

Caption Assist

CA C3



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Safety Warnings and Instructions

WARNING! TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION! TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

POWER CORD NOTICE FOR INTERNATIONAL OPERATION - Please call Williams AV Customer Service at 800.328.6190 to order the appropriate power cord for the country of use.

Important Safety Instructions:

1. Read these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel.
14. The apparatus shall not be exposed to liquids.
15. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.
16. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
17. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
18. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Precautions:

1. Power – WARNING, BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. The unit is designed for use only with the line cord of the region in which it will be operated.
2. Voltage Label (Rear Panel) – A label located at the rear panel power connection indicates the power input for the unit.
3. Do Not Plug in the HDMI input, output, Comm 1, Comm 2, Ethernet, or USB connections while the power switch is switched to the ON position.
4. Do Not Touch any part of the Caption Assist with wet hands. Do not handle any part of system, including the power cord, when your hands are wet or damp. If water or any other liquid enters the Caption Assist or Caption Assist's location, take the device to qualified service personnel for inspection.
5. Place all components of the Caption Assist in a well ventilated location. Take special care to provide plenty of ventilation on all sides of the system components, especially when it is placed in a small location, such as a rack. If ventilation is blocked, the system may over heat and malfunction.
6. Do not expose the Caption Assist to direct sun light or heating units as the system's internal components temperature may rise and shorten the life of the components. Avoid damp and dusty places.
7. Care – From time to time you should wipe off the front and side panels and the cabinet with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel graphics.

Maintenance and Recycling Instructions



Help Williams AV protect the environment. Please take the time to dispose of your equipment properly.

Product Recycling:

Please do NOT dispose of your equipment in the household trash. Take the equipment to a electronics recycling center.

Servicing or attempting to service this device will void the warranty

Refer servicing to qualified personnel. Servicing is required when the system has been damaged in any way: if liquid has been spilled or objects have fallen into the unit, if the unit has been exposed to moisture, if the unit does not operate normally, or if the unit has been dropped.

Do not block any ventilation openings. Install in accordance with manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produces heat.

Use only attachments/accessories specified by the manufacturer.

Unplug the transmitter during lightning storms or when unused for long periods of time.

Be advised that different operating voltages require the use of different types of line cord and attachment plugs. Check the voltage in your area and use the correct type.

Use only the power supply provided by Williams AV. Other power supplies may have similar specifications, but may not be equivalent in emissions ratings, in-rush current, etc. Use of an unapproved power supply may leave the device partially or completely inoperable, and will void the warranty.

This apparatus has been designed with class-1 construction and must be connected to a main socket outlet with a protective ground connection (the third grounding prong).

Protect the power cord from being walked on or pinched, particularly at plugs, receptacles, and near the power jack on the transmitter.

The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device should remain readily operable.

Overview

Introduction

The Caption Assist (CA C3) is a professional, hardware-based live captioning system. During a video call or other live event, the Caption Assist puts real time captions on any video source. Many languages and dialects can be selected for captioning, and is a perfect fit for churches, classrooms and other presentations.

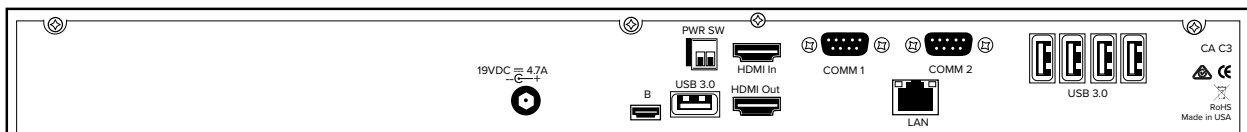
Network Connection Required

A network connection to the Caption Assist is required in order to receive translation data.

General Installation

The Back Panel

Most wired devices will connect via one of the ports on the back panel. There are numerous ports to connect to, including USB, HDMI, COMM ports and a Phoenix-Style connector.



