



CBOX HARDWARE USER GUIDE

Version 2.0.4

Updated: 4/26/2016

RECORD OF DOCUMENT VERSION

Version Number	Date	Section(s)	Page(s)	Summary of Changes
2.0.0	8/4/2015			Initial Version
2.0.1	11/15/2015		8, 17, 26, 35	Revision to Audio Inputs
2.0.2	3/9/2016		7	Added (2) DVI to HDMI adapters
2.0.3	4/18/2016		27-34	Added Cbox S3 Plus section
2.0.4	4/26/2016		11-13	Enhanced Technical AV specifications

TABLE OF CONTENTS

RECORD OF DOCUMENT VERSION	3
TABLE OF CONTENTS	4
ABOUT THIS GUIDE	7
COPYRIGHT	7
DISCLAIMER	7
TRADEMARKS	7
WHAT IS INCLUDED	8
HARDWARE SPECIFICATIONS	9
TECHNICAL SPECIFICATIONS	11
AUDIO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION	11
AUDIO INPUTS AND OUTPUTS - PUSH PIN VERSION	12
VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE AND PUSH PIN VERSION	13
SAFETY INSTRUCTIONS	14
SYSTEM POWER	14
ELECTROSTATIC DISCHARGE (ESD) AND ESD PROTECTION	14
SAFETY NOTICE AND WARNINGS	14
FCC NOTICE	14
CE MARK WARNING	15
ENVIRONMENTAL WARNING	15
INSTALLATION SAFETY NOTES	15
GETTING STARTED WITH THE APPLIANCE	16
CBOX P3	17
2.1. RECORD OF CBOX P3 HARDWARE REVISIONS	18
2.2. RIGHT PANEL	18
2.3. LEFT PANEL	19
2.4. TOUCHSCREEN MONITOR	19
2.5. POWERING ON THE SYSTEM	20
2.6. AUDIO/VIDEO INPUTS AND OUTPUTS	21
2.7. AUDIO OUT FOR ROOM SOUND SYSTEM	21
2.8. DVI / HDMI / RGB INPUTS	22
2.9. SD / HD / 3G-SDI INPUTS	22
2.10. VGA / HDMI DISPLAY OUTPUTS	23
2.11. AUDIO MONITOR OUTPUT	23
2.12. MOUSE AND KEYBOARD	24
2.13. GENERAL-PURPOSE INPUTS AND OUTPUTS	24

2.14. USING A PANASONIC PTZ CAMERA	25
<u>CBOX S3 PLUS</u>	<u>26</u>
3.1. RECORD OF CBOX S3 PLUS HARDWARE REVISIONS	27
3.2. FRONT PANEL	28
3.3. BACK PANEL - BREAKOUT CABLE VERSION	28
3.4. BACK PANEL - PUSH PIN VERSION	29
3.5. AUDIO / VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION	29
3.6. AUDIO OUT FOR ROOM SOUND SYSTEM - BREAKOUT CABLE VERSION	30
3.7. AUDIO / VIDEO INPUTS AND OUTPUTS - PUSH PIN VERSION	30
3.8. AUDIO OUT FOR ROOM SOUND SYSTEM - PUSH PIN VERSION	31
3.9. DVI / HDMI / RGB INPUTS	31
3.10. SD / HD / 3G-SDI INPUTS	32
3.11. DVI AND HDMI VIDEO OUTPUTS	32
3.12. AUDIO MONITOR OUTPUT	32
3.13. MOUSE AND KEYBOARD	33
3.14. GENERAL-PURPOSE INPUTS AND OUTPUTS	33
3.15. USING A PANASONIC PTZ CAMERA	33
<u>CBOX S3</u>	<u>34</u>
4.1. RECORD OF CBOX S3 HARDWARE REVISIONS	35
4.2. FRONT PANEL	36
4.3. BACK PANEL - BREAKOUT CABLE VERSION	36
4.4. BACK PANEL - PUSH PIN VERSION	36
4.5. AUDIO / VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION	37
4.6. AUDIO OUT FOR ROOM SOUND SYSTEM - BREAKOUT CABLE VERSION	37
4.7. AUDIO / VIDEO INPUTS AND OUTPUTS - PUSH PIN VERSION	38
4.8. AUDIO OUT FOR ROOM SOUND SYSTEM - PUSH PIN VERSION	38
4.9. DVI / HDMI / RGB INPUTS	39
4.10. SD / HD / 3G-SDI INPUTS	39
4.11. MINI DISPLAYPORT VIDEO OUTPUTS	40
4.12. AUDIO MONITOR OUTPUT	40
4.13. MOUSE AND KEYBOARD	40
4.14. GENERAL-PURPOSE INPUTS AND OUTPUTS	41
4.15. USING A PANASONIC PTZ CAMERA	41
<u>CBOX L3</u>	<u>43</u>
5.1. RECORD OF CBOX L3 HARDWARE REVISIONS	44
5.2. FRONT PANEL	45
5.3. BACK PANEL - BREAKOUT CABLE VERSION	45
5.4. BACK PANEL - PUSH PIN VERSION	45
5.5. AUDIO / VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION	46
5.6. AUDIO OUT FOR ROOM SOUND SYSTEM - BREAKOUT CABLE VERSION	46
5.7. AUDIO / VIDEO INPUTS AND OUTPUTS - PUSH PIN VERSION	47
5.8. AUDIO OUT FOR ROOM SOUND SYSTEM - PUSH PIN VERSION	47
5.9. DVI / HDMI / RGB INPUTS	48
5.10. SD / HD / 3G-SDI INPUTS	48
5.11. MINI DISPLAYPORT VIDEO OUTPUTS	49
5.12. AUDIO MONITOR OUTPUT	49

5.13. MOUSE AND KEYBOARD	49
5.14. GENERAL-PURPOSE INPUTS AND OUTPUTS	50
5.15. USING A PANASONIC PTZ CAMERA	50
APPENDIX	51
CBOX L3/S3 RACK MOUNT INSTRUCTIONS: SINGLE SYSTEM	52
CBOX L3/S3 RACK MOUNT INSTRUCTIONS: SYSTEM + SYSTEM	54
CBOX S3 PLUS RACK MOUNT INSTRUCTIONS: SINGLE SYSTEM	59
CBOX S3 PLUS RACK MOUNT INSTRUCTIONS: SYSTEM + SYSTEM	61

ABOUT THIS GUIDE

This User Guide will guide you through the basic hardware setup (such as safety and hardware installation instructions) for your Cbox appliance.

Please refer to the specific section for your Cbox model such as Cbox P3, Cbox S3 Plus, Cbox S3, and Cbox L3. If you are not sure of your Cbox model, it may be found on a sticker on the side or bottom of your Cbox appliance:

- SYS-CBOX-P3 for Cbox P3 (Breakout Cable version)
- SYS-CBOX-S3P-PP for Cbox S3 Plus (Pushpin version)
- SYS-CBOX-S3P-BC for Cbox S3 Plus (Breakout Cable version)
- SYS-CBOX-S3-PP for Cbox S3 (Pushpin version)
- SYS-CBOX-S3-BC for Cbox S3 (Breakout Cable version)
- SYS-CBOX-L3-PP for Cbox L3 (Pushpin version)
- SYS-CBOX-L3-BC for Cbox L3 (Breakout Cable version)

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Winnov Cbox is a registered trademark of Winnov.

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WHAT IS INCLUDED

Ensure that your Cbox shipment contains the following devices, cables and software licenses:











	Cbox P3 (Breakout Cable)	Cbox S3 Plus (Pushpin)	Cbox S3 Plus (Breakout Cable)	Cbox S3 (Pushpin)	Cbox S3 (Breakout Cable)	Cbox L3 (Pushpin)	Cbox L3 (Breakout Cable)
Appliance and AC Power Cord 	✓	✓	✓	✗	✗	✗	✗
19V Power Adapter with Multi-country Plugs 	✗	✗	✗	✓	✓	✓	✓
USB Mouse and Keyboard 	✓	✓	✓	✗	✗	✗	✗
A/V Breakout Cable 	✓	✗	✓	✗	✓	✗	✓
DMS-59 Adapter Cable 	✓	✓	✓	✓	✓	✓	✓
(2) DVI to HDMI Adapter 	✓	✓	✓	✓	✓	✓	✓
Mini DisplayPort to HDMI Adapter Cable 	✗	✗	✗	✓	✓	✓	✓
MS Windows 8.1 Software License 	✓	✓	✓	✓	✓	✓	✓
Rack Mount Kit (one system) 	✗	[Optional]	[Optional]	[Optional]	[Optional]	[Optional]	[Optional]
Rack Mount Kit (two systems) 	✗	[Optional]	[Optional]	[Optional]	[Optional]	[Optional]	[Optional]

Figure 1 – Contents of the Box

HARDWARE SPECIFICATIONS

Name	Cbox P3 (Breakout Cable version)	Cbox S3 Plus (Push Pin version)	Cbox S3 Plus (Breakout Cable version)	Cbox S3 (Push Pin version)	Cbox S3 (Breakout Cable version)
Video Input	All 5 HD + 1 Analog 3 SD / HD / 3G-SDI 2 DVI / HDMI / RGB via DMS-59 adapter cable 1 Analog Video (Composite)	All 5 HD + 1 Analog 3 SD / HD / 3G-SDI 2 DVI / HDMI / RGB via DMS-59 adapter cable 1 Analog Video (Composite)	All 5 HD + 1 Analog 3 SD / HD / 3G-SDI 2 DVI / HDMI / RGB via DMS-59 adapter cable 1 Analog Video (Composite)	Any 3 (upgradeable to 5) of 5 HD + 1 Analog 3 SD / HD / 3G-SDI 2 DVI / HDMI / RGB via DMS59 adapter cable 1 Analog Video (Composite)	Any 3 (upgradeable to 5) of 5 HD + 1 Analog 3 SD / HD / 3G-SDI 2 DVI / HDMI / RGB via DMS59 adapter cable 1 Analog Video (Composite)
Video Output	1 HDMI	1 DVI-D 1 HDMI	1 DVI-D 1 HDMI	2 Mini DisplayPort	2 Mini DisplayPort
Audio Input	Any 7 Analog + Embedded 2 balanced mono Mic / Line via XLR 1 Stereo balanced via XLR 4 Stereo unbalanced via RCA connectors 6 SDI embedded audio channels 2 HDMI embedded audio channels	All 5 Analog + Embedded 2 Stereo balanced 3 Stereo unbalanced via 1/8" TRS jacks 6 SDI embedded audio channels 2 HDMI embedded audio channels	Any 7 Analog + Embedded 2 balanced mono Mic / Line via XLR 1 Stereo balanced via XLR 4 Stereo unbalanced via RCA connectors 6 SDI embedded audio channels 2 HDMI embedded audio channels	All 5 Analog + Embedded 2 Stereo balanced 3 Stereo unbalanced via 1/8" TRS jacks 6 SDI embedded audio channels 2 HDMI embedded audio channels	Any 7 Analog + Embedded 2 balanced mono Mic / Line via XLR 1 Stereo balanced via XLR 4 Stereo unbalanced via RCA connectors 6 SDI embedded audio channels 2 HDMI embedded audio channels
Audio Output	1 Stereo balanced via XLR 1 Headphone 1 Headset	1 Stereo balanced via terminal block 1 Headphone 1 Headset	1 Stereo balanced via XLR 1 Headphone 1 Headset	1 Stereo balanced via terminal block 1 Headphone 1 Headset	1 Stereo balanced via XLR 1 Headphone 1 Headset
Connectivity	2 USB 2.0 ports 6 USB 3.0 ports PS/2 port	2 USB 2.0 ports 8 USB 3.0 ports PS/2 port	2 USB 2.0 ports 8 USB 3.0 ports PS/2 port	3 USB 3.0 ports	3 USB 3.0 ports
Storage	500 GB	500 GB	500 GB	120 GB	120 GB
Optical Drive	22X DVD/CD R/RW	-	-	-	-
Dimensions	W x L x H 5.55" x 16.77" x 12.40" 140mm x 425mm x 315mm	W x L x H 8.56" x 14.35" x 3.5" 217mm x 362mm x 89mm	W x L x H 8.56" x 14.35" x 3.5" 217mm x 362mm x 89mm	W x L x H 8.66" x 6.10" x 1.73" 220mm x 155mm x 44mm	W x L x H 8.66" x 6.10" x 1.73" 220mm x 155mm x 44mm
Weight	15 lbs	10 lbs	10 lbs	3 lbs	3 lbs
Power Requirements	100-240V AC	100-240V AC	100-240V AC	19V DC	19V DC
Power Consumption	90W	110W	110W	30W	30W

Name	Cbox L3 (Push Pin version)	Cbox L3 (Breakout Cable version)
Video Input	Any 2 (upgradeable to 3) of 5 HD + 1 Analog 3 SD / HD / 3G-SDI 2 DVI / HDMI / RGB via DMS59 adapter cable 1 Analog Video (Composite)	Any 2 (upgradeable to 3) of 5 HD + 1 Analog 3 SD / HD / 3G-SDI 2 DVI / HDMI / RGB via DMS59 adapter cable 1 Analog Video (Composite)
Video Output	2 Mini DisplayPort	2 Mini DisplayPort
Audio Input	All 5 Analog + Embedded 2 Stereo balanced 3 Stereo unbalanced via 1/8" TRS jacks 6 SDI embedded audio channels 2 HDMI embedded audio channels	Any 2 (upgradeable to 3) Analog + Embedded 2 balanced mono Mic / Line via XLR 1 Stereo balanced via XLR 4 Stereo unbalanced via RCA connectors 6 SDI embedded audio channels 2 HDMI embedded audio channels
Audio Output	1 Stereo balanced via terminal block 1 Headphone 1 Headset	1 Stereo balanced via XLR 1 Headphone 1 Headset
Connectivity	3 USB 3.0 ports	3 USB 3.0 ports
Storage	120 GB	120 GB
Optical Drive	-	-
Dimensions	W x L x H 8.66" x 6.10" x 1.73" 220mm x 155mm x 44mm	W x L x H 8.66" x 6.10" x 1.73" 220mm x 155mm x 44mm
Weight	3 lbs	3 lbs
Power Requirements	19V DC	19V DC
Power Consumption	30W	30W

Figure 2 – Hardware Specifications

TECHNICAL SPECIFICATIONS

AUDIO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION

This table outlines technical audio specifications for the **breakout cable version** of the following Cbox models:

Model	Part Number
Cbox P3	SYS-CBOX-P3
Cbox S3 Plus	SYS-CBOX-S3P-BC
Cbox S3	SYS-CBOX-S3-BC
Cbox L3	SYS-CBOX-L3-BC

Name	Input Type	Connector	Max Input Level	Gain Range	Phantom Power	Input Impedance (Typical)	Stream Type
Audio IN 1	Mono, Balanced	XLR Female	-5.7 dBu -7.8 dBV	-2.5 dB to +49.5 dB	Selectable +48V or Off	2K Ohms	Mono signal replicated on L/R channels
Audio IN 2							
Audio IN 3L	Stereo, Balanced	XLR Female	-5.7 dBu -7.8 dBV	-2.5 dB to +49.5 dB	Selectable +48V or Off	2K Ohms	Stereo signal Left Channel
Audio IN 3R							Stereo signal Right Channel
Audio 4	Stereo, Unbalanced	RCA	4.9 dBu 2.7 dBV	-25 dB to +12 dB	No	10K Ohms	Stereo
Audio 5							
Audio 6							
Audio 7							
Audio Out L	Stereo, Balanced	XLR Male	9.5 dBu 7.3 dBV	-77 dB to +9 dB	-	-	Stereo signal Left Channel
Audio Out R							Stereo signal Right Channel
Phones	Stereo Headphone Output	1/8" TRS	3.5 dBu 1.3 dBV	-77 dB to +9 dB	-	-	Stereo

Figure 3 – Technical Audio Specifications (Breakout Cable version)

AUDIO INPUTS AND OUTPUTS - PUSH PIN VERSION

This table outlines technical audio specifications for the **push pin version** of the following Cbox models:

