

VERSION 8.0B

FEBRUARY 2026

Product release notes

SmartShell

ROSS



PRODUCT RELEASE NOTES

Welcome to the SmartShell 8.0b Release Notes. Please read this document to find essential information about aspects of the SmartShell control system that may not be described in the SmartShell User Guide.

This document includes version history for past releases. However, the **Known Issues** section applies only to the most recent release.

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VERSION HISTORY

VERSION 8.0b – February 2026

WHAT'S NEW

- **SmartShell Configurator**
 - This release includes support for tally preview in both TSL Tally v3.1 and v5.
- **SmartShell**
 - Tally display supports 'Preview'.
- **Robotics Server**
 - This release adds support for 'Preview' in TSL Tally v3.1 and v5, including support for forwarding preview status to Artimo and X350.
 - Support has been added for BlackMagic Desktop Video Driver version 15.x.

LOAD LINEUP

- SmartShell & Servers
 - SmartShell Configurator 8.0.135
 - Requires MariaDB
 - SmartShell 8.0.200.6
 - Robotics Server 8.0.200.6
 - SmartShell CX Panel Adapter 1.0.0-2025.04.08-14.04

UPGRADE CONSIDERATIONS

- Uninstall SmartShell 8.0a and Robotics Server 8.0a before installing 8.0b.
- If a data root folder other than the default D:\ is used, this will need to be changed again after installation of 8.0b as the uninstall of 8.0a will lose this setting.

This is stored in C:\Program Data\Ross Video\Robotics Server\ManagedServiceHost.config

```
<ManagedServicesHost Name="Robotics Services Host" DataRootFolder="D:\">
```

BUGS ADDRESSED

- When installing Robotics Server and SmartShell 8.0, some errors were found in firewall configuration. The installer has been updated to correctly configure the firewall. (CYLS-1513)
- The set-up tool included with SmartShell Configurator 8.0a required OpenGL to run. A new set-up tool has been created that no longer requires OpenGL and provides more flexibility in installation. (CYLS-1519)
- The Robotics Server config needed to be manually updated to use the same port as assigned in the SmartShell Configurator set-up tool. Now the Robotics server will automatically read what port is being used and update the config. (RCS-120)
- When "Enable Sony ELC Mode" was selected in the RCCP service configuration section, the MaxShots parameter was fixed to 1000 and the MaxHeads parameter

was fixed to 8. There was no ability to override those values. Now when "Enable Sony ELC Mode" is selected, the MaxShots and MaxHeads parameters default to ELC-compatible values, but can still be overridden. (CYLS-1538)

VERSION 8.0a – November 2025

WHAT'S NEW

- **SmartShell Configurator**

- This release adds a new web interface for configuring the system.
- The configuration user interface adds a secure login method, providing role-based access to the configuration of the system that can restrict access to only users given the correct permissions.
- The new configuration UI makes configuring the system and third-party device integration easier with a selection of known devices as well as defaults.
- Shows and Studios can be created within the application as logical groupings of camera, SmartShell camera groups allows for selection of studios or shows to filter the cameras displayed.

- **SmartShell**

- This release integrates with the new SmartShell Configurator as a central location for the storage of the system configuration removing the need to duplicate text configuration files. This allows a single configuration to exist that each control station pulls from making set-up simpler.
- On startup the system requires the operator logs onto the system, restricting access to the system.
- Camera Groups uses the central server to configure groups of cameras by Studio, Show or allowing the operator to select from the known cameras.
- SmartShell now comes packaged within an installer for easy upgrading and installation of dependencies.

- **Robotics Server**

- This release integrates with the new SmartShell Configurator as a central location for the storage of the system configuration removing the need to duplicate text configuration files.
- Configuration files that were part of services bundled with the Robotics Server have been replaced by system configuration in the SmartShell Configurator, making set-up more intuitive.
- Thumbnails are now served by the SmartShell Configurator avoiding the need to configure IIS on the server.
- Robotics Server now comes packaged within an installer for easy upgrading and installation of dependencies.

LOAD LINEUP

- SmartShell & Servers
 - SmartShell Configurator 8.0.30
 - Requires MariaDB
 - Requires Java 21
 - SmartShell 8.0.100.9
 - Requires .NET Framework 4.8
 - Robotics Server 8.0.100.9
 - Requires Visual C++ Redistributable Packages for Visual Studio 2017 (32-bit)
 - Requires .NET Framework 4.8
 - SmartShell CX Panel Adapter 1.0.0-2025.04.08-14.04

- Robotics Firmware
 - Furio Firmware – Artimo free-roaming pedestal
 - Furio-arm64-7.2.300.07
 - Runs on Artimo free-roaming pedestal only
 - Artimo OS 1.01
 - Artimo axis configuration:
 - Pan – 5130ER-003-01_144
 - Left Wheel – 5130ER-007-01_144
 - Right Wheel – 5130ER-006-01_144
 - Tilt – 5130ER-004-01_142
 - Lift – 5130ER-005-01_141
 - Artimo dolly board firmware 0.17
 - Furio Firmware – Other robots
 - Furio-phy-7.0.200.04
 - Runs on phyCORE-equipped VR600, VR100, and X-series heads
 - Furio-i686-7.0.200.04
 - Runs on CamBot XY pedestals having Furio OS
 - Upgrading CamBot OS to Furio OS requires a flash card replacement
 - Latest Furio OS is version 20210505-1 for Gen2 bricks, and 20211016-1 for Gen3 bricks.
 - CamBot Firmware
 - 3.4.300.3105 for 520PT and 600PT/600PTL heads
 - 3.7.200.3112 for XY pedestals
 - Joystick Firmware 4.6.100.7375
 - VISCA Protocol Converter Firmware 3.4.150.2962
 - Vinten Legacy Protocol Converter Firmware 1.3.100.2671
 - Collision Avoidance Firmware 1.2.70 (Tested on Collision Avoidance Module 5100AR-750-02)

