

Setting Up the CamBot Translation Server

The CamBot Translation Server software enables the DashBoard PT Head Control plugin to control CamBot PT heads.

This document describes how to install and configure the CamBot Translation Server. It includes the following topics:

- "About the CamBot Translation Server" on page 1
- "Before You Begin" on page 1
- "Install the CamBot Translation Server" on page 2
- "Configure the CamBot Translation Server" on page 4
- "Add CamBots in DashBoard" on page 7

About the CamBot Translation Server

The CamBot Translation Server is a Windows service that facilitates communication between the DashBoard Control System and CamBot PT heads. Only one CamBot Translation Server is required, even if there are multiple robot control workstations.

Set up a CamBot Translation Server only if advised to do so by Ross Video.

The CamBot Translation Server is intended for the following scenarios:

- You are installing CamBot PT heads and intend to control them using DashBoard instead of SmartShell.
- You are changing your existing CamBot control system from MasterPanel to DashBoard.

IMPORTANT: The DashBoard PT Control plugin interface is very different than CamBot MasterPanel. Some MasterPanel features are not available in DashBoard. Shots created in MasterPanel can not be imported into DashBoard. All existing shots are lost. For more information, contact Ross Video Technical Support.

IMPORTANT: The CamBot Translation Server must **NOT** be used if one or more of the robots you intend to control through DashBoard is also to be controlled through any of the following:

- · SmartShell control application in conjunction with Robotics Server
- · CamBot MasterPanel control application.

Before You Begin

Perform the following tasks before you install the CamBot Translation Server:

1. Read this entire document carefully.

If you have any questions, contact Ross Video Technical Support.

Check that your CamBot PT heads are running firmware v3.4.xxx, and upgrade if necessary.
 For information about upgrading CamBot firmware, contact Ross Video Technical Support



3. Determine which computer will run the CamBot Translation Server:

Robotics

- The computer must be network-accessible to all CamBot heads and all robot control workstations using DashBoard to control CamBots.
- If there will be only one robot control workstation, use it as the CamBot Translation Server to ensure the service is always available when required.
- If there will be multiple robot control workstations, choose a computer that will remain powered on, to ensure the service is always available when required.

Note: It is possible to have multiple CamBot Translation Servers on a network, but only one CamBot Translation Server can connect to a particular CamBot PT head at a time.

4. Download the CamBot Translation Server zip file from the Ross Video website:

https://www.rossvideo.com/support/software-downloads/robotic-camera-systems/.

5. Install the latest version of the DashBoard Control System application on each robot control workstation computer.

DashBoard and the DashBoard User Guide are available as free downloads from Ross Video. The DashBoard User Guide contains instructions for installing DashBoard. Both are available from the following location:

http://www.rossvideo.com/control-systems/dashboard/index.html.

6. Obtain a list of all CamBot PT heads you want to control, including their robot names, IP addresses, and CamBot models (520PT or 600PT).

Install the CamBot Translation Server

Once installed, the CamBot Translation Server automatically starts whenever the computer reboots.

To install the CamBot Translation Server:

- 1. Extract the CamBot Translation Server zip file (CamBot Translation Server x.x.x.zip) to C:\Ross.
- 2. Note the version number of the zip file, as represented by x.x.x.x in Step 1. For example, 5.2.100.6999.
- 3. Start the Command Prompt application:
 - a. Open the Windows Start menu and then start typing Command Prompt, until the Command Prompt application appears in the list.
 - b. Right-click Command Prompt and then click Run as administrator. See Figure 1.



Figure 1 - Starting the Command Prompt Application





The Administrator: Command Prompt window appears. See Figure 2.



Figure 2 - Command Prompt Window

- 4. In the **Command Prompt** application, navigate to the **CamBot Translation Server** folder:
 - a. Type CD followed by a space and the folder path, for example, CD C:\Ross\CamBot Translation Server x.x.x.x), where x.x.x.x represents the version number you noted in Step 2. See Figure 3.



Figure 3 - Navigating to the CamBot Translation Server folder

- b. Press Enter.
- 5. At the command prompt, type ManagedServicesHost.exe -install, and then press Enter. See Figure 4.



Figure 4 - Installing ManagedServicesHost.exe





The service is installed. See Figure 5.