Model	Part Number
Cbox S3 Plus	SYS-CBOX-S3P-PP
Cbox S3	SYS-CBOX-S3-PP
Cbox L3	SYS-CBOX-L3-PP

Name	Input Type	Connector	Max Input Level	Gain Range	Phantom Power	Input Impedance (Typical)	Stream Type
Audio IN 1L	Stereo Balanced	Push-In Spring Connection	-5.7 dBu -7.8 dBV	-2.5 dB to +49.5 dB	Selectable +48V or Off	2K Ohms	Stereo signal Left Channel
Audio IN 1R							Stereo signal Right Channel
Audio IN 2L	Stereo Balanced	Push-In Spring Connection	-5.7 dBu -7.8 dBV	-2.5 dB to +49.5 dB	Selectable +48V or Off	2K Ohms	Stereo signal Left Channel
Audio IN 2R							Stereo signal Right Channel
Audio 3	Stereo, Unbalanced	1/8" TRS	4.9 dBu 2.7 dBV	-25 dB to +12 dB	No	10K Ohms	Stereo
Audio 4							
Audio 5							
Audio Out L	Stereo, Balanced	Push-In Spring Connection	9.5 dBu 7.3 dBV	-77 dB to +9 dB	-	-	Stereo signal Left Channel
Audio Out R							Stereo signal Right Channel
Phones	Stereo Headphone Output	1/8" TRS	3.5 dBu 1.3 dBV	-77 dB to +9 dB	-	-	Stereo

Figure 4 – Technical Audio Specifications (Push Pin version)

VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE AND PUSH PIN VERSION

This table outlines technical video specifications for the **breakout cable** and **push pin version** of the following Cbox models:

Model	Part Number	Part Number
Cbox P3	SYS-CBOX-P3	-
Cbox S3 Plus	SYS-CBOX-S3P-BC	SYS-CBOX-S3P-PP
Cbox S3	SYS-CBOX-S3-BC	SYS-CBOX-S3-PP
Cbox L3	SYS-CBOX-L3-BC	SYS-CBOX-L3-PP

	Name	Input Types	Connector	Signal Types	Standards	Formats	Embedded Audio
HD	DVI / HDMI / RGB IN 1	HDMI* DVI-D as DVI-I or DVI-A DVI-I DVI-A VGA	DMS59	Digital Video Analog RGB Progressive	HDMI 1.3 DVI 1.0	Up to 1080p60	Stereo 48 Khz
	DVI / HDMI / RGB IN 2						
	SDI IN 1	SDI	BNC	-	SD: SMPTE-259 HD: SMPTE-292 3G: SMPTE-494 Level A, Level B	Up to 1080p60 NTSC and PAL Interlaced and Progressive	SMPTE-292 2 x Stereo 48 Khz Additional channel pairs are optional
	SDI IN 2						
	SDI IN 3						
Analog	Video IN (Composite)	Analog CVBS	BNC	-	NTSC: 480i60 PAL: 576i50	-	-

Figure 5 – Technical Video Specifications (Breakout Cable and Push Pin version)

**Cbox does not capture from HDCP encrypted sources.*

NOTE: The base configuration **Cbox L3** has **TWO (upgradeable to THREE) HD input channels** and one analog (composite) input enabled. However, it is possible to enable an additional HD input channel upon approval of your account manager at Winnov.

NOTE: The base configuration **Cbox S3** has **THREE (upgradeable to FIVE) HD input channels** and one analog (composite) input enabled. However, it is possible to enable additional HD input channels upon approval of your account manager at Winnov.

SAFETY INSTRUCTIONS

SYSTEM POWER

When the Winnov Cbox appliance is turned off by using the power switch, power may still be supplied to the motherboard. To ensure that the appliance is completely shut down, unplug its power cord from its power source.

The Winnov Cbox appliance ships with all required components installed. There is no need to open the chassis to add or remove components. Please contact Winnov regarding any malfunction or failure of the Winnov Cbox appliance.

ELECTROSTATIC DISCHARGE (ESD) AND ESD PROTECTION

Static electricity can damage disk drives, boards, and other components. Before connecting or disconnecting any device to the Winnov Cbox appliance, we recommend you discharge static electricity by first touching a metal part of a grounded PC.



CAUTION: To reduce the risk of electric shock, do not open chassis; do not defeat or remove the ground pin of the power cord; connect only to a properly grounded ac power outlet. No user-serviceable parts inside. Refer servicing to qualified service personnel.

SAFETY NOTICE AND WARNINGS

FCC NOTICE

This device complies with Subpart B of Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

No Telecommunications Network Voltage (TNV)-connected PCBs shall be installed.

CE MARK WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

ENVIRONMENTAL WARNING

Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate.

This notice is required by California Code of Regulations, Title 22, Division 4.5, Chapter 33:

Best Management Practices for Perchlorate Materials. This product/part includes a battery that contains Perchlorate material.

INSTALLATION SAFETY NOTES

- Do not place the Winnov Cbox appliance underneath heavy loads or in an unstable position.
- Do not expose the Winnov Cbox appliance under direct sunlight, high humidity or wet conditions.
- Do not use or expose the Winnov Cbox appliance around magnetic fields as magnetic interference may affect the performance of the device.
- Do not block the air vents to this device or impede the airflow in any way.

GETTING STARTED WITH THE APPLIANCE

This section guides users through the physical elements of the Winnov Cbox appliance and its inputs, outputs, and accessories.



Important Safety Information! Please note the following:

1. The Winnov Cbox is intended for indoor use only.
2. In case of emergency, disconnect the power cords.
3. If power cords are not provided:
 - In the United States, use standard computer power cords (as specified below).
 - In Europe, for 230 volt operation, use a cord set marked "HAR" and consisting of a min 3 core H05VVF3G075 cord that has a minimum 0.75 square mm diameter conductors, provided with an IEC 320 receptacle and a male plug for the country of installation, rated 6A, 250V.
4. Do not block the equipment vents.

READ THE FOLLOWING SAFETY INFORMATION THOROUGHLY BEFORE INSTALLING THIS WINNOV PRODUCT. FAILURE TO FOLLOW THIS SAFETY INFORMATION MAY LEAD TO PERSONAL INJURY OR DAMAGE TO THE EQUIPMENT.

Power Supply

- This unit must be grounded.
- The unit must be connected to a grounded outlet to comply with product safety standards.
- The grounded socket-outlet shall be installed near the equipment and shall be easily accessible
- Do not connect the power supply unit to an AC outlet without a ground connection.
- All power cords must be disconnected before servicing.

Power Cords

The plug on the power supply cords are considered to be the equipment disconnect device and must be approved for the country where it is used.

For USA and Canada:

- The cord set must be UL-approved and CSA-certified.
- The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A 125V) plug and a EN60320/IEC320 receptacle.

CBOX P3

2.1. RECORD OF CBOX P3 HARDWARE REVISIONS

Revision Number	Date	Section(s)	Page(s)	Summary of Changes
1.0	8/4/2015			Initial Revision
1.1	11/15/2015		17	Revision to Audio Inputs

2.2. RIGHT PANEL

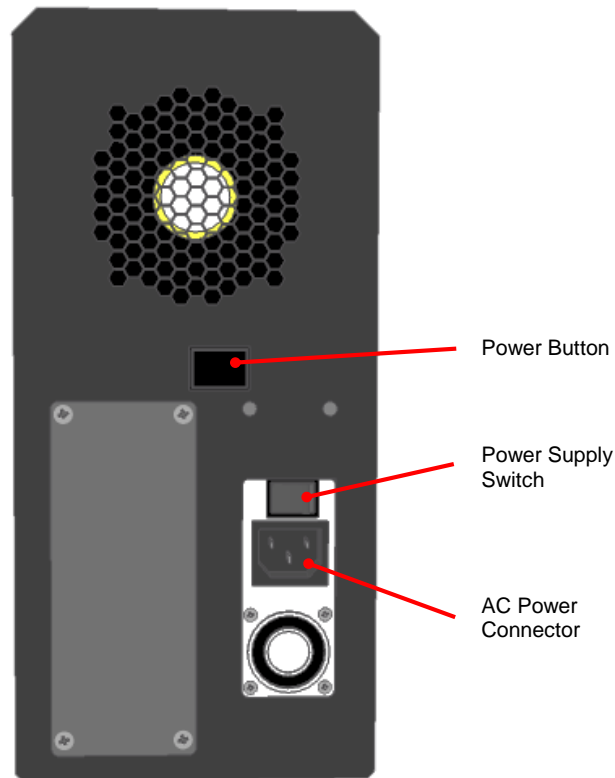


Figure 6 - Cbox P3 Right Panel

2.3. LEFT PANEL

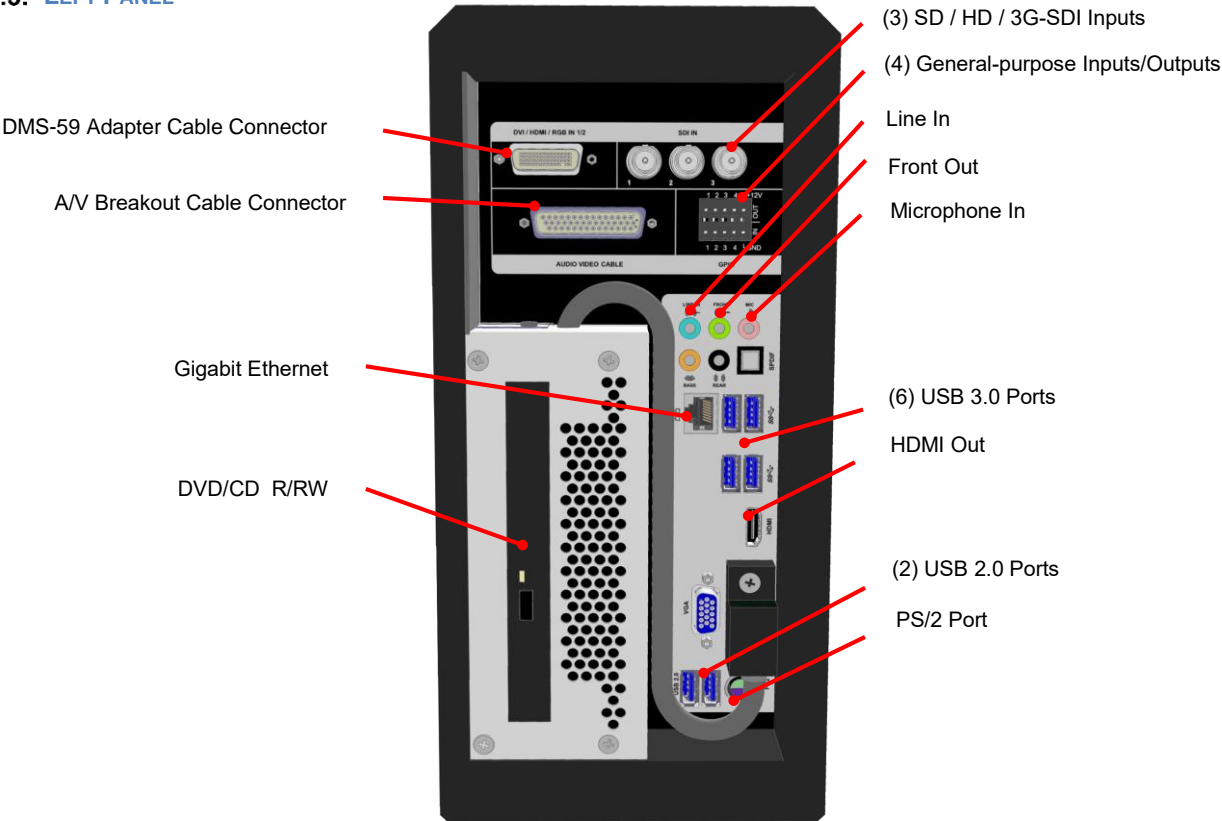


Figure 7 - Cbox P3 Left Panel

2.4. TOUCHSCREEN MONITOR

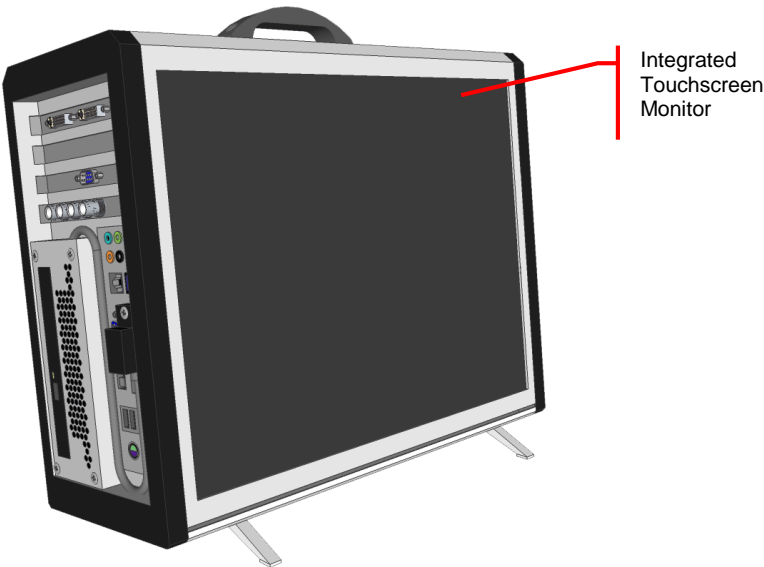


Figure 8 - Cbox P3 Touchscreen Monitor

2.5. POWERING ON THE SYSTEM

To power on the appliance, first turn power supply switch to the ON position marked “-”. Next, press the power button to power on the P3 system.

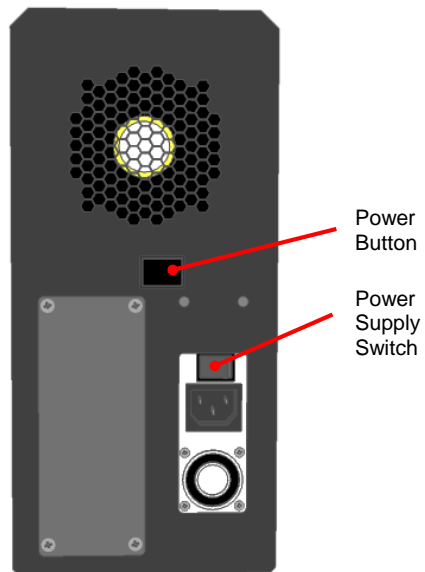


Figure 9 – Cbox P3 Power Supply Switch / Power Button

2.6. AUDIO/VIDEO INPUTS AND OUTPUTS

The A/V breakout cable is used to connect audio and video input sources to Cbox. It also provides audio outputs from the appliance. Each individual cable of the A/V breakout cable is labeled. These labels identify the video and audio sources for proper connection of devices to the appliance.

Cbox P3 supports connection of the following audio inputs:

- 2 Balanced Mono Mic / Line (XLR)
- 1 Stereo Balanced (XLR)
- 4 Stereo Unbalanced (RCA)
- 6 SDI embedded audio channels (BNC connectors)
- 2 HDMI embedded audio channels (DMS-59 adapter cable and DVI to HDMI adapter)

Cbox supports connection of an analog (composite) video source. When using the composite input, connect the camera to the “Video 1 IN” input of the A/V breakout cable.



Figure 10 – Cbox P3 | A/V Breakout Cable

2.7. AUDIO OUT FOR ROOM SOUND SYSTEM

The audio output of Cbox appliance can be used to connect to the room sound system or to a PC speaker set. The A/V breakout cable provides a balanced line-level stereo audio out signal (Audio R Out, Audio L Out) via XLR connectors. Standard adapter/cables can be used to interface to unbalanced line-level audio input of the room sound system or to a PC speaker set.



Figure 11 – Cbox P3 | Balanced Audio OUT XLR (male) Connectors

2.8. DVI / HDMI / RGB INPUTS

The DMS-59 to DVI-I Adapter Cable is used to connect up to two DVI / HDMI / RGB inputs simultaneously via the DVI-I connectors. The DVI-I connectors are numbered “1” and “2” and correspond to DVI / HDMI / RGB 1 video input and DVI / HDMI / RGB 2 video input. Use the included DVI to HDMI adapters to connect one or two HDMI input(s).