VERSION 7.3b – October 2025

WHAT'S NEW

- **SmartShell**
 - This release allows external changes to a camera group file to be dynamically loaded by SmartShell without having to restart. This change also includes the ability to specify an alternative camera name within the camera group file. These features allow third party automation systems to change camera groups and camera display names without needing to restart SmartShell.
- **Robotics Server**
 - This release introduces support for capturing thumbnails using NDI (Network Device Interface). This feature allows you to capture high-quality thumbnails from any supported NDI-enabled source. This can be combined with existing SDI capture from other sources or to avoid the need for a hardware capture card.

LOAD LINEUP

- SmartShell & Servers
 - SmartShell 7.3.200.02
 - Requires .NET Framework 4.6.1
 - Robotics Server 7.3.200.02 & Integrated Server 7.3.200.02
 - Requires Visual C++ Redistributable Packages for Visual Studio 2017 (32-bit)
 - Requires .NET Framework 4.5.2
 - SmartShell CX Panel Adapter 1.0.0-2025.04.08-14.04
 - Bridge Server 7.0.100.8410
- Robotics Firmware
 - Furio Firmware – Artimo free-roaming pedestal
 - Furio-arm64-7.2.300.07
 - Runs on Artimo free-roaming pedestal only
 - Artimo OS 1.01
 - Artimo axis configuration:
 - Pan – 5130ER-003-01_144
 - Left Wheel – 5130ER-007-01_144
 - Right Wheel – 5130ER-006-01_144
 - Tilt – 5130ER-004-01_142
 - Lift – 5130ER-005-01_141
 - Artimo dolly board firmware 0.17
 - Furio Firmware – Other robots
 - Furio-phy-7.0.200.04
 - Runs on phyCORE-equipped VR600, VR100, and X-series heads
 - Furio-i686-7.0.200.04
 - Runs on CamBot XY pedestals having Furio OS

- Upgrading CamBot OS to Furio OS requires a flash card replacement
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- CamBot Firmware
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BUGS ADDRESSED

- When video routing with a device using the Probel SW-P-08 protocol, switch requests to establish a route that was already in place would result in a routing “timed-out” error in SmartShell, and further switch requests made before the time out would be dropped with a “Router is busy” error. The routing server will no longer timeout while waiting for a data reply from the Probel device and instead waiting only for an ACK to confirm the switch request has occurred. (RCS-43) (ROB-5390)
- When video routing with a device using the Probel SW-P-08 protocol, switch request sent close together could result in some switch requests being dropped with a “Router is busy” error. The routing server now processes Probel switch requests since it only waits for an ACK response, so switch requests sent close together are no longer dropped. (RCS-94)
- When there were gaps in an active Camera Group, the tally status indication would sometimes not be shown on the correct camera button on the CX-3R panel. Tally indication now follows camera buttons on CX-3R when blanks are used in Groups. (RCS-51)
- On loss of connection to a CX-3R, SmartShell sometimes didn’t reconnect. Fixed the issue and SmartShell will now always reconnect to a CX-3R after losing connection. (RCS-54)
- A security vulnerability related to binary format deserialization was discovered in the CamBot File Importer feature. The CamBot File Importer has been removed to address this issue. (RCS-46)

KNOWN ISSUES

This section outlines known issues in the latest release.

SMARTSHELL

- Presets: In some instances, after an XY pedestal preset has been cued adjusting a non-XY axis does not allow the preset to be re-cued. A workaround would be to slightly adjust the XY axis to enable re-cueing. (ROB-6411)
- Macros: When Stop All is used to halt a running macro, the progress bar on the macro does not stop if the macro contains presets for XY pedestals. The XY pedestals do stop. (ROB-2032)

ROBOTICS SERVER

- Paint Recall: Extra care is required when using the Paint Recall feature with Furios. The camera settings database is stored on the Robotics Server, while the Furio presets are stored on the Furio head. When taking a backup of Furio presets and moves, a corresponding backup must be taken of the camera settings database for that Furio. When restoring Furio presets and moves from a backup, the corresponding camera settings database must also be restored. A separate document is available that outlines the backup and restore procedure for Paint Recall. (ROB-1890)
- Installer: The Robotics Server Installer can get stuck in a loop when upgrading if the existing service cannot be removed. A workaround if this happens is to restart the machine. (RCS-74)
- Installer: The Robotics Server Installer can sometimes fail to upgrade if it fails to stop. A workaround if this happens is to use Task Manager to kill the Managed Service Host before retrying. (RCS-111)
- Installer: When upgrades from 8.0a to 8.0b can be unsuccessful. A workaround is to fully uninstall the 8.0a Robotics Server, and install 8.0b. (CYLS-134)

GETTING HELP

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 any time. Emergency after hours calls are answered by an answering service (live person) who will patch your call to the on-call support specialist. In the event that the on-call person is assisting another customer, the answering service will contact the back-up support specialist.

Our team of highly trained staff is available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

Toll-free Technical Support 24/7: 1-844-652-0645 (North America), or +800 1005 0100 (International)

Technical Support: (+1) 613-652-4886

E-mail for Technical Support: techsupport@rossvideo.com

ROSS VIDEO | HELP CENTER: <https://support.rossvideo.com/hc/en-us>

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