Back Panel Diagram

Connecting the Video Source and Outputs

HDMI Connectors

To connect HDMI video:

HDMI Input into Caption Assist: Using HDMI video cable, connect the cable to the HDMI In port on the back panel of the Caption Assist.

HDMI Output from Caption Assist: Using HDMI video cable, connect the cable to the HDMI Out port on the back of the Caption Assist to HDMI In on a HDMI display.

Required Use of Multiple Devices

The output typically cannot be connected to the same device as the input. For example, laptops do not have an HDMI In port, but do have an HDMI Out port.

Displaying the stream or output into the same device as the input will cause video to show a video of itself, creating a visual echo.



A visual echo loop is a repeating, nested video feed.

This is not desired as the video will repeat itself within itself, like filming yourself in a mirror. Audio echo may also be introduced, depending on the configuration.

Connecting Devices

IMPORTANT: Be sure to power down the Caption Assist before connecting or disconnecting any controllers. The Caption Assist will automatically detect installed controllers upon turning the power on. If you change controllers or add a new controller, you need to turn power off, install the new controller(s), then turn the power on.

Connecting the Keyboard, Tablet or other USB Devices

Connect the device(s) to any USB port on the Caption Assist. The system supports up to 5 USB 3.0 devices and 1 USB B device.

Connecting the Phoenix Connector

Connect the wires from your power controller (or other device) to the Caption Assist's Phoenix-style connector (labeled on the back of the device as PWR SW). When the relay is thrown, the Caption Assist will power on or off, as a toggle.

Connecting a 3rd Party Controller - COMM Port Wiring Issues

Customers sometimes encounter issues with the wiring of controllers. The following information may be helpful in resolving any issues.

- Caption Assist's COMM ports sometimes use pin 9 to supply power to the RS-232 line drivers. Pin 9 was selected because its specification is seldom used. If you are connecting a device other than a line driver to a COMM port, the voltage may cause unexpected issues with the device.
- COMM 2 is set up as the default control port.
- COMM 1 and COMM 2 have jumpers for power on pin 9, and are set to OFF when shipped from the factory. If you require power from either or both of these COMM ports, please contact technical support.

Connecting USB Devices

A USB Mouse or Keyboard, Video Device, or other USB devices can be connected via the USB ports on the back panel.

Connecting Analog Audio Input

Analog audio input cannot be directly connected to the Caption Assist. However, an XLR to USB cable is included with the device to help convert the analog input connections to USB. You may be able to use other similar cables if a XLR connection does not work for your audio setup.

Power On

To power on the Caption Assist:

1. Plug the power cord into the back of the Caption Assist and then into any grounded outlet.
2. Plug the power cords from any video source(s), controller(s), and display(s) into any grounded outlet.
3. Turn on each of the connected units, and then press the power button on the front panel of the Caption Assist.

NOTE: In order for the Caption Assist to properly sync with the video signals, the sources should be turned on first.

After a moment, a Caption Assist splash screen will appear, followed by the initializing of the ports, and ending with a copyright message.

After the startup process, the default input source will be shown.

If this process is different for you, recheck your installation and power on again. Call Williams AV for support if it is still unsuccessful.

NOTE: To bypass port initialization, press ESC during startup.

Caption Assist Menu System

Overview

There are two Caption Assist menus. One is a series of icons that runs along the bottom of the screen with commands a presenter would use frequently, such as starting a session.

The other menu is a larger, main menu system mostly used for setup and configuration. This menu will need to be accessed to get your device connected to the network or calibrated properly.

Toolbar

The hamburger icon can toggle whether this menu is showing or not. Switching the video source between HDMI or USB, the information screen, and the start or stop button are available for quick access as well.



The Toolbar

Main Menu

The Main menu can be accessed by using a mouse connected to the USB ports on the Caption Assist to click the top center of the output display. No physical button is visible. Pressing the Print Screen button on a USB keyboard connected to the Caption Assist will also open the menu.

Click or use the arrow keys to navigate the menu system.