Figure 12 – Cbox P3 | DMS-59 Adapter Cable

2.9. SD / HD / 3G-SDI INPUTS

The SD / HD / 3G-SDI inputs must be connected to the BNC connectors on the back panel.

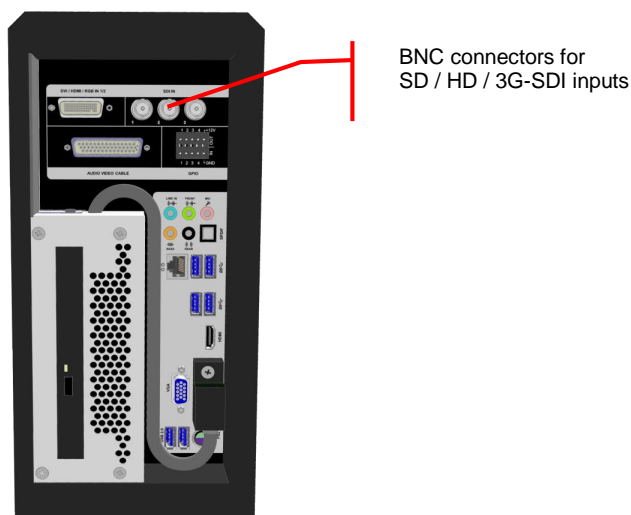


Figure 13 – Cbox P3 | HD / 3G-SDI Input(s) / BNC Connector

2.10. VGA / HDMI DISPLAY OUTPUTS

The VGA / HDMI display outputs can be used to connect either one or two output devices (monitors, projectors, etc.). The secondary display can be used to show a video mix controlled via the Cbox Amalga Software.

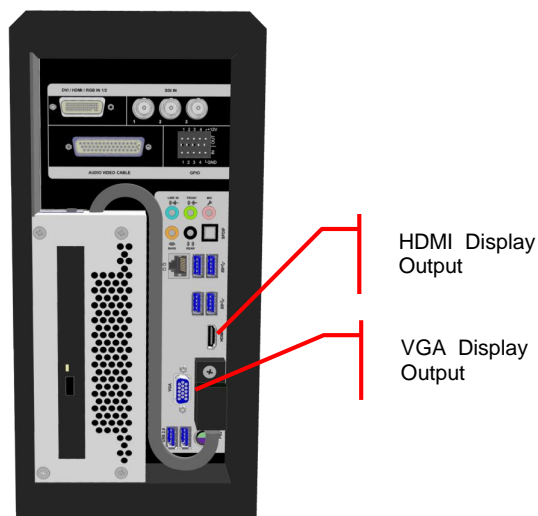


Figure 14 – Cbox P3 | VGA / HDMI Display Outputs

2.11. AUDIO MONITOR OUTPUT

If you want to use headphones, connect them on the back panel.

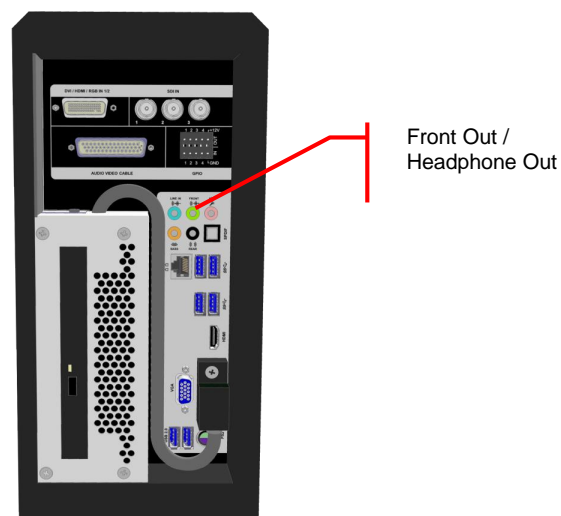


Figure 15 – Cbox P3 | Headphone Out

2.12. MOUSE AND KEYBOARD

Use the USB ports or PS/2 port when connecting the mouse and the keyboard to the Cbox appliance.

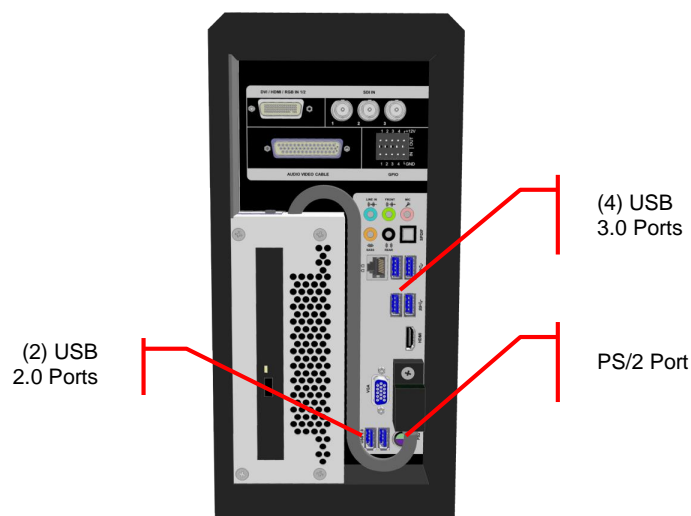


Figure 16 – Cbox P3 | USB and PS/2 Ports

2.13. GENERAL-PURPOSE INPUTS AND OUTPUTS

Up to four general-purpose inputs and outputs may be used to activate external triggers (E.g., pressure mats, footswitches, button panel). Triggers may be used to control and manage specific functions, such as starting a recording, controlling pan-tilt-zoom cameras, and switching input sources.

NOTE: The General-Purpose Inputs and Outputs feature will be enabled in a future software update

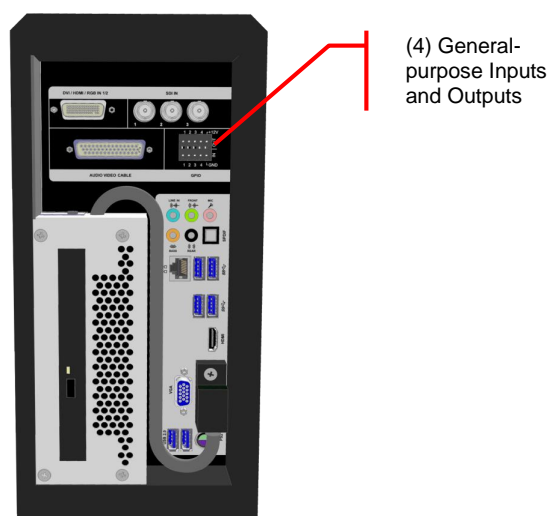


Figure 17 – Cbox P3 | General-purpose Inputs and Outputs

2.14. USING A PANASONIC PTZ CAMERA

Panasonic AW-HE2, AW-HE40, AW-HE50, AW-HE120, and AW-HE 130 pan-tilt-zoom cameras can be used with Cbox. The PTZ control feature requires configuration to control over IP. Please refer to the Cbox Software User Guide.



Figure 18 - Cbox P3 and Panasonic PTZ cameras

CBOX S3 PLUS

3.1. RECORD OF CBOX S3 PLUS HARDWARE REVISIONS

Revision Number	Date	Section(s)	Page(s)	Summary of Changes
1.0	8/4/2015			Initial Revision

3.2. FRONT PANEL



Figure 19 - Cbox S3 Plus Front Panel

3.3. BACK PANEL - BREAKOUT CABLE VERSION

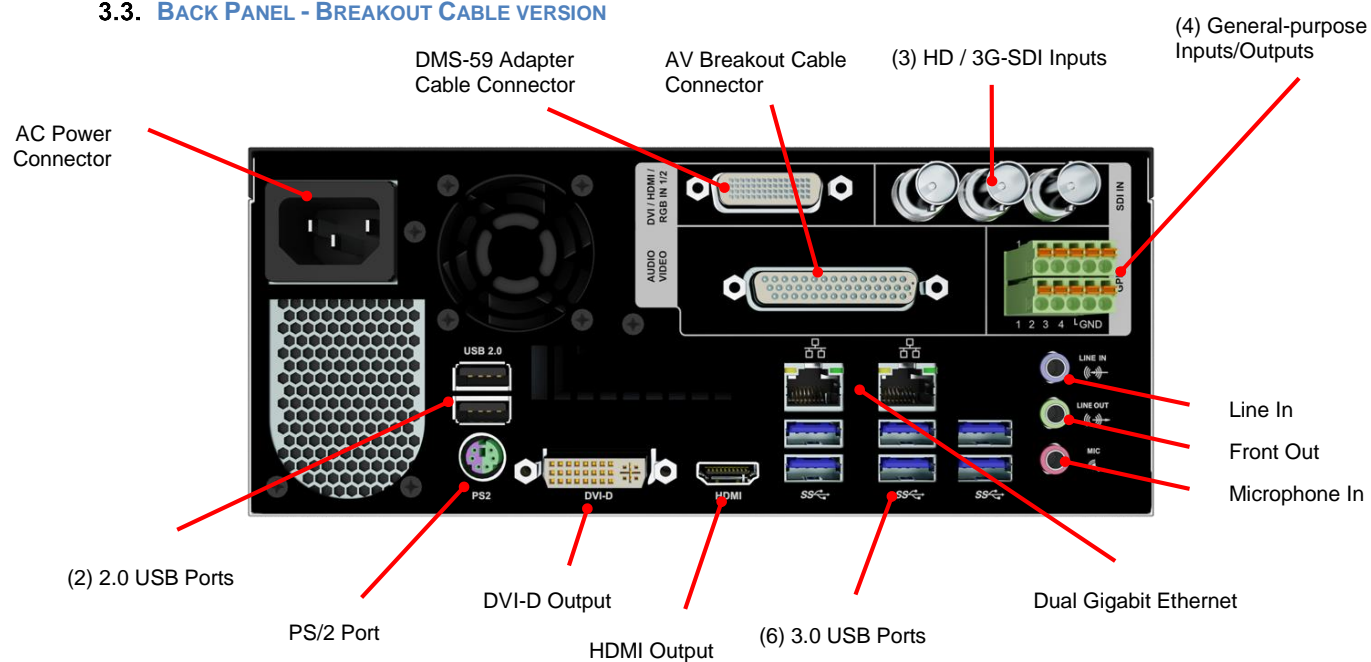


Figure 20 - Cbox S3 Plus Back Panel (Breakout Cable version)

3.4. BACK PANEL - PUSH PIN VERSION

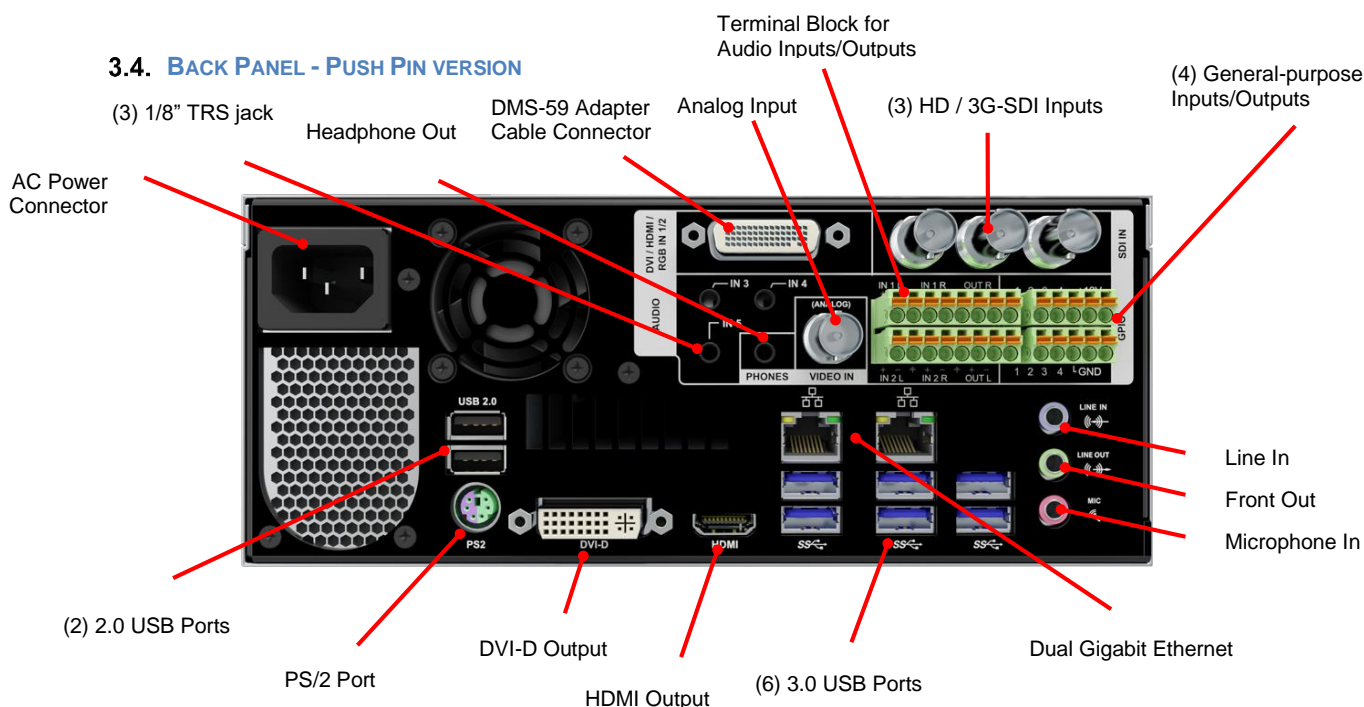


Figure 21 - Cbox S3 Plus Back Panel (Push Pin version)

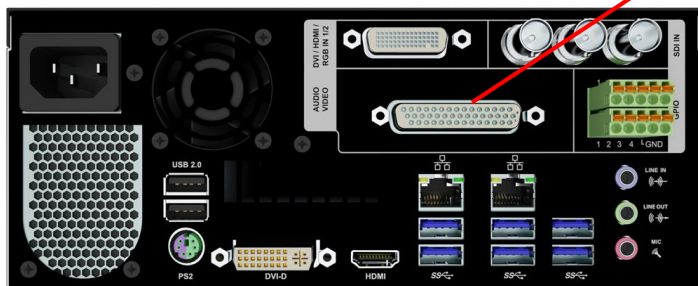
3.5. AUDIO / VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION

The A/V breakout cable is used to connect audio and video input sources to Cbox S3 Plus (Breakout Cable version). It also provides audio outputs from the appliance. Each individual cable of the A/V breakout cable is labeled. These labels identify the video and audio sources for proper connection of devices to the appliance.

Cbox S3 Plus (Breakout Cable version) supports connection of the following audio inputs:

- 2 Balanced Mono Mic / Line (XLR)
- 1 Stereo Balanced (XLR)
- 4 stereo unbalanced (RCA)
- 6 SDI embedded audio channels (BNC connectors)
- 2 HDMI embedded audio channels (DMS-59 adapter cable and DVI to HDMI adapter)

Cbox supports connection of an analog (composite) video source. When using the composite input, connect the camera to the "Video 1 IN" input of the A/V breakout cable.



A/V breakout cable needs to be connected to the "AUDIO VIDEO" connector



Figure 22 – Cbox S3 Plus (Breakout Cable version) | A/V Breakout Cable

3.6. AUDIO OUT FOR ROOM SOUND SYSTEM - BREAKOUT CABLE VERSION

The audio output of Cbox S3 Plus can be used to connect to the room sound system or to a PC speaker set. It provides a balanced line-level stereo audio out signal (Audio R Out, Audio L Out) via XLR connectors. Standard adapter/cables can be used to interface to unbalanced line-level audio input of the room sound system or to a PC speaker set.



Figure 23 – Cbox S3 Plus (Breakout Cable version) | Balanced Audio OUT XLR (male) connectors

3.7. AUDIO / VIDEO INPUTS AND OUTPUTS - PUSH PIN VERSION

The terminal block and 1/8" jacks are used to connect audio input sources to Cbox S3 Plus (Push Pin version). The terminal block provides two stereo balanced inputs (Audio IN 1 R, Audio IN 1 L, Audio IN 2 R, Audio IN 2 L). 1/8" jacks provide three stereo unbalanced inputs.

