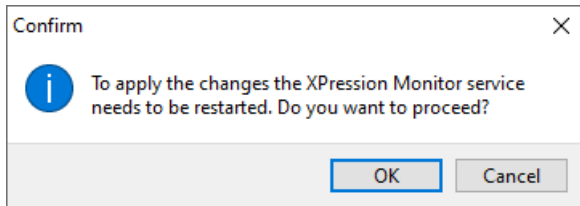
Target Host	Target Port
localhost	162
localhost	163

9. In the **Monitoring Server** section, use the **Port** field to enter or select a port number for XPression applications to communicate with the XPression Monitor.

By default, every XPression application will try to communicate with the XPression Monitor on local host port **9875**. This communication is purely internal, and there is no reason to change the Monitoring Server port, unless it conflicts with another application using the same port.

10. Select **Apply** for the changes to take effect.

A confirmation prompt opens that indicates a need to restart the XPression Monitor service.



11. Select **OK**.

The **Status** in the **Service** section momentarily indicates that the XPression Monitor has been **Stopped** while the service is restarting. Once the service has restarted successfully, the **Status** is indicated as **Running**.

12. If the **Monitoring Server** port has been changed, restart the XPression Monitor and relaunch any monitored applications.

Management Information Base (MIB) Files

MIB Tree

The structure of the data in SNMP is organized in a static tree. That tree hierarchy is described in a collection of MIBs. Each MIB defines a node in that hierarchy – a module – of conceptually grouped “managed objects”, using a subset of the ASN.1 language. Managed objects are uniquely identified with an OID. MIBs are “published”, and once they are defined, OIDs are defined permanently.

For instance, Ross Video has an assigned OID under the ‘enterprises’ node:

- .iso.org.dod.internet.private.enterprises.rossVideo
- .1.3.6.1.4.1.27399 (numerically)

The XPression top-level is defined in (ROSS-XPRESSION-MIB) under 1.3.6.1.4.1.27399.4. Specifically, everything currently provided by the XPression Monitor is under:

- iso.org.dod.internet.private.enterprises.rossVideo.xpression.xpressionObjects
- .1.3.6.1.4.1.27399.4.1

The values of MIB objects can be queried using the SNMP GET request. The object queried is identified by its OID and an instance number. For scalar objects, the instance is always 0. For objects within a table, the instance is an index value, as defined by the index type of the table entry (in the simplest case, an integer). For objects within a table with multiple dimensions, the instance is a dot-separated list of indices, with one index for each of the table's dimensions.

For instance, to get the number of applications on an XPression workstation, one would query for:

- .1.3.6.1.4.27399.4.1.3.1.1.0
- (iso.org.dod.internet.private.enterprises.rossVideo.xpression.xpressionObjects.xpressionAppMib.xpressionAppObjects.xpNumberOfApps.0)

The SNMP GETNEXT request is also supported. It is usually used to query the content of whole table.

MIB Files

ROSS-XPRESSION-APP.mib – Status and notifications generally pertaining to any XPression application are defined in ROSS-XPRESSION-APP.mib. The main entry in this MIB is the XPression application table, which collects the data that is commonly available for all the XPression executables. This includes the title, filename, version, process ID, status, heartbeat, last exception thrown, dongle status, set of licenses, editions, and options used by the application, etc.

ROSS-XPRESSION-ENGINE.mib – Status and notifications pertaining specifically to an XPression engine (Studio, BlueBox, Prime, GO, Tessera, etc.) are defined in ROSS-XPRESSION-ENGINE.mib. The main entry in this MIB is the engine table (since there is usually a single engine per workstation, this table usually has a single row). Alongside it is the projects table (for loaded projects), the remote connection table (clients connected to the engine remote server), and the I/O board table (for I/O boards configured on this engine), and board temperature (if available). The engine table includes the render and UI thread statuses, performance meter, memory usage, number of configured inputs, outputs and I/O boards, remoter server status, etc.

ROSS-XPRESSION-GATEWAY.mib – Status and notifications pertaining specifically to an XPression gateway are defined in ROSS-XPRESSION-GATEWAY.mib. The main entry in this MIB is the gateway table (since there is usually a single gateway per workstation, this table usually has a single row). Alongside it are the server and connection tables for each server on the gateway (plug-in, MOS, remote sequencer), as well as the status for the output engine and offline/preview engine connections, and a running orders table.

ROSS-XPRESSION-HW.mib – Status and notifications pertaining to the hardware platform are defined in ROSS-XPRESSION-HW.mib. For the XPression Monitor to report these, the openHardwareMonitor application must be running (openHardwareMonitor software is a widely available free downloadable open source application). A table of hardware devices is defined – it matches what openHardwareMonitor supports and detects. A table of sensors is also defined – again reporting the data collecting by openHardwareMonitor. Each sensor has a type and reports a min value and max value in a given unit. Note that each sensor belongs to a hardware device, but SNMP does not support nested tables, so the sensor table is alongside the device table.

★ Refer to the descriptions in the MIB files for more details about the data available for monitoring.

Contact Us

Contact our friendly and professional support representatives for the following:

- Name and address of your local dealer
- Product information and pricing
- Technical support
- Upcoming trade show information

Technical Support	Telephone:	+1-844-652-0645 (North America) +800 3540 3545 (International)
	After Hours Emergency:	+1 613 • 349 • 0006
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General Information	Telephone:	+1 613 • 652 • 4886
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