Main Menu

Menu Conventions

Once the menu system is displayed, you can make selections from it to navigate to the option(s) you wish to change. Each menu selection has the appearance of a rounded-corner button.

Not Selected: If a button is not selected, it has a black background.

Selected: When a button is selected, it changes to a blue background.

Hovering: As you move the selection arrow over a button (hovering), it will either

- Display blue behind the button text.
- Turn the text in the menu to white.

Submenus: A selection from the Main Menu causes a submenu to appear alongside it. A selection from the submenu sometimes displays a second submenu of choices based on the selection you make.

Outline Format: The entire menu system is an outline format that allows you to drill down to the specific option you wish to change. Whenever the Main Menu is visible, you can select directly from it to activate a different branch of submenus.

Exiting Menus

Exit a submenu by selecting any option in the Main Menu. Exit the menu system by selecting **Exit**.

System Information

Certain menu items are used to view and update information about your Caption Assist.

System Info

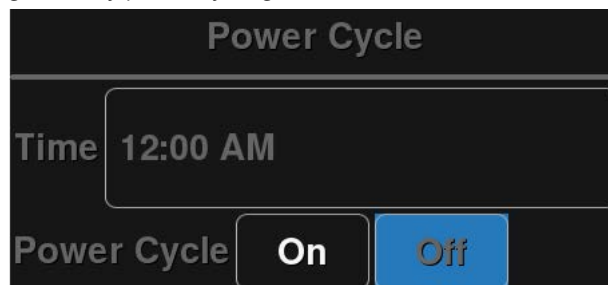
This selection presents a readout of relevant information concerning your unit. This information can be useful in troubleshooting, especially if you are contacting technical support.

1. Activate the menu system. The Main Menu appears.
2. Select **Display**. The Display menu appears.
3. Select **System Info**. A list of system information will be displayed.

NOTE: Your numbers will be different than those of the menu above. Please write down all numbers when contacting technical support.

Scheduling Restarts

The Caption Assist can be set to cycle the power at a set time of day. This will force the device to re-establish the connection with any controllers or screens connected to it. The time to power cycle can be set from this menu, as well as disabling or enabling the daily power cycling.



The Power Cycle Menu

Detecting and Assigning Devices

Devices connected to any ports will often be auto-detected by the Caption Assist. However, sometimes these devices will need to be manually added or need additional configuration.

Setting COMM Port Parameters

If you are assigning a port for communicating with another system, you must select either **Control Port** or **PVI to PVI** as your device type. The Caption Assist supports assigning only one port for each type.

Control Port: Choose this option if the Caption Assist is being used as an AV remote control command station, if it is being controlled remotely using RS-232 commands, or if it is being connected to a PC.

1. Select the appropriate device type in the Device Select menu for the port where you are connecting the other system. Where a question mark is usually found, you will instead see an arrow.

NOTE: Only one of the two COMM ports may be set to Control Port. Either COMM port may be set to Control Port, but only one at a time may be assigned as Control Port. If the device type you desire for connecting to other systems is unavailable, check to see if it is assigned to another port.

2. Activate the arrow next to the device type to set its communication parameters. The corresponding submenu appears. Select the desired baud rate, parity, and stop bits.

NOTE: Factory settings are 9600 baud, no parity, 1 stop bit. Data bits, which cannot be manually set, are 8 data bits.

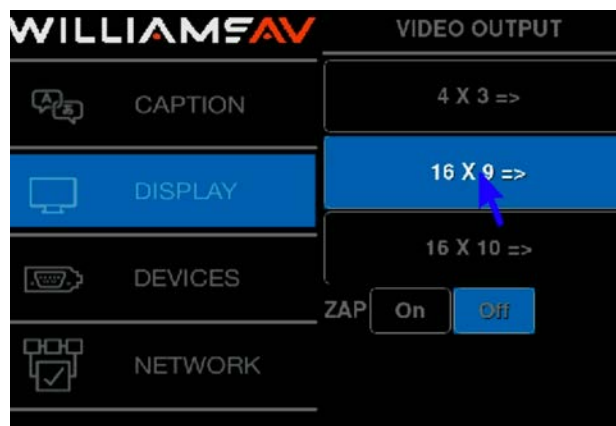
3. Exit the menu system and cycle the power on the Caption Assist. The Caption Assist implements the new settings.