Cbox S3 Plus (Push Pin version) supports connection of the following:

- 2 stereo balanced (terminal block)
- 3 stereo unbalanced (1/8" TRS jack)
- 6 SDI embedded audio channels (BNC connectors)
- 2 HDMI embedded audio channels (DMS-59 adapter cable and DVI to HDMI adapter)

Cbox supports connection of an analog (composite) video source. When using the composite input, connect the camera to the BNC connector labeled "Video 1 IN."

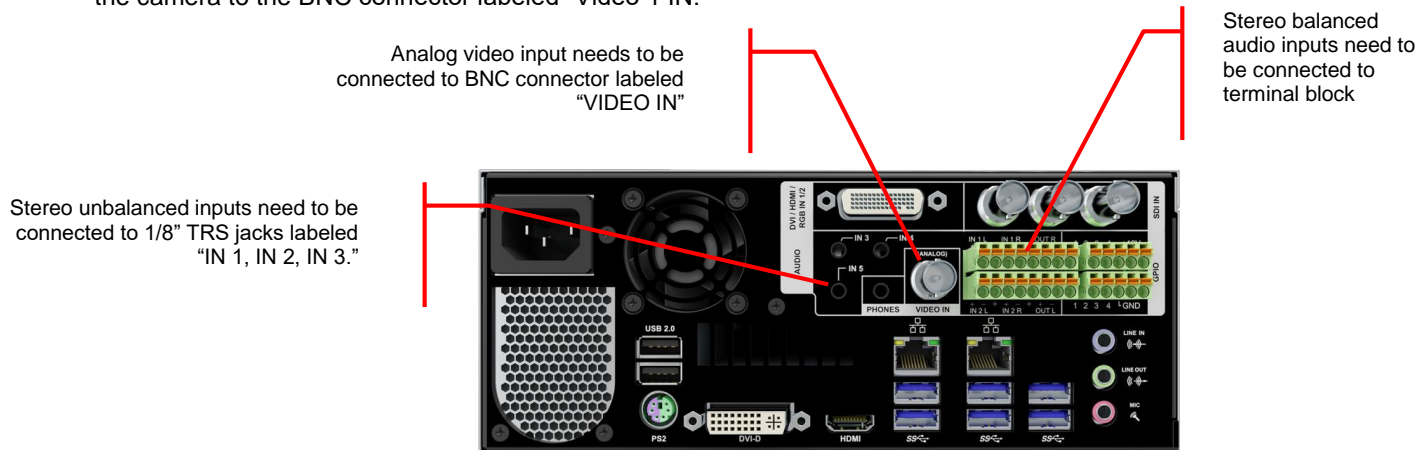


Figure 24 – Cbox S3 Plus (Push Pin version) | Audio/Video Inputs

3.8. AUDIO OUT FOR ROOM SOUND SYSTEM - PUSH PIN VERSION

The audio output of Cbox S3 Plus can be used to connect to the room sound system or to a PC speaker set. It provides a balanced line-level stereo audio out signal (Audio R OUT, Audio L OUT) via terminal block.

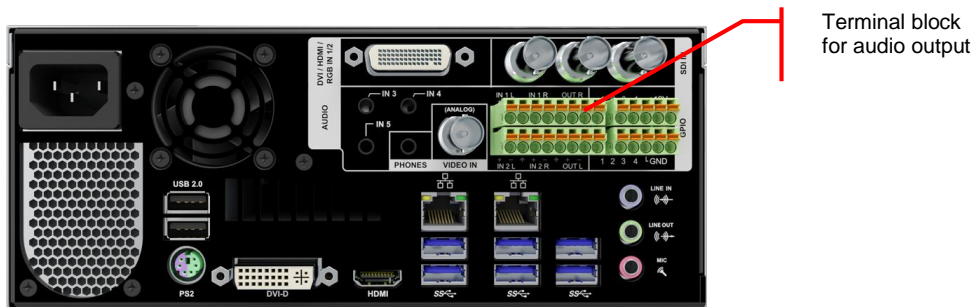


Figure 25 – Cbox S3 Plus (Push Pin version) | Balanced Audio OUT

3.9. DVI / HDMI / RGB INPUTS

The DMS-59 to DVI-I Adapter Cable is used to connect up to two DVI / HDMI / RGB inputs simultaneously via the DVI-I connectors. The DVI-I connectors are numbered “1” and “2” and correspond to DVI / HDMI / RGB 1 video input and DVI / HDMI / RGB 2 video input. Use the included DVI to HDMI adapters to connect one or two HDMI input(s).



Figure 26 – Cbox S3 Plus (Breakout Cable version) | DMS-59 Adapter Cable



Figure 27 - Cbox S3 Plus (Push Pin version) | DMS-59 Adapter Cable

3.10. SD / HD / 3G-SDI INPUTS

The SD / HD / 3G-SDI inputs must be connected to the BNC connectors on the back panel.

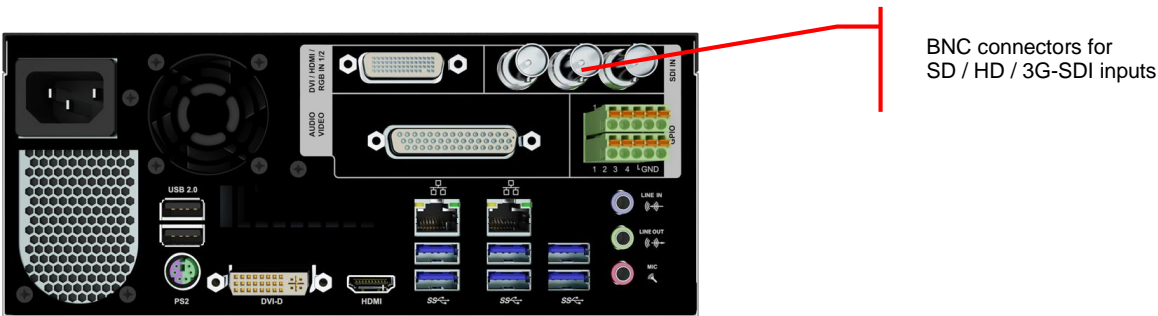


Figure 28 – Cbox S3 Plus | SD / HD / 3G-SDI Inputs

3.11. DVI AND HDMI VIDEO OUTPUTS

The DVI-D and HDMI video outputs can be used to connect either one or two output devices (monitors, projectors, etc.). The secondary display can be used to show a video mix controlled via the Cbox Amalga Software.

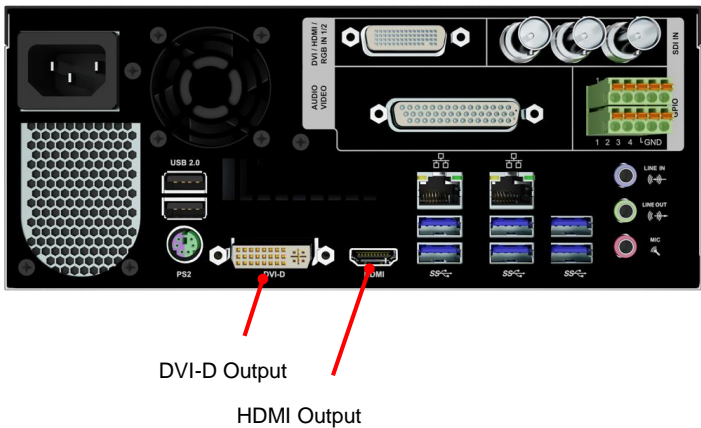


Figure 29 – Cbox S3 Plus | DVI and HDMI Video Outputs

3.12. AUDIO MONITOR OUTPUT

If you want to use headphones, connect them on the front panel.



Figure 30 – Cbox S3 Plus | Front Panel / Headphones

3.13. MOUSE AND KEYBOARD

Use the USB 2.0 or PS/2 ports when connecting the mouse and the keyboard to the Cbox appliance.

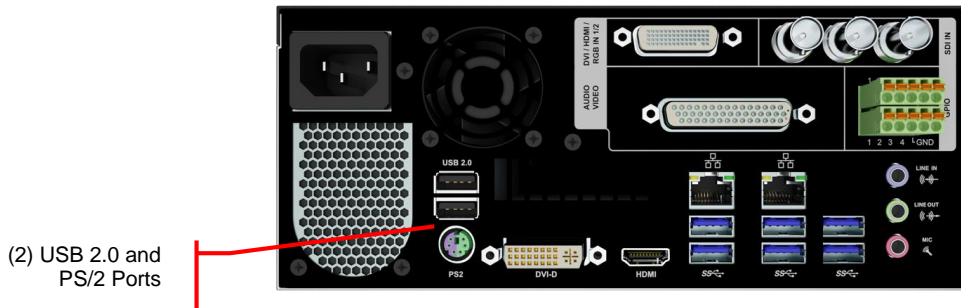


Figure 31 – Cbox S3 Plus | USB 2.0 and PS/2 Ports

3.14. GENERAL-PURPOSE INPUTS AND OUTPUTS

Up to four general-purpose inputs and outputs may be used to activate external triggers (E.g., pressure mats, footswitches, button panel). Triggers may be used to control and manage specific functions, such as starting a recording, controlling pan-tilt-zoom cameras, and switching inputs sources. The GPIO control feature requires configuration.

NOTE: The General-Purpose Inputs and Outputs feature will be enabled in a future software update

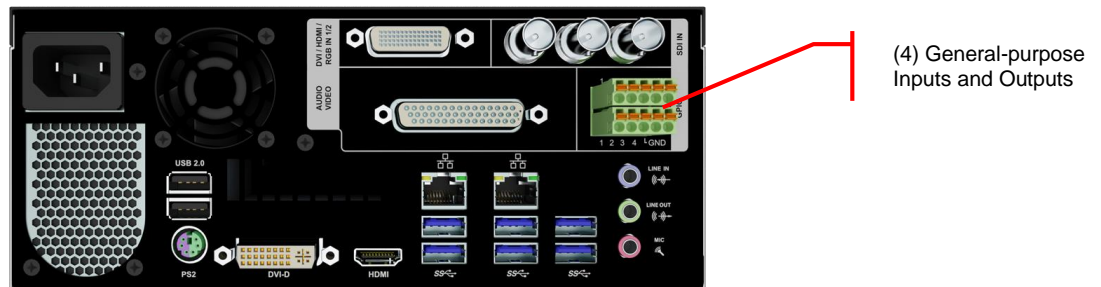


Figure 32 – Cbox S3 Plus | General-purpose Inputs and Outputs

3.15. USING A PANASONIC PTZ CAMERA

Panasonic AW-HE2, AW-HE40, AW-HE50, AW-HE120, and AW-HE 130 pan-tilt-zoom cameras can be used with Cbox. The PTZ control feature requires configuration to control over IP. Please refer to the Cbox Software User Guide for configuration instructions.



Figure 33 - Cbox S3 Plus and Panasonic PTZ cameras

CBOX S3

4.1. RECORD OF CBOX S3 HARDWARE REVISIONS

Revision Number	Date	Section(s)	Page(s)	Summary of Changes
1.0	8/4/2015			Initial Revision
1.1	11/15/2015		26	Revision to Audio Inputs

4.2. FRONT PANEL



Figure 34 - Cbox S3 Front Panel

4.3. BACK PANEL - BREAKOUT CABLE VERSION

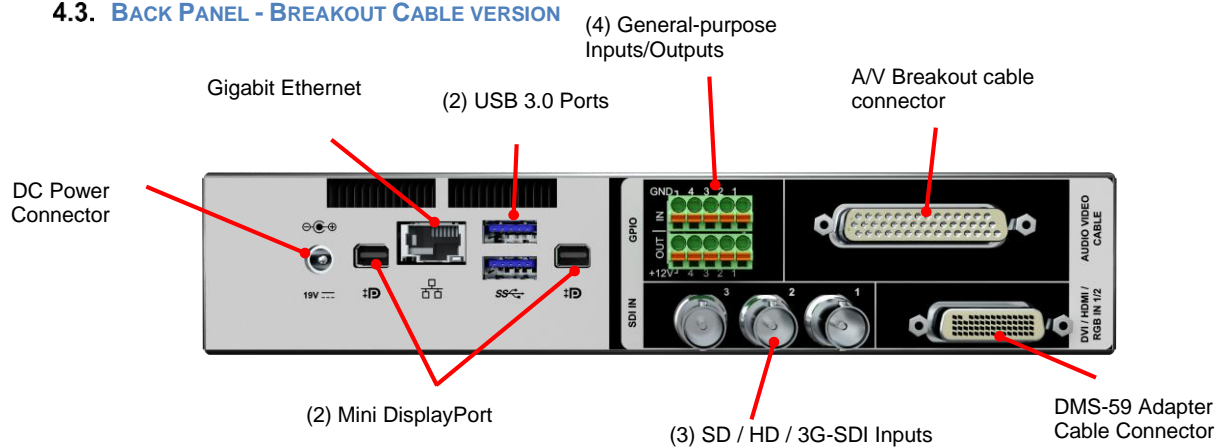


Figure 35 - Cbox S3 Back Panel (Breakout Cable version)

4.4. BACK PANEL - PUSH PIN VERSION

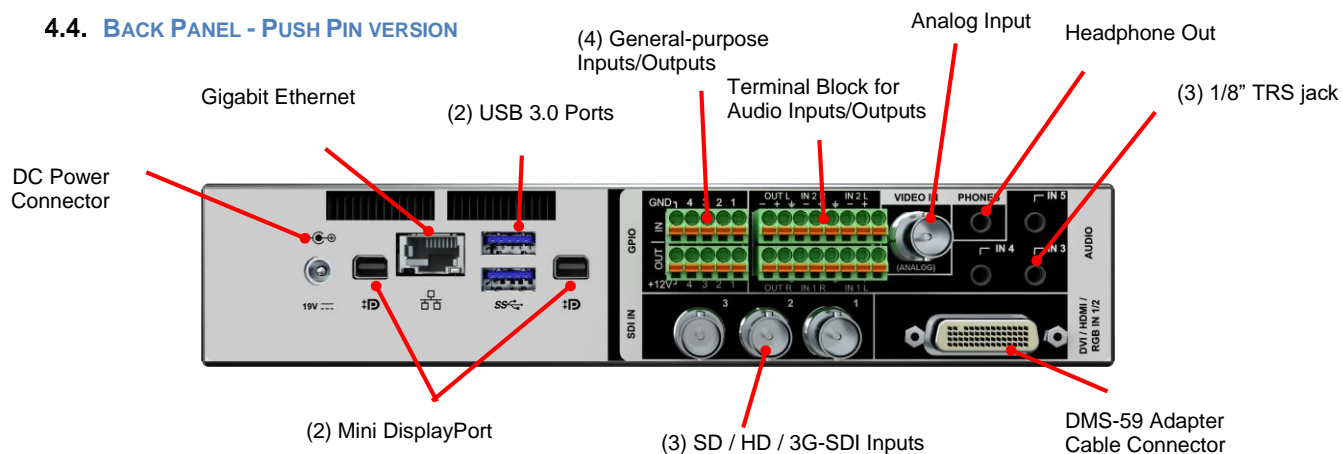


Figure 36 - Cbox S3 Back Panel (Push Pin version)

4.5. AUDIO / VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION

The A/V breakout cable is used to connect audio and video input sources to Cbox S3 (Breakout Cable version). It also provides audio outputs from the appliance. Each individual cable of the A/V breakout cable is labeled. These labels identify the video and audio sources for proper connection of devices to the appliance.

Cbox S3 (Breakout Cable version) supports connection of the following audio inputs:

- 2 Balanced Mono Mic / Line (XLR)
- 1 Stereo Balanced (XLR)
- 4 stereo unbalanced (RCA)
- 6 SDI embedded audio channels (BNC connectors)
- 2 HDMI embedded audio channels (DMS-59 adapter cable and DVI to HDMI adapter)

Cbox supports connection of an analog (composite) video source. When using the composite input, connect the camera to the “Video 1 IN” input of the A/V breakout cable.