Figure 5 - ManagedServiesHost.exe is installed successfully

6. When the command prompt reappears, close the **Command Prompt** application.

Configure the CamBot Translation Server

Configure the CamBot Translation Server by registering the CamBot PT heads you want to control.

For this procedure, you will need the list of CamBot PT heads you obtained earlier.

To configure the CamBot Translation Server:

- 1. On the CamBot Translation Server computer, navigate to the C:\Ross\CamBot Translation Server x.x.x.x folder.
- 2. Open the CamBotTranslationServer.config file in a plain text editor such as Windows Notepad, or in an XML editor.
- 3. Find the list of Robots, as shown in Figure 6.





<Robots>

<Robot·Id="1"·Name="CAM1"·Protocol="Cambot"·HostName="192.168.0.91"·Type="520PT"·/> <Robot·Id="2"·Name="CAM2"·Protocol="Cambot"·HostName="192.168.0.92"·Type="520PT"·/> <Robot·Id="3"·Name="CAM3"·Protocol="Cambot"·HostName="192.168.0.94"·Type="520PT"·/> <Robot·Id="5"·Name="CAM4"·Protocol="Cambot"·HostName="192.168.0.94"·Type="520PT"·/> <Robot·Id="5"·Name="CAM5"·Protocol="Cambot"·HostName="192.168.0.95"·Type="520PT"·/> <Robot·Id="6"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="6"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="7"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"·/> <Robot·Id="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.98"·Type="520PT"·/> <Robot·Id="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.98"·Type="520PT"·/>

Figure 6 - The Robots section of the CamBotTranslationServer.config file, shown in an XML editor

- 4. Starting with the first entry, edit the list of Robots to add the CamBot PT heads you want to control (Figure 7):
 - Edit the value of the Name attribute to match the name of the CamBot PT head.
 - Edit the value of the HostName attribute to match the IP address of the CamBot PT head.
 - Edit the value of the Type attribute to match the model of CamBot PT head (520PT or 600PT).

Note: The value of the Id attribute must start at 1 for the first entry, and proceed upwards to 2, 3, etc.

<Robots>

<RobotId="1"·Name="Right"·Protocol="Cambot"·HostName="196.90.112.01"·Type="520PT"/>
<RobotId="2"·Name="Center"·Protocol="Cambot"·HostName="196.90.112.02"·Type="600PT"/>
<RobotId="3"·Name="Left"·Protocol="Cambot"·HostName="196.90.112.03"·Type="520PT"/>
<RobotId="4"·Name="CAM4"·Protocol="Cambot"·HostName="192.168.0.94"·Type="520PT"/>
<RobotId="5"·Name="CAM5"·Protocol="Cambot"·HostName="192.168.0.95"·Type="520PT"/>
<RobotId="6"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="6"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="7"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="7"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.96"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.98"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.98"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.98"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.98"·Type="520PT"/>
<RobotId="8"·Name="CAM6"·Protocol="Cambot"·HostName="192.168.0.98"·Type="520PT"/>

Figure 7 - Editing the list of Robots (edited entries are shown highlighted yellow)

5. Delete or comment out any unused entries (Figure 8).

```
<Robots>
<Robot·Id="1"·Name="Right"·Protocol="Cambot"·HostName="196.90.112.01"·Type="520PT"·/>
<Robot·Id="2"·Name="Center"·Protocol="Cambot"·HostName="196.90.112.02"·Type="600PT"·/>
<Robot·Id="3"·Name="Left"·Protocol="Cambot"·HostName="196.90.112.03"·Type="520PT"·/>
</Robots>
```

Figure 8 - The Robots list after editing, with unused entries deleted

- 6. Save and close the CamBotTranslationServer.config file.
- 7. Restart the CamBot Translation Service Host service:
 - a. Open the Windows Start menu and then start typing Services, until the Services application appears in the list.
 - b. Right-click Services and then click Run as administrator. See Figure 9.







ŵ	Best match	
	Services	
0	A G Run as administrator	
	Apps D Open file location	
	🍬 Con → Pin to Start	
	Search th - Pin to taskbar	

Figure 9 - Launching the Services Window

The Services window appears. See Figure 10.