Preparing Video Sources and Outputs

Setting Video Output

The Caption Assist gives you a wide range of video parameters for fine tuning your video output.

1. Activate the menu system. The Main Menu appears.
2. Select **Display**. The Display menu appears.
3. Select **Video Output**. The Video Output dialog appears next to the Main Menu.
4. Select an **output ratio**. The associated Video Output Aspect Formats dialog appears next to the Main Menu.



Video Output Formats Dialog for 16 x 9 Ratio

5. Select a **format**. The Caption Assist will immediately switch to the output format selected.
6. Exit the menu system.

Note: The Zap icon is a special feature and can be enabled if desired.

EDID

This dialog allows you to set the Caption Assist's preferred EDID resolution which tells the video source what resolution to send.

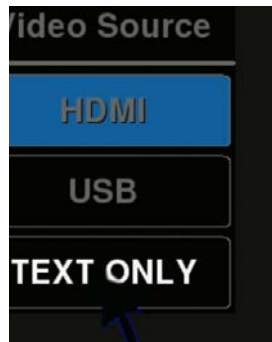
1. Activate the menu system. The Main Menu appears.
2. Select **Display**. The Display menu appears.
3. Select **EDID**. The EDID menu appears.
4. Turn **Force On or Off**. When off, the Caption Assist will not try to set the incoming source resolution. When on, select your desired resolution and the Caption Assist will force your device to output the set resolution.
5. Select an **EDID format**. The associated EDID Format submenu appears.
6. Set Output to Int (for Internal) to broadcast in 1080p video. If the Caption Assist cannot send a 1080p signal, it will send a 1024 x 768 resolution video instead. Set Output to Ext (For External) to use the optimal resolution for connected, external devices.
7. Select a resolution.
8. Exit the menu system.

Video Source Options

The Video Source menu allows you to select between your current Source Video or the Chalkboard background.

From the Touch Screen:

1. Activate the menu system. The Main Menu appears.
2. Select **Display**. The Display menu appears.
3. Select **Video Source**.

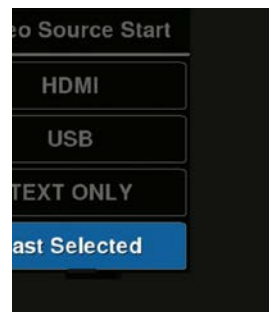


Video Source Menu

4. Choose from your desired video source.
5. Exit the menu system.

Default Video Source

Each time the Caption Assist starts, a specific video source can be selected as the default source to show. If the video source changes often, the last selected source used may be the desired default. These options are selected via the Video Source Start menu.



Video Source Start Menu

Networking

There are various networking capabilities built into the Caption Assist, such as the ability to stream or update.

Network Setup

1. Activate the menu system. The Main Menu appears. Select the **Network** option. The Network Menu appears.
2. Select **Network Setup**.



Example of Network Setup menu

The Network Setup menu appears. This dialog prepares the Caption Assist for communicating on your network.

3. Select DHCP or STATIC.
 - If **DHCP** is selected, IP Address, Netmask, Gateway and Nameserver are assigned automatically.
 - If **STATIC** is selected, you must make entries for IP Address, Netmask, Gateway and Nameserver. (*This is the default setting.*)

Consult with your IT administrator if you need help with these entries.

4. Select **Apply Settings** to finish the network configuration.
5. Exit the menu system.

Configure Windows Share (SMB) Settings

Windows Share can only be used for providing firmware updates. The setup dialog requires a Server and Share name. If the Share is password protected, you will need the username and password. Make sure your firewall does not block access to your SMB share.

The following steps are required to allow the Caption Assist to communicate with SMB share.