A/V breakout cable needs to be connected to the “AUDIO VIDEO CABLE” connector



Figure 37 – Cbox S3 (Breakout Cable version) | A/V Breakout Cable

4.6. AUDIO OUT FOR ROOM SOUND SYSTEM - BREAKOUT CABLE VERSION

The audio output of Cbox S3 can be used to connect to the room sound system or to a PC speaker set. It provides a balanced line-level stereo audio out signal (Audio R Out, Audio L Out) via XLR connectors. Standard adapter/cables can be used to interface to unbalanced line-level audio input of the room sound system or to a PC speaker set.



Figure 38 – Cbox S3 (Breakout Cable version) | Balanced Audio OUT XLR (male) connectors

4.7. AUDIO / VIDEO INPUTS AND OUTPUTS - PUSH PIN VERSION

The terminal block and 1/8" TRS jacks are used to connect audio input sources to Cbox S3 (Push Pin version). The terminal block provides two stereo balanced inputs (Audio IN 1 R, Audio IN 1 L, Audio IN 2 R, Audio IN 2 L). 1/8" TRS jacks provide three stereo unbalanced inputs.

Cbox S3 (Push Pin version) supports connection of the following:

- 2 stereo balanced (terminal block)
- 3 stereo unbalanced (1/8" TRS jack)
- 6 SDI embedded audio channels (BNC connectors)
- 2 HDMI embedded audio channels (DMS-59 adapter cable and DVI to HDMI adapter)

Cbox supports connection of an analog (composite) video source. When using the composite input, connect the camera to the BNC connector labeled "Video 1 IN."

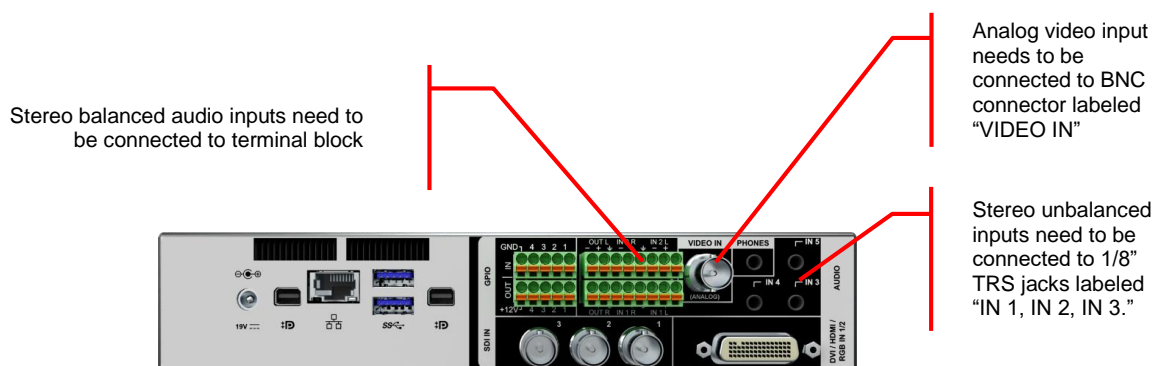


Figure 39 – Cbox S3 (Push Pin version) | Audio/Video Inputs

4.8. AUDIO OUT FOR ROOM SOUND SYSTEM - PUSH PIN VERSION

The audio output of Cbox S3 can be used to connect to the room sound system or to a PC speaker set. It provides a balanced line-level stereo audio out signal (Audio R OUT, Audio L OUT) via terminal block.

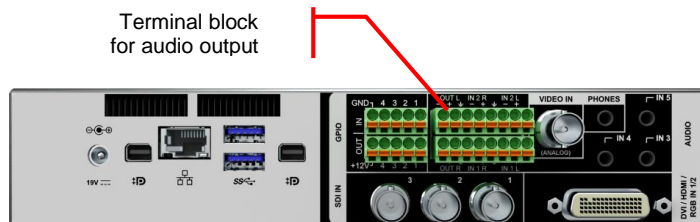


Figure 40 – Cbox S3 (Push Pin version) | Balanced Audio OUT

4.9. DVI / HDMI / RGB INPUTS

The DMS-59 to DVI-I Adapter Cable is used to connect up to two DVI / HDMI / RGB inputs simultaneously via the DVI-I connectors. The DVI-I connectors are numbered “1” and “2” and correspond to DVI / HDMI / RGB 1 video input and DVI / HDMI / RGB 2 video input. Use the included DVI to HDMI adapters to connect one or two HDMI input(s).

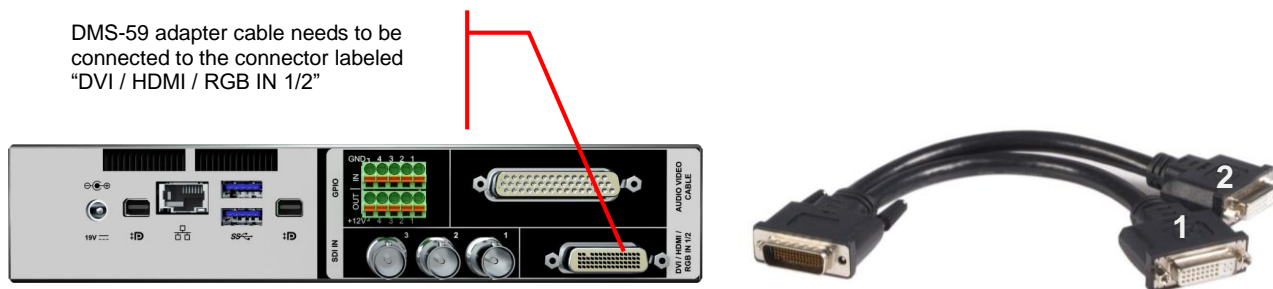


Figure 41 - Cbox S3 (Breakout Cable version) | DMS-59 Adapter Cable

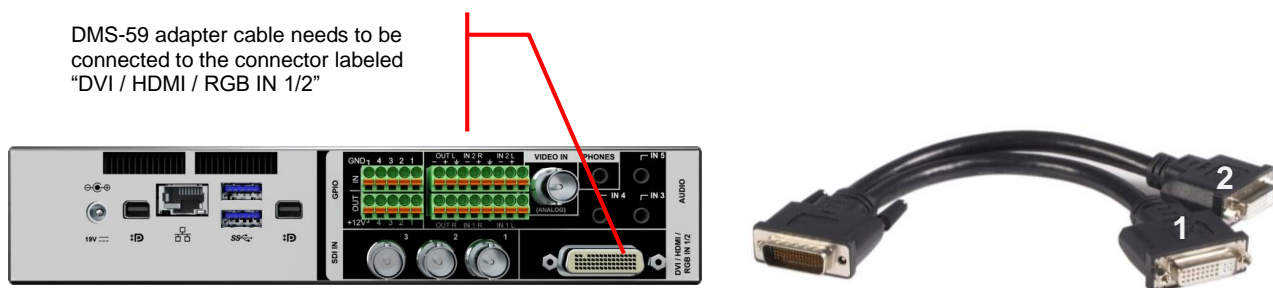


Figure 42 - Cbox S3 (Push Pin version) | DMS-59 Adapter Cable

4.10. SD / HD / 3G-SDI INPUTS

The SD / HD / 3G-SDI inputs must be connected to the BNC connectors on the back panel.

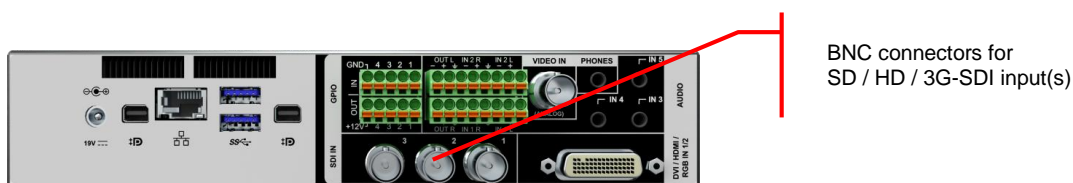


Figure 43 - Cbox S3 | SD / HD / 3G-SDI Input(s)

NOTE: The base configuration **Cbox S3** has **THREE (upgradeable to FIVE) HD input channels** and one analog (composite) input enabled. However, it is possible to enable additional HD input channels upon approval of your account manager at Winnov.

4.11. MINI DISPLAYPORT VIDEO OUTPUTS

The Mini DisplayPort video outputs can be used to connect either one or two output devices (monitors, projectors, etc.). The secondary display can be used to show a video mix controlled via the Cbox Amalg Software.

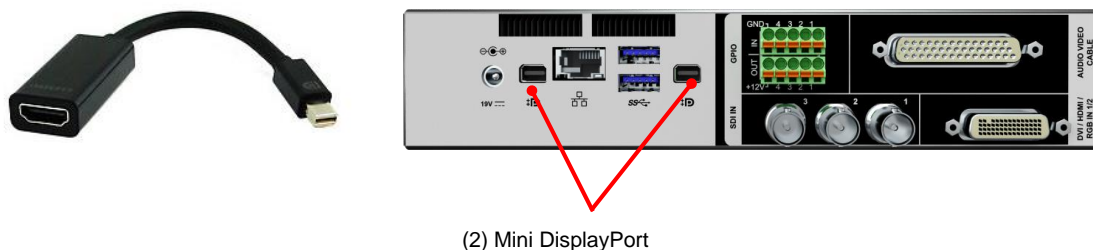


Figure 44 – Cbox S3 | Mini DisplayPort Video Outputs

4.12. AUDIO MONITOR OUTPUT

If you want to use headphones, connect them on the front panel.



Figure 45 – Cbox S3 | Front Panel / Headphones

4.13. MOUSE AND KEYBOARD

Use the USB 3.0 ports when connecting the mouse and the keyboard to the Cbox appliance.

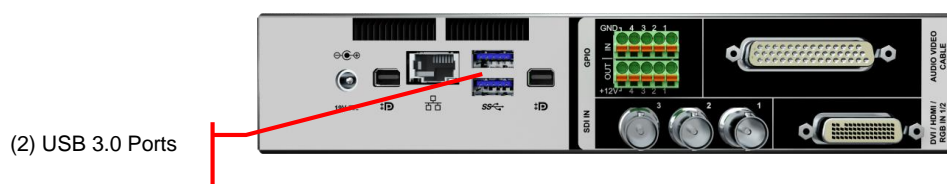


Figure 46 – Cbox S3 | USB 3.0 Ports

4.14. GENERAL-PURPOSE INPUTS AND OUTPUTS

Up to four general-purpose inputs and outputs may be used to activate external triggers (E.g., pressure mats, footswitches, button panel). Triggers may be used to control and manage specific functions, such as starting a recording, controlling pan-tilt-zoom cameras, and switching inputs sources. The GPIO control feature requires configuration.

NOTE: The General-Purpose Inputs and Outputs feature will be enabled in a future software update



Figure 47 – Cbox S3 | General-purpose Inputs and Outputs

4.15. USING A PANASONIC PTZ CAMERA

Panasonic AW-HE2, AW-HE40, AW-HE50, AW-HE120, and AW-HE 130 pan-tilt-zoom cameras can be used with Cbox. The PTZ control feature requires configuration to control over IP. Please refer to the Cbox Software User Guide for configuration instructions.



Figure 48 - Cbox S3 and Panasonic PTZ cameras

CBOX L3

5.1. RECORD OF CBOX L3 HARDWARE REVISIONS

Revision Number	Date	Section(s)	Page(s)	Summary of Changes
1.0	8/4/2015			Initial Revision
1.1	11/15/2015		35	Revision to Audio Inputs

5.2. FRONT PANEL



Figure 49 - Cbox L3 Front Panel

5.3. BACK PANEL - BREAKOUT CABLE VERSION

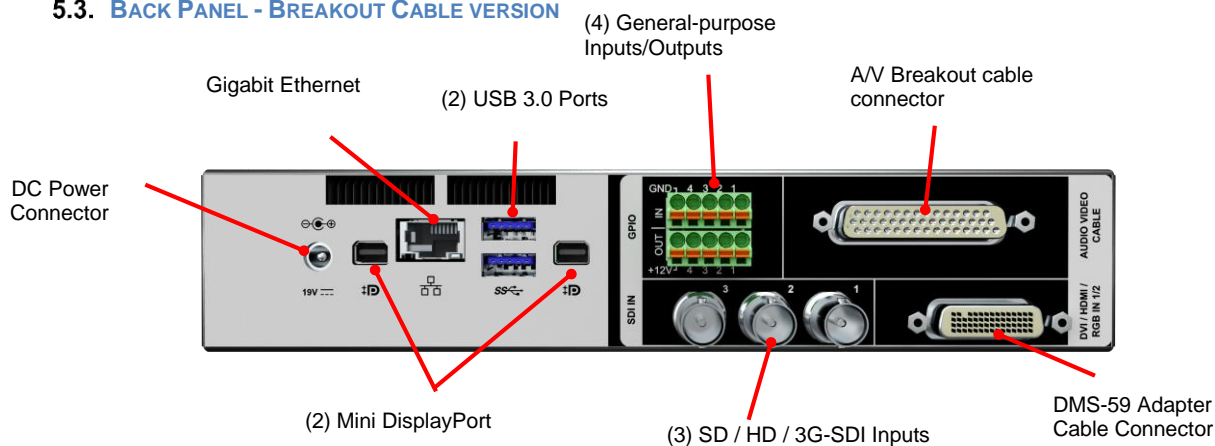


Figure 50 - Cbox L3 Back Panel (Breakout Cable version)

5.4. BACK PANEL - PUSH PIN VERSION

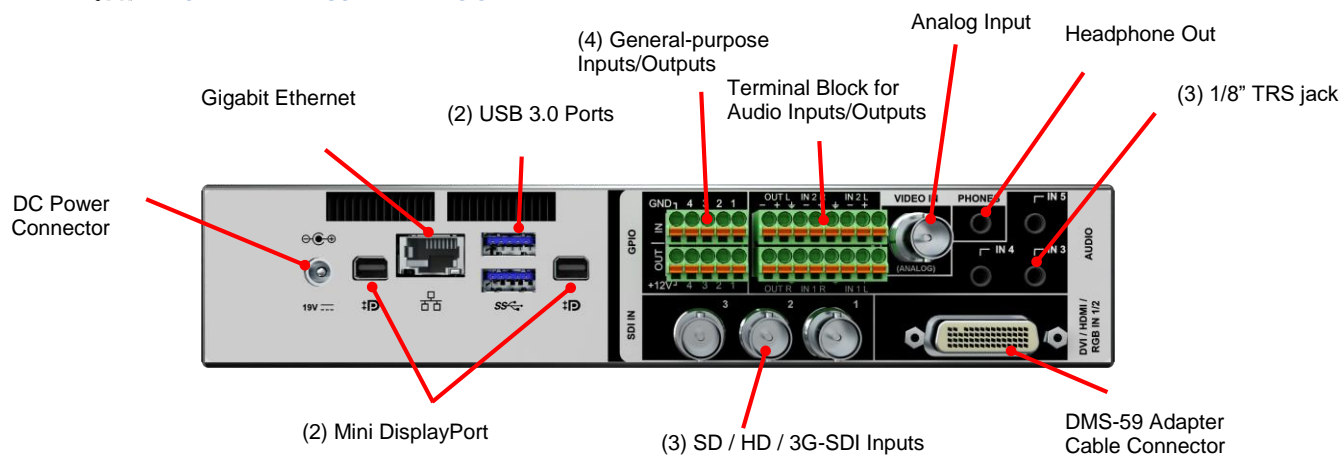


Figure 51 - Cbox L3 Back Panel (Push Pin version)

5.5. AUDIO / VIDEO INPUTS AND OUTPUTS - BREAKOUT CABLE VERSION

The A/V breakout cable is used to connect audio and video input sources to Cbox L3 (Breakout Cable version). It also provides audio outputs from the appliance. Each individual cable of the A/V breakout cable is labeled. These labels identify the video and audio sources for proper connection of devices to the appliance.