Services					-	- 🗆	\times
<u>F</u> ile <u>A</u> ction <u>V</u> iew	Help						
(=) 🖬 🖗 =	è 🛛 🖬 🕨 🕨 🖬 🕪						
🔅 Services (Local)	Services (Local)						
	Select an item to view its description.	Name	Description	Status	Startup Type	Log On As	^
		🎑 ActiveX Installer (AxInstSV)	Provides Use		Manual	Local System	
		🎑 Adobe Acrobat Update Service	Adobe Acro	Running	Automatic	Local System	
		🎑 Adobe Flash Player Update Service	This service		Manual	Local System	
		🎑 Adobe Genuine Monitor Service	Adobe Genu	Running	Automatic	Local System	
		🎑 Adobe Genuine Software Integrity Service	Adobe Genu	Running	Automatic	Local System	
		🎑 AdobeUpdateService		Running	Automatic	Local System	~
	Extended Standard						

Figure 10 - The Services Window

c. Find and select the CamBot Translation Service Host service. See Figure 11.

Services (Local)				
CamBot Translation Service Host	Name	Description	Status	Startup Type
	CamBot Translation Service Host		Running	Automatic
Stop the service	🎇 Capability Access Manager Service	Provides faci	Running	Manual
Kestart the service	🆏 CaptureService_c0c19	OneCore Ca		Manual
	🎑 Certificate Propagation	Copies user	Running	Manual (Trigg
Extended Standard				

Figure 11 - Selecting the CamBot Translation Service Host

- d. Click Restart to restart the service.
- e. After the service has stopped and restarted, close the Services window.





Add CamBots in DashBoard

The PT Head Control plugin is available free of charge, as part of the DashBoard Control System.

On each robot control workstation, you must register (add) each PT head to DashBoard. You can then control them from DashBoard.

This section describes how to add a CamBot PT head to DashBoard. For complete information about setting up and using the DashBoard PT Head Control plugin, see the *User Manual for PT Head Control (8351DR-019)*. To download a PDF copy, go to <u>https://www.rossvideo.com/products-services/acquisition-production/robotic-camera-systems/studio-robotics/</u>, follow the **Downloads** link, expand the **Manuals** node, and select the manual.

To add a CamBot PT head in DashBoard:

- 1. On the robot control workstation, start DashBoard.
- 2. From the File menu, click New, and then click Other.

The **New** dialog box appears.

3. Expand the Robots node, click Ross PT Head, and then click Next.

The New Ross Robotics Connection dialog box appears. See Figure 12.

New Ross Robotics Connection				
Ross Robotics Connection This wizard allows you to create a connection to a Ross Robotics device.				
IP Address:	196.90.112.88			
<u>D</u> isplay Name:	Left CamBot 520PT			
<u>S</u> lot:	1 🔹			
Command Channel Port: 13002 ~				
Status Channel Port: 13003 ~				
< <u>B</u> ack	c <u>N</u> ext > <u>Finish</u> Cancel			

Figure 12 - The New Ross Robotics Connection dialog box (shown completed for the first CamBot PT head)

- 4. In the IP Address box, type the IP address of the CamBot Translation Server.
- 5. In the **Display Name** box, type the name of the PT head, as you want it to appear in DashBoard.
- 6. In the Slot box, select or type a slot number (1 or higher) to specify the order in which the PT head is to be listed in the DashBoard tree.

Tip: If you do not specify a slot number, or if you specify one that is already in use, the PT head is assigned the lowest available slot number.





- 7. Set the Command Channel Port and the Status Channel Port as follows:
 - a. For the first CamBot head you listed in the <Robots> section of the CamBotTranslationServer.config file (Id="1"), the Command Channel Port is 13002 and the Status Channel Port is 13003.
 - a. For the second CamBot head listed (Id="2"), the Command Channel Port is 13004 and the Status Channel Port is 13005.
 - b. For subsequent CamBot heads, the port numbers increment accordingly (13006/13007, 13008/13009, etc).
- 8. Click Finish.

The CamBot PT head appears in the DashBoard tree, within the Ross Robotics node. See Figure 13.



Figure 13 - The Ross Robotics node of the DashBoard tree

9. To control the head you just added, expand the Ross Robotics > Slot node for the head, and then click Remote Control.

The PT Head Control interface appears.