1. Activate the menu system. The Main Menu appears.
2. Select the **Network** option. The Network menu appears.

3. Select the **Windows Share** option.



Example of Windows Share menu

4. Enter the **Server name** where your share is located. Check with your IT administrator if you do not know the name.
5. Enter the **Share name**. This is the name assigned to the location on the server. Check with your IT administrator if you do not know the name.
6. Enter the **Username and Password**, if any. Check with your IT administrator if you do not know this information.
7. Select the **Connect Share** button to connect the Caption Assist to the Windows Share. The Caption Assist will indicate if it is able to connect to your Share. If it fails, check your settings.
8. Exit this dialog by selecting Previous Menu.

Remote Servers

Remote server locations can be used to update the system. Once on the menu, enter the IP address the remote server.



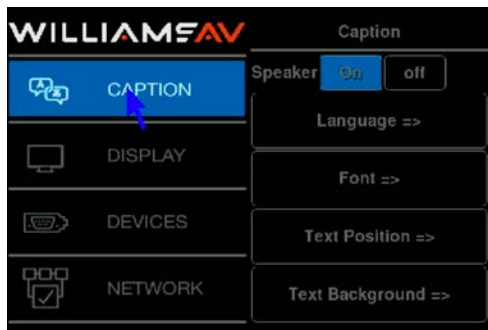
Remote Server Menu

Caption Appearance and Settings

The appearance of the captions can be edited to make them as legible as possible. The caption language and speaker settings can also be set from this menu.

Speaker Settings

The Speaker setting controls whether the captions are displayed or not. It can be turned on or off directly on the caption menu.



Main Caption Menu

Language Settings

The language and dialect of the audio that is being captioned must be selected. Selecting the correct dialect is important. For example, English in South Africa sounds drastically different from English in Canada. Not all languages have dialects, however.

In the Language Selection menu, find the language first and then look at the two character code next to the language. Each letter will be in a small box. These boxed letters indicate the dialect. For a full lists of languages and dialect codes, see “Language Selection Table” on page 22.



Language Selection Menu

Setting Caption Appearance

The caption appearance can be adjusted using several features to be as clear as possible on the background of your video content.



Font Menu

Font Size

From the font menu, the size of the font can be set.

Font Color

Select Color from the font menu to choose a font color. This is the color of the text on the screen.

Text Position

The text position menu lets you set the location of the text on the screen.

Use the **Speaker Text** option to set whether the text appears at the top of the screen or at the bottom.

Use the **Alignment** option to set whether the text appears against the left or right sides of the screen, or in the center.



Text Position Menu

Background Transparency

The background of the text can be transparent (completely clear), translucent (see-through color) or opaque (a solid color).



Transparency Menu

Background Color

The background color can be set, but will not appear if the background is set to be transparent.

Devices Menu

Power Cycle

Devices are detected by the Caption Assist on start up. To for the Caption Assist to restart and detect any newly connected devices, select the Power Cycle option.

Selecting a USB Microphone

Multiple USB microphones can be connected to the Caption Assist, but only one may be used at a time. The Microphone's menu will let you select from the connected microphones.



The Devices Menu

Updating the Caption Assist

The Caption Assist firmware can be updated through USB or via a remote server update to provide new features, improve functionality or bug fixes.

NOTE: The Caption Assist must be connected to the internet to update, even when updating from a USB device.

Before activating the Update command, the update file must be copied into a remote server directory or on the flash drive location called **BIIUPG**. Create this directory directly under the main (Root) directory. It cannot be inside any other folder. Ensure there is an internet connection to the Caption Assist before starting the update.

1. Before activating the Update command, the update file must be copied into a directory on a USB flash drive or in remote server location named BIIUPG. You must **create the BIIUPG directory in the root directory**.
2. Activate the menu system. The Main Menu appears.
3. Select **Update**. The Update dialog appears.

4. If updating via USB, select **USB**. The screen will display various information as the update takes place. Then it will request that you cycle the power.