Cbox L3 (Breakout Cable version) supports connection of the following audio inputs:

- 2 Balanced Mono Mic / Line (XLR)
- 1 Stereo Balanced (XLR)
- 4 stereo unbalanced (RCA)
- 6 SDI embedded audio channels (BNC connectors)
- 2 HDMI embedded audio channels (DMS-59 adapter cable and DVI to HDMI adapter)

Cbox supports connection of an analog (composite) video source. When using the composite input, connect the camera to the “Video 1 IN” input of the A/V breakout cable.



A/V breakout cable needs to be connected to the “AUDIO VIDEO CABLE” connector



Figure 52 – Cbox L3 (Breakout Cable version) | A/V Breakout Cable

5.6. AUDIO OUT FOR ROOM SOUND SYSTEM - BREAKOUT CABLE VERSION

The audio output of Cbox L3 can be used to connect to the room sound system or to a PC speaker set. It provides a balanced line-level stereo audio out signal (Audio R Out, Audio L Out) via XLR connectors. Standard adapter/cables can be used to interface to unbalanced line-level audio input of the room sound system or to a PC speaker set.



Figure 53 - Cbox L3 (Breakout Cable version) | Balanced Audio OUT XLR (male) connectors

5.7. AUDIO / VIDEO INPUTS AND OUTPUTS - PUSH PIN VERSION

The terminal block and 1/8" TRS jacks are used to connect audio input sources to Cbox L3 (Push Pin version). The terminal block provides two stereo balanced inputs (Audio IN 1 R, Audio IN 1 L, Audio IN 2 R, Audio IN 2 L). 1/8" TRS jacks provide three stereo unbalanced inputs.

Cbox L3 (Push Pin version) supports connection of the following:

- 2 stereo balanced (terminal block)
- 3 stereo unbalanced (1/8" jack)
- 6 SDI embedded audio channels (BNC connectors)
- 2 HDMI embedded audio channels (DMS-59 adapter cable and DVI to HDMI adapter)

Cbox supports connection of an analog (composite) video source. When using the composite input, connect the camera to the BNC connector labeled "Video 1 IN."

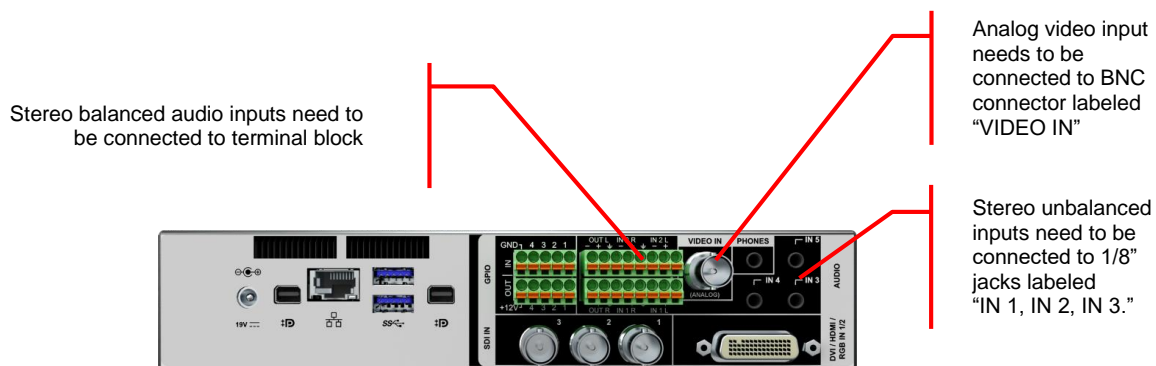


Figure 54 - Cbox L3 (Push Pin version) | Audio/Video Inputs

5.8. AUDIO OUT FOR ROOM SOUND SYSTEM - PUSH PIN VERSION

The audio output of Cbox L3 can be used to connect to the room sound system or to a PC speaker set. It provides a balanced line-level stereo audio out signal (Audio R OUT, Audio L OUT) via terminal block.

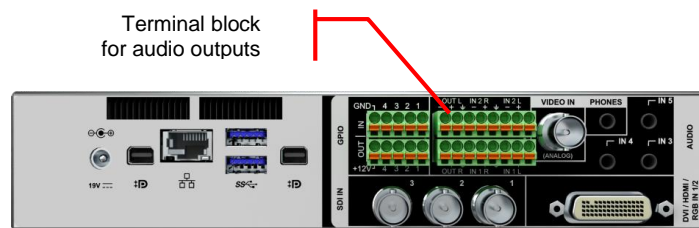


Figure 55 – Cbox L3 (Push Pin version) | Balanced Audio OUT

5.9. DVI / HDMI / RGB INPUTS

The DMS-59 to DVI-I Adapter Cable is used to connect up to two DVI / HDMI / RGB inputs simultaneously via the DVI-I connectors. The DVI-I connectors are numbered “1” and “2” and correspond to DVI / HDMI / RGB 1 video input and DVI / HDMI / RGB 2 video input. Use the included DVI to HDMI adapters to connect one or two HDMI input(s).

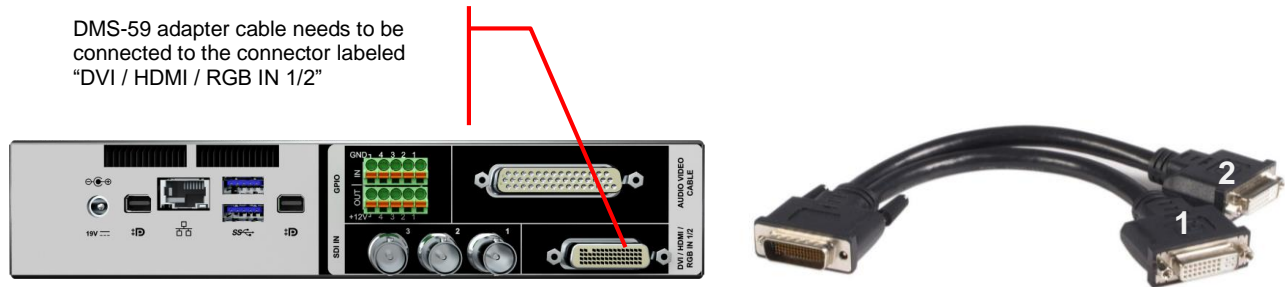


Figure 56 - Cbox L3 (Breakout Cable version) | DMS-59 Adapter Cable

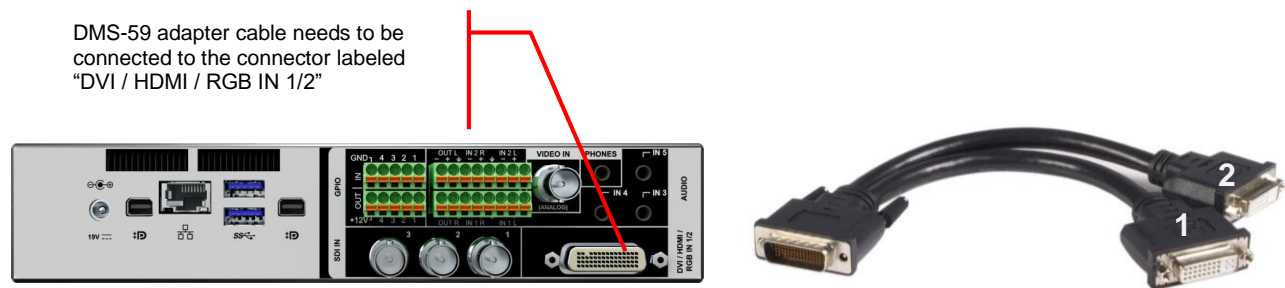


Figure 57 - Cbox L3 (Push Pin version) | DMS-59 Adapter Cable

5.10. SD / HD / 3G-SDI INPUTS

The SD / HD / 3G-SDI inputs must be connected to the BNC connectors on the back panel.

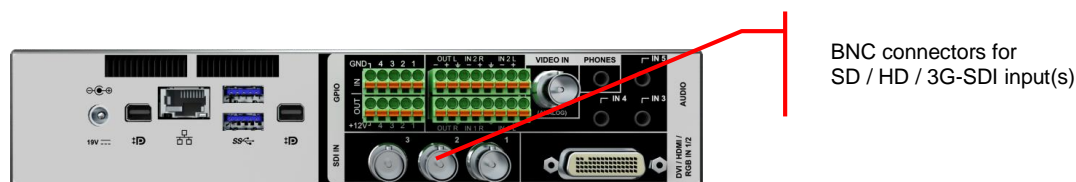


Figure 58 - Cbox L3 (Push Pin version) | DMS-59 Adapter Cable

NOTE: The base configuration **Cbox L3** has **TWO (upgradeable to THREE) HD input channels** and one analog (composite) input enabled. However, it is possible to enable an additional HD input channel upon approval of your account manager at Winnov.

5.11. MINI DISPLAYPORT VIDEO OUTPUTS

The Mini DisplayPort video outputs can be used to connect either one or two output devices (monitors, projectors, etc.). The secondary display can be used to show a video mix controlled via the Cbox Amalgam Software.

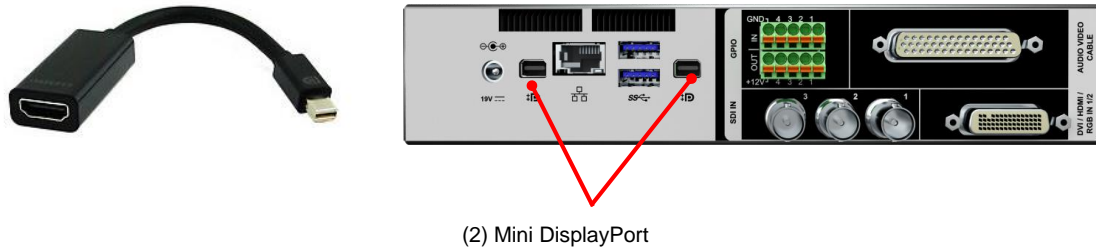


Figure 59 – Cbox L3 | Mini DisplayPort Video Outputs

5.12. AUDIO MONITOR OUTPUT

If you want to use headphones, connect them on the front panel.



Figure 60 – Cbox L3 | Front Panel / Headphones

5.13. MOUSE AND KEYBOARD

Use the USB 3.0 ports when connecting the mouse and the keyboard to the Cbox appliance.

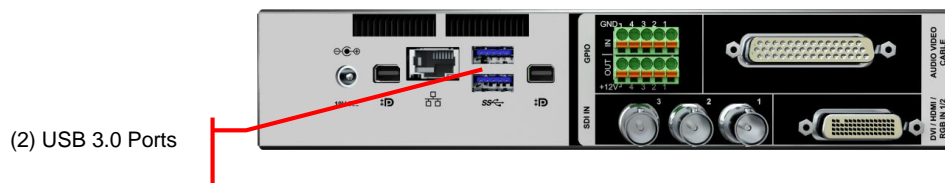


Figure 61 – Cbox L3 | USB 3.0 Ports

5.14. GENERAL-PURPOSE INPUTS AND OUTPUTS

Up to four general-purpose inputs and outputs may be used to activate external triggers (E.g., pressure mats, footswitches, button panel). Triggers may be used to control and manage specific functions, such as starting a recording, controlling pan-tilt-zoom cameras, and switching inputs sources. The GPIO control feature requires configuration.

NOTE: The General-Purpose Inputs and Outputs feature will be enabled in a future software update



Figure 62 – Cbox L3 | General-purpose Inputs and Outputs

5.15. USING A PANASONIC PTZ CAMERA

Panasonic AW-HE2, AW-HE40, AW-HE50, AW-HE120, and AW-HE 130 pan-tilt-zoom cameras can be used with Cbox. The PTZ control feature requires configuration to control over IP. Please refer to the Cbox Software User Guide.



Figure 63 - Cbox L3 and Panasonic PTZ cameras

APPENDIX

CBOX L3/S3 RACK MOUNT INSTRUCTIONS: SINGLE SYSTEM

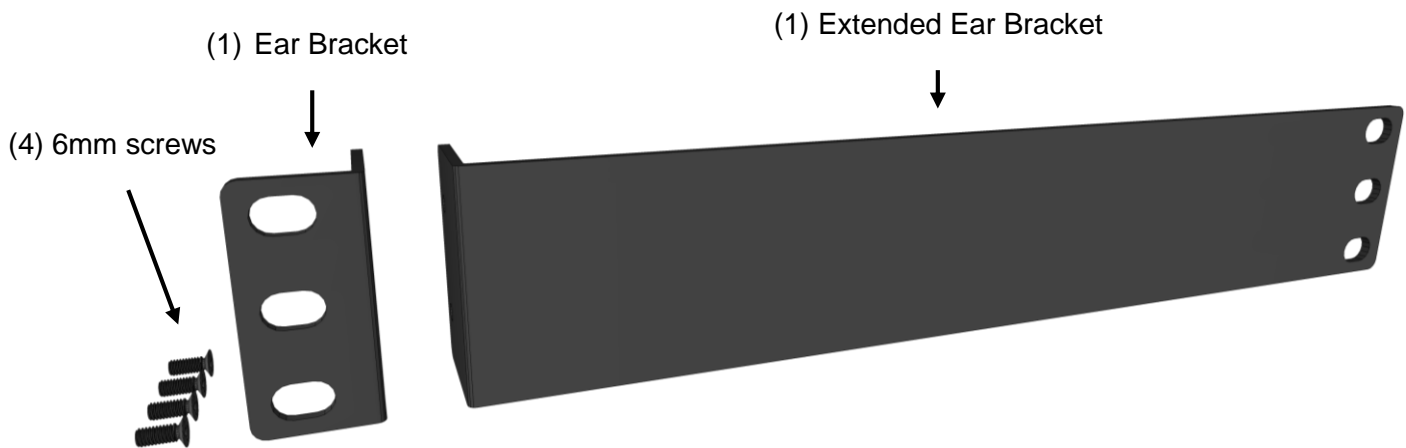


Figure 64 - Cbox L3/S3 Rack Mount Kit with Extended Ear Bracket

Cbox Rack Mount Kit with Extended Ear Bracket (for L3 or S3)

What is included:

1 joint kit (2 pieces):

- (1) ear bracket
- (1) extended ear bracket

1 set of screws:

- (4) 6mm screws

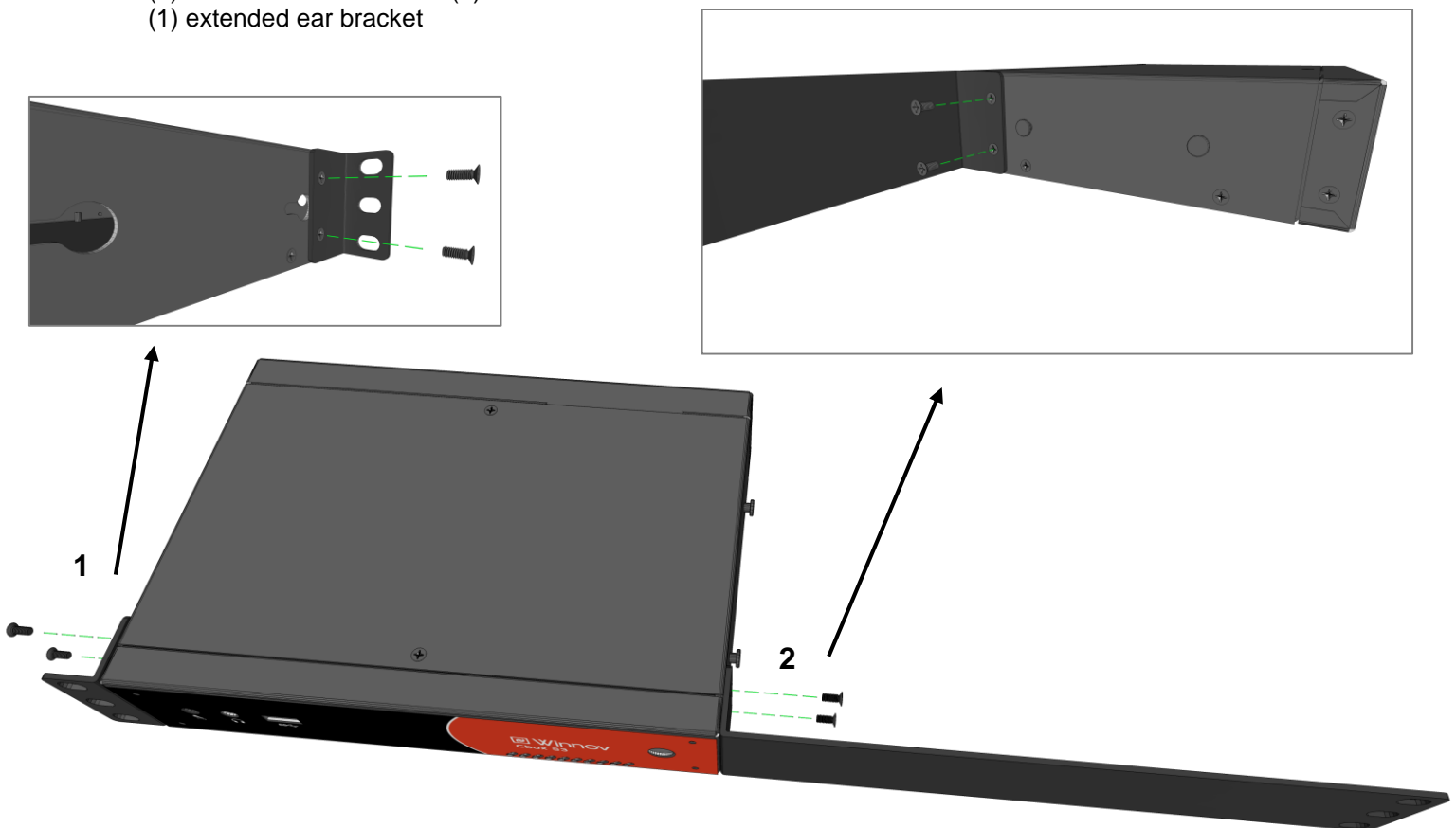


Figure 65 - Cbox L3/S3 Rack Mount Kit – Attaching Brackets

Attaching the Ear Bracket and Extended Ear Bracket to the System:

1. Screw the **ear bracket** to the left side of the system using **(2) 6mm screws**.
2. Screw the **extended ear bracket** to the right side of the system using the remaining **(2) 6mm screws**.