The Update Menu

5. If updating via Windows Share, enter the Windows Share information. The update file will be taken from the provided location.
6. If updating via remote server, tap the Remote Server menu. The update file will be taken from the remote server location.

NOTE: Do not shut off the device, remove the update file, or restrict access to the update file until the update is finished.

7. Turn the Caption Assist off, then turn it back on. The system will start up using the new firmware.

Captioning Sessions

Purchasing Hours

Hours can be purchased in groups of 8-hours, but the hours do not need to be used continuously. For instance, you can run one 4-hour session on a Monday, a 2-hour session on Thursday, and use the remaining 2-hours the next week.

Multiple groups of hours can be purchased at one time, if desired. If you have a 4-hour meeting every day, you can purchase three 8-hour groups at once for a total of 24 hours of live captioning. Hours do not expire.

To purchase hours, scan the QR code on the Caption Assist's output display with the app. Once connected, tap the shopping cart icon in the bottom right corner of the screen. Pricing is subject to change.

Starting a Session

Sessions may be started from the Caption Assist App, or by using a USB mouse connected to the Caption Assist.

If using a mouse:

On the toolbar or Caption Assist App, click the green START button with the provided mouse.

If using the app:

Scan the QR code on the output display to connect to your Caption Assist device. Once connected, tap on the START button.

Stopping a Session

Tap STOP on the toolbar or Caption Assist app to pause the session. When stopped, you can switch languages, take a break, or finish your session.

Sessions will automatically timeout if there has been 15 minutes of silence.

Troubleshooting Guide

The following table describes common problems and their solutions. If, after referring to this table, a problem still exists, call Williams AV and ask for technical assistance.

There are no user serviceable parts in the Caption Assist. Do not open the cabinet.

The Caption Assist can be soft booted/power cycled by pressing CTRL + ALT + DEL. Factory default settings are restored by pressing CTRL + ALT + END.

WARNING: executing a factory reset will erase all user settings including calibrations, COMM port settings, etc.

SYMPTOMS	POSSIBLE SOLUTIONS
The green indicator light on the front of the Caption Assist does not light up.	Check that the Caption Assist is plugged into a live outlet.
Monitor does not light up.	Check that the monitor is plugged into a live outlet. Check that the monitor is switched on. Check that the monitor brightness and contrast controls are properly adjusted.
HDMI audio is missing.	Reboot the Caption Assist using CTRL + ALT + DEL.
Monitor lights up but does not display a picture.	Check that the video source and Caption Assist are plugged into a live outlet. Check that the video source and Caption Assist are both switched on. Check that the proper cables are connected to the proper connectors on the video source, the Caption Assist, and the monitor. Some sources and monitors have multiple output and input connectors. Consult your video or computer manuals for correct connection information. Bypass the Caption Assist by connecting the monitor directly to the video source. If the video image still does not appear, have the video source and monitor checked.
Monitor automatically adjusts brightness so that video image is dull while markers are bright.	Monitor is automatically adjusting for the overall brightness level of the markers and the video image. On the Caption Assist, activate the Change Brightness command. Tone down the brightness level of the markers. The monitor will adjust accordingly.
Monitor displays a scrambled picture.	Check the horizontal hold control on the video monitor for proper adjustment. Check that the Dual Voltage Switch (110V/220V) located on the back panel of the Caption Assist is properly set. Monitor is not compatible with video source. Use compatible system. Check to be sure that the video in and out connectors on the Caption Assist are secure.

SYMPTOMS	POSSIBLE SOLUTIONS
Mouse will not operate properly.	Refer to the specific section in this manual that describes installation of your controller.
PC display scrolls.	<p>You may need to adjust your computer's Display or Monitor Type setting for a video scan rate compatible with the Caption Assist.</p> <p>For display utilities that permit the user to change the horizontal scan rate or vertical refresh rate: Select a resolution, maximum horizontal scan rate, and a maximum vertical scan rate that are compatible with the computer hardware, the Caption Assist, and the display monitor/projector. You will need to restart the computer before changes can be activated.</p> <p>For Windows 7/8/10 Display Settings that permit a change in monitor type: If an independent display utility or video driver was not installed, you may want to change the display type by using the settings commands in Windows 7/8/10.</p> <ol style="list-style-type: none">1. Go to the Display settings for your system.2. In the Display window find the Screen Resolution listing.3. Select the desired resolution.4. With some operating systems you may need to click Apply for the change in resolution to take effect. Some operating systems update automatically.

RS-232 Commands

Use Port 23

COMMAND DESCRIPTION	OPTIONS [STATE: TELNET CODE]	MENU DISPLAY (SUGGESTION)
Translation Server	stop: TRAS0 start: TRAS1	Group: Title: Translation Server Option: Stop/Start
Translation text(service)	on: TRAX0 off: TRAX1	Group: Title: Translation Text: Option: On/Off
Speaker text position	top: TRADP0 bottom: TRADP1	Group: Text Position Title: Speaker Text Position Option: Top/Bottom
Translation text speaker	on: TRAD0 off: TRAD1	Group: Title: Speaker Text: Option: On/Off
Translation text position	top: TRAP0 bottom: TRAP1	Group: Text Position Title: Position Option: Top/Bottom
Translation text alignment	left: TRAA0 center: TRAA1 right: TRAA2	Group: Text Position Title: Text Alignment Option: left/center/right
Text background transparency	Transparent: TRAF0 Translucent: TRAF1 Opaque: TRAF2	Group: Text Background Title: Transparency Option: Transparent/Translucent/Opaque
Text background color	black: TRAFB0 white: TRAFB1 blue: TRAFB2	Group: Text Background Title: Color Option: Black/White/Blue
Font size	24: TRAFS0 32: TRAFS1 40: TRAFS2	Group: Font Title: Size Options: 24/32/40
Font color	white: TRAFF0 black: TRAFF1 yellow: TRAFF2	Group: Font Title: Color Options: White/Black/Yellow
Video Source	HDMI: MH01 USB: MH02 INFORMATION: MS	Group: Video Title: Video Source Options: HDMI/USB/INFORMATION
Translation Input Text	Language: TRANLI## * (see table and note)	Group: Title:Language Option: Arabic(Israel)....

* Where ## is the Numeric language code. For example, TRANLI43 for Dutch.

A leading zero is required for single digit numbers. For example, TRNASLI05 for Canadian English.

Language Selection Table

Language	Input Language Dialect Code	Numeric Code
Arabic (Israel)	LANG_AR_IL	56
Arabic (Jordan)	LANG_AR_JO	57
Arabic (United Arab Emirates)	LANG_AR_AE	58
Arabic (Bahrain)	LANG_AR_BH	59
Arabic (Algeria)	LANG_AR_DZ	60
Arabic (Saudi Arabia)	LANG_AR_SA	61
Arabic (Iraq)	LANG_AR_IQ	62
Arabic (Kuwait)	LANG_AR_KW	63
Arabic (Morocco)	LANG_AR_MA	64
Arabic (Tunisia)	LANG_AR_TN	65
Arabic (Oman)	LANG_AR_OM	66
Arabic (State of Palestine)	LANG_AR_PS	67
Arabic (Qatar)	LANG_AR_QA	68
Arabic (Lebanon)	LANG_AR_LB	69
Arabic (Egypt)	LANG_AR_EG	70
Chinese, Mandarin (Simplified, China)	LANG_ZH	74
Czech (Czech Republic)	LANG_CS_CZ	1
Danish (Denmark)	LANG_DA_DK	2
Dutch (Netherlands)	LANG_NL_NL	43
English (Australia)	LANG_EN_AU	4
English (Canada)	LANG_EN_CA	5
English (Ghana)	LANG_EN_GH	6
English (United Kingdom)	LANG_EN_GB	7
English (India)	LANG_EN_IN	8
English (Ireland)	LANG_EN_IE	9
English (Kenya)	LANG_EN_KE	10
English (New Zealand)	LANG_EN_NZ	11
English (Nigeria)	LANG_EN_NG	12
English (Philippines)	LANG_EN_PH	13
English (Singapore)	LANG_EN_SG	14
English (South Africa)	LANG_EN_ZA	15
English (Tanzania)	LANG_EN_TZ	16
English (United States)	LANG_EN_US	17
Filipino (Philippines)	LANG_FIL_PH	38
Finnish (Finland)	LANG_FI_FI	49
French (Canada)	LANG_FR_CA	39
French (France)	LANG_FR_FR	40