How to mount in a rack:

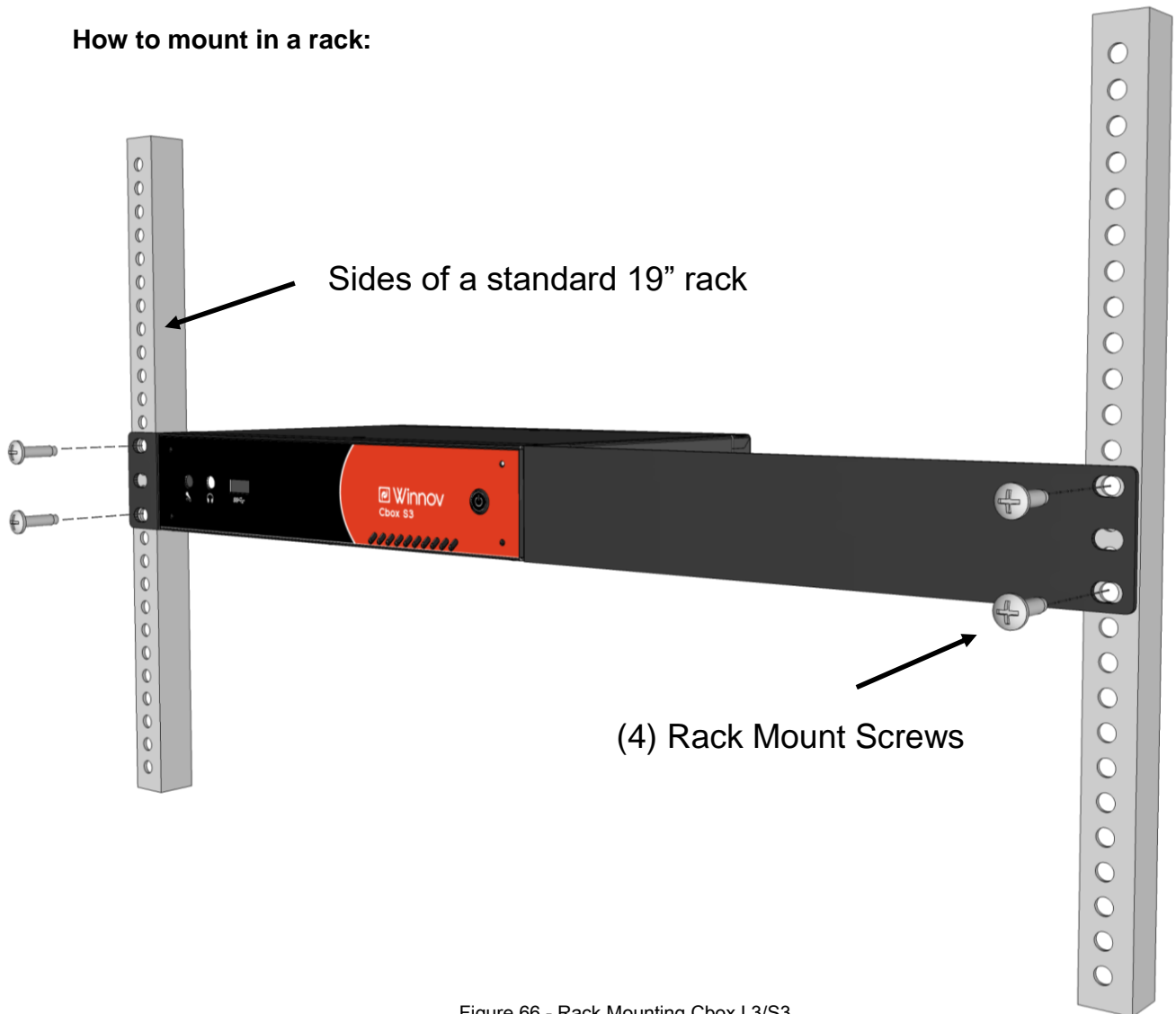


Figure 66 - Rack Mounting Cbox L3/S3



Please note that rack mount screws are not included with Winnov's rack mount kit.

CBOX L3/S3 RACK MOUNT INSTRUCTIONS: SYSTEM + SYSTEM

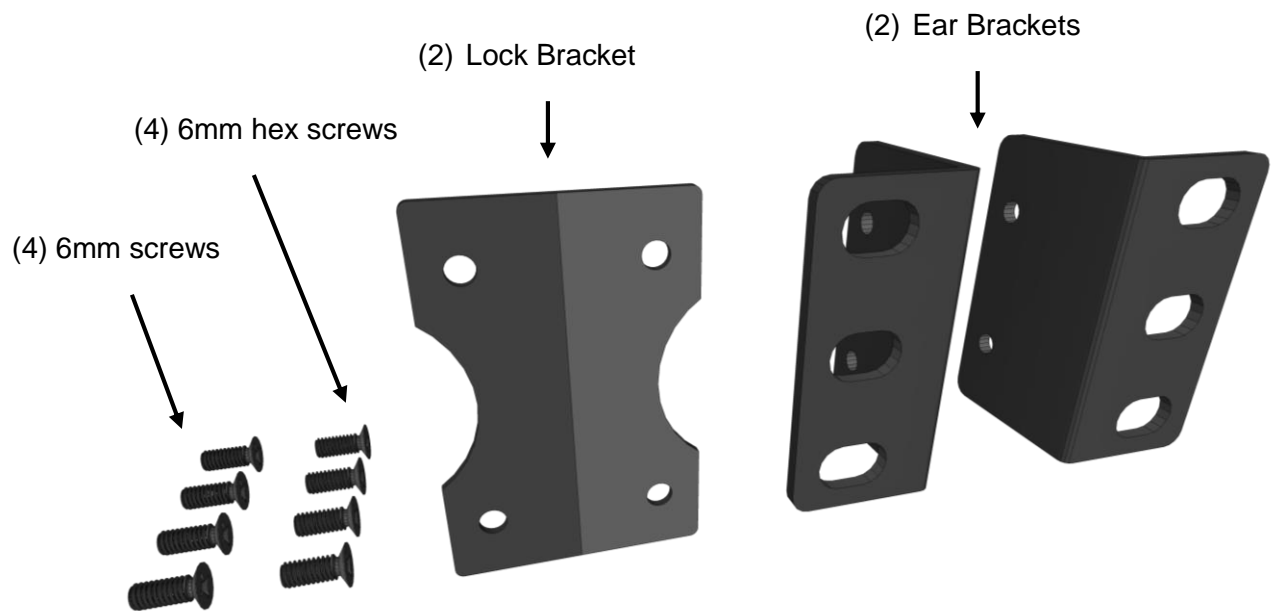


Figure 67 - Cbox L3/S3 Rack Mount Kit with Lock Bracket

Cbox Rack Mount Kit with Lock Bracket (for two L3 or S3 systems)

What is included:

- | | |
|---------------------------------------|---------------------------------|
| <u>1 joint kit (3 pieces):</u> | <u>2 sets of screws:</u> |
| (2) ear brackets | (4) 6mm screws |
| (1) lock bracket | (4) 6mm hex screws |



Please note that the allen or hex key is *not* included with the Cbox rack mount kit

Attaching a System to another System:

1. First, identify and note the location of the **two standoff screws** on the left system (circled in green).

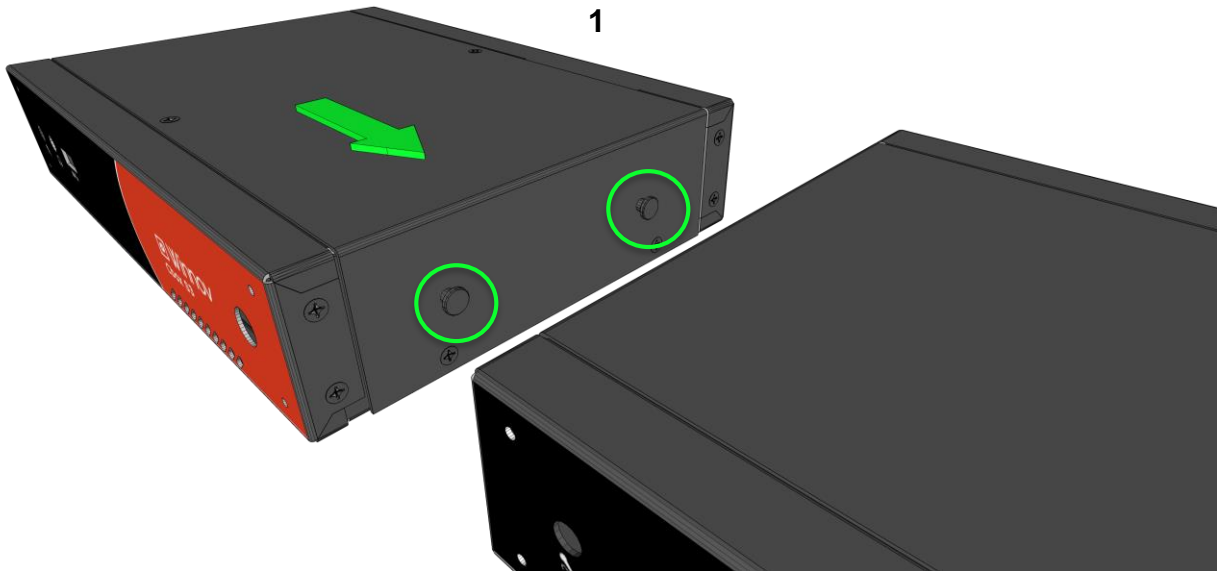


Figure 68 – Cbox L3/S3 – Lock Bracket - Identify Standoff Screws

2. Line up the **two standoff screws** on the left system and insert into the slots of the right system (circled in green).

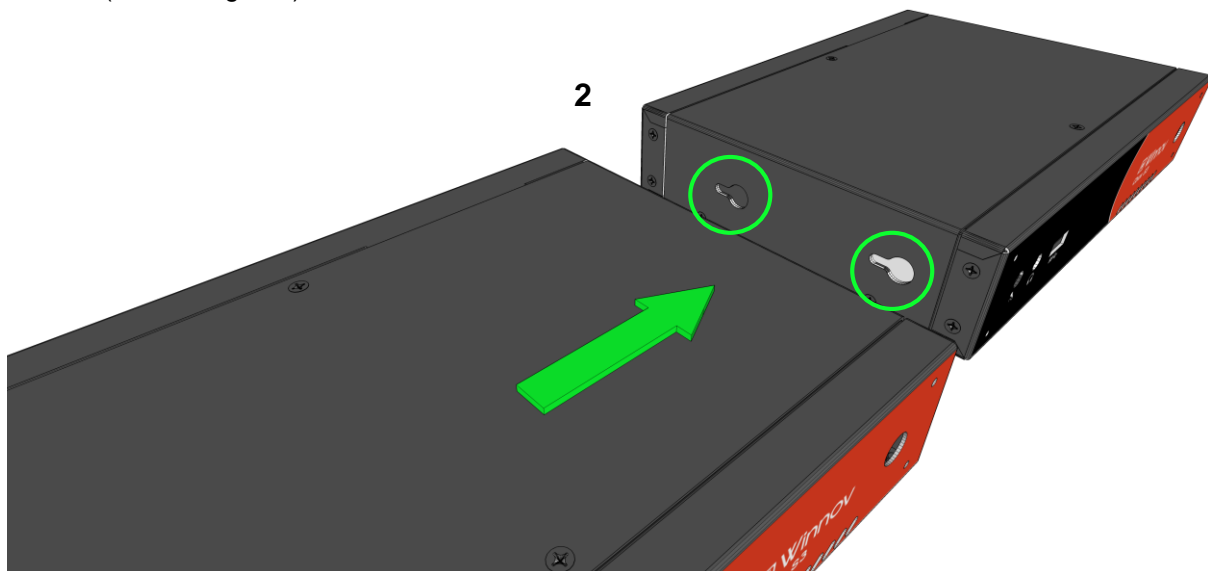


Figure 69 - Cbox L3/S3 – Lock Bracket – Inserting into Slots

3. Once the **standoff screws** are inserted into the slots, slide the left system toward the rear of the right system, locking the two systems together.

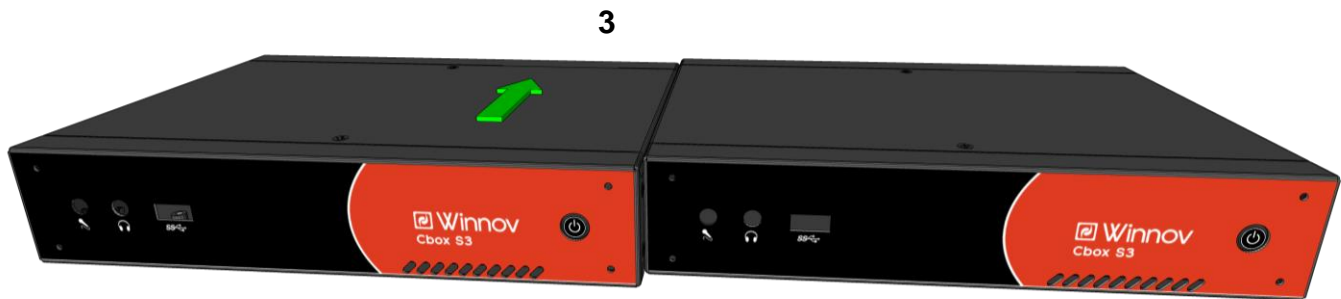


Figure 70 - Cbox L3/S3 – Lock Bracket - Attach Two Systems

4. Align the **lock bracket holes** to right side of the left system and the left side of the right system as pictured below. Using a **2.5mm allen or hex key**, screw **(4) 6mm hex screws** to securely attach the **lock bracket** to the systems.