Language	Input Language Dialect Code	Numeric Code
German (Germany)	LANG_DE_DE	3
Greek (Greece)	LANG_EL_GR	53
Hindi (India)	LANG_HI_IN	71
Hungarian (Hungary)	LANG_HU_HU	42
Indonesian (Indonesia)	LANG_ID_ID	0
Italian (Italy)	LANG_IT_IT	41
Japanese (Japan)	LANG_JA_JP	73
Korean (South Korea)	LANG_KO_KR	72
Norwegian Bokmål (Norway)	LANG_NB_NO	44
Polish (Poland)	LANG_PL_PL	45
Portuguese (Brazil)	LANG_PT_BR	46
Portuguese (Portugal)	LANG_PT_PT	47
Russian (Russia)	LANG_RU_RU	54
Spanish (Argentina)	LANG_ES_AR	18
Spanish (Bolivia)	LANG_ES_BO	19
Spanish (Chile)	LANG_ES_CL	20
Spanish (Colombia)	LANG_ES_CO	21
Spanish (Costa Rica)	LANG_ES_CR	22
Spanish (Ecuador)	LANG_ES_EC	23
Spanish (El Salvador)	LANG_ES_SV	24
Spanish (Spain)	LANG_ES_ES	25
Spanish (United States)	LANG_ES_US	26
Spanish (Guatemala)	LANG_ES_GT	27
Spanish (Honduras)	LANG_ES_HN	28
Spanish (Mexico)	LANG_ES_MX	29
Spanish (Nicaragua)	LANG_ES_NI	30
Spanish (Panama)	LANG_ES_PA	31
Spanish (Paraguay)	LANG_ES_PY	32
Spanish (Peru)	LANG_ES_PE	33
Spanish (Puerto Rico)	LANG_ES_PR	34
Spanish (Dominican Republic)	LANG_ES_DO	35
Spanish (Uruguay)	LANG_ES_UY	36
Spanish (Venezuela)	LANG_ES_VE	37
Slovak (Slovakia)	LANG_SK_SK	48
Swedish (Sweden)	LANG_SV_SE	50
Turkish (Turkey)	LANG_TR_TR	52
Ukrainian (Ukraine)	LANG_UK_UA	55
Vietnamese (Vietnam)	LANG_VI_VN	51

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This file is part of the lwIP TCP/IP stack.

Author: Adam Dunkels <adam@sics.se>

Specifications

Caption Assist

Video Input	HDMI up to 3840 x 2160 @ 24/25/30 fps
Video Output	HDMI up to 3840 x 2160 @ 60 fps
Power Supply	TFP 060 – 100-240VAC 50/60Hz Input
Power Source	19VDC, 4.7A, center positive
Power Indicator	Green LED
Remote Power	2-pole Phoenix-style connector (Euroblock)
Network	LAN port for printing and saving images and third-party remote control
USB	5 USB 3.0 ports, plus one USB B-Micro port
Operating Temperature	Approximately 32° F to 122° F (0° C to 50° C)
Comm Ports	2
Dimensions	1 RU - 19" (W) x 1.75" (H) x 8.2" (D) (48.26 cm x 4.45 cm x 20.8 cm)
Weight	5 lbs. (2.3 kg)
Warranty	Two (2) year, parts and labor
Approvals	CE, FCC, Industry Canada, WEEE, RoHS, CB Scheme, RCM, PSE

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