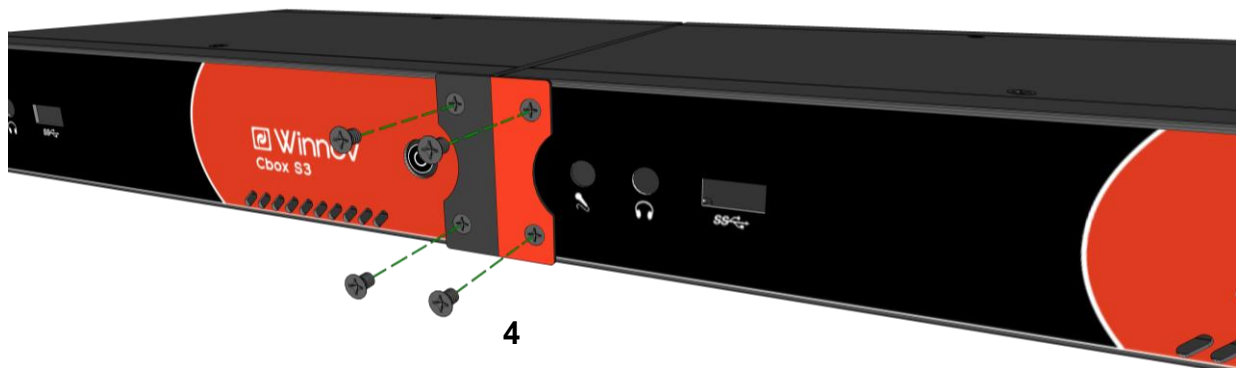


Figure 71 - Cbox L3/S3 – Attaching Lock Bracket to Systems



Please note that the allen or hex key is *not* included with the Cbox rack mount kit

5. Screw the first **ear bracket** to the left side of the system using **(2) 6mm screws**.
6. Screw the second **ear bracket** to the left side of the system using the remaining **(2) 6mm screws**.

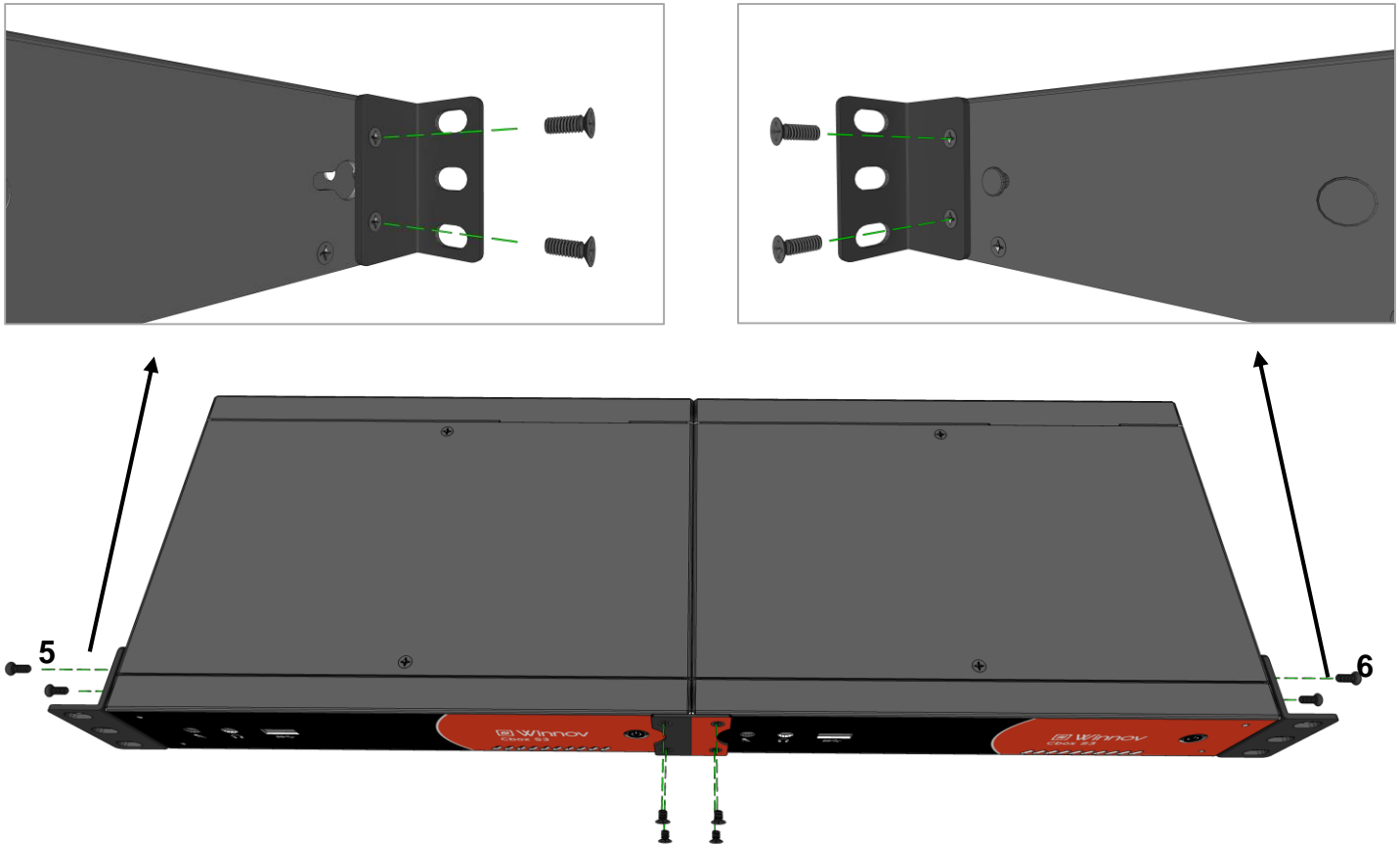


Figure 72 - Cbox L3/S3 – Attaching Ear Brackets

How to mount in a rack:

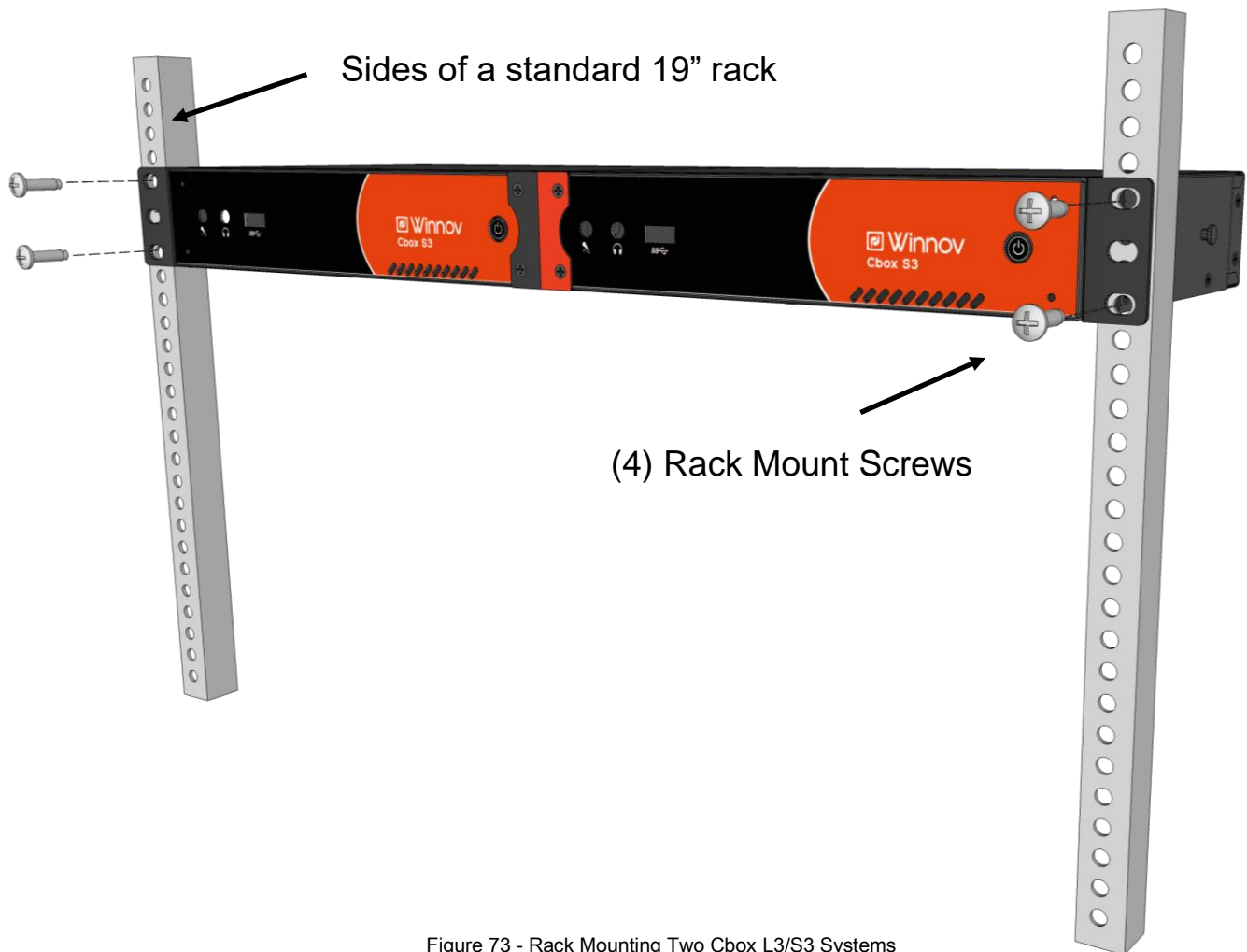


Figure 73 - Rack Mounting Two Cbox L3/S3 Systems



Please note that rack mount screws are not included with Winnov's rack mount kit.

CBOX S3 PLUS RACK MOUNT INSTRUCTIONS: SINGLE SYSTEM

What is included:

1 support tray

1 joint kit (7 pieces):

- (2) ears (marked "L" and "R")
- (2) façades
- (2) joint plates
- (2) handles

1 allen key

2 bag of screws (23 screws)

- (8) big allen screws (4 extra)
- (4) small allen screws
- (4) big countersunk head screws
- (4) small countersunk head screws
- (3) standoff screws

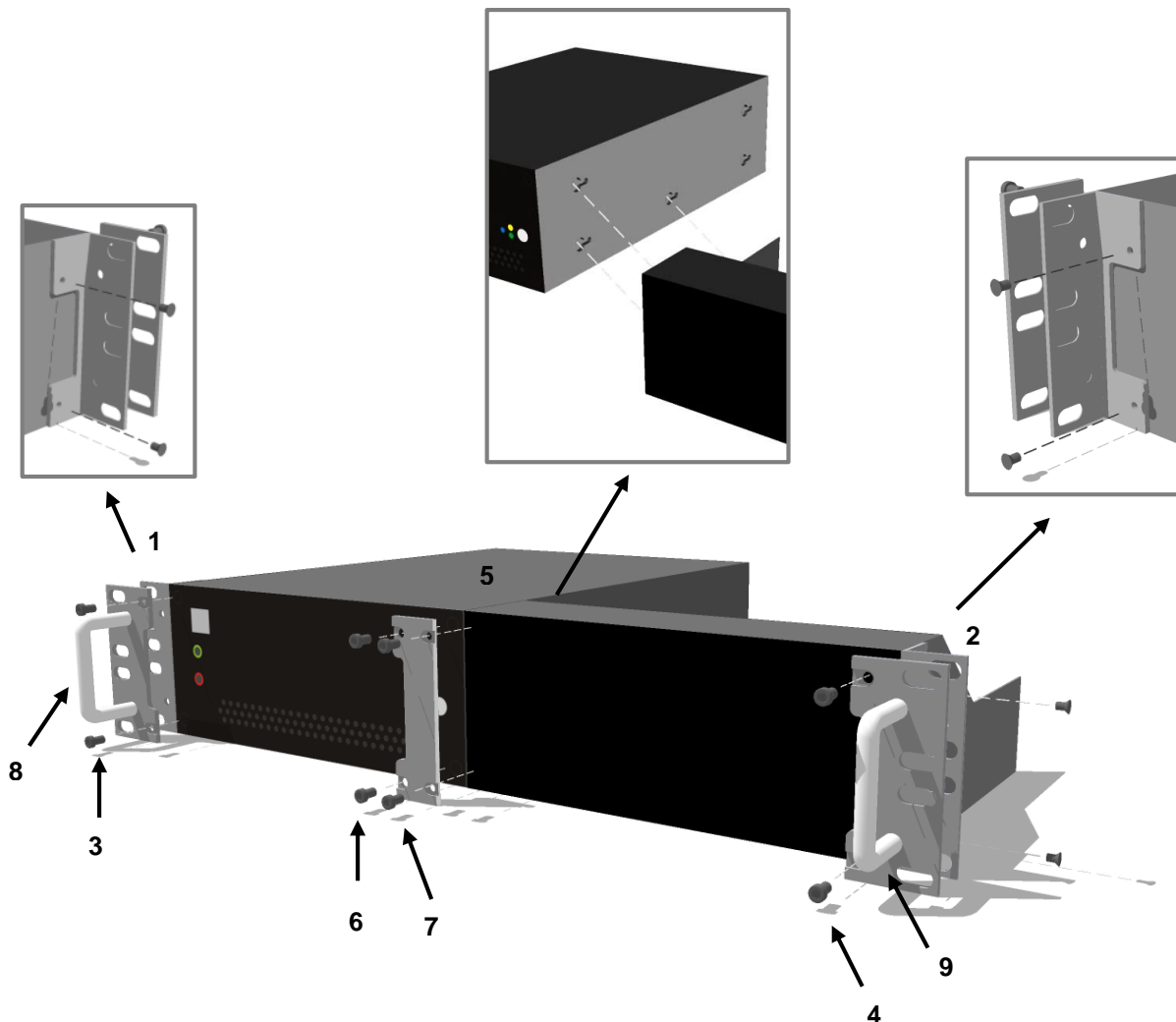
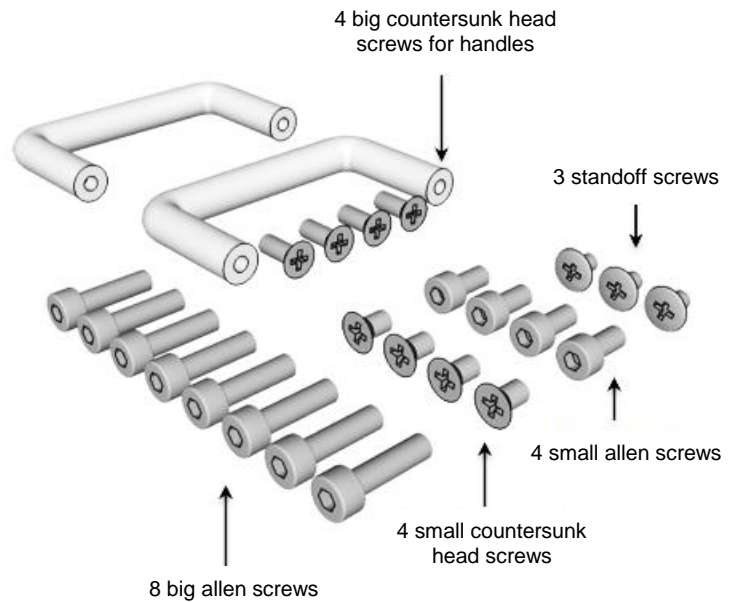


Figure 74 - Cbox S3 Plus – Rack Mount Kit with Support Tray

Attaching the Support Tray to the System:

1. Screw the **left ear** (marked “L”) to the left side of the system with 2 small countersunk screws.
2. Screw the **right ear** (marked “R”) to the right side of the support tray with 2 small countersunk screws.
3. Remove the front left allen screws from the system, then screw the **left façade** to the system with 2 big allen screws.
4. Screw the **right façade** to the tray with 2 small allen screws.
5. Screw 3 standoff screws to the left side of the support tray, then attach the left side of the support tray to the right side of the system by inserting the standoff screws into the holes and sliding the support tray toward the rear.
6. Remove the front right allen screws from the system, then screw the left side of the **joint plate** to the system with 2 big allen screws.
7. Screw the right side of the **joint plate** to the support tray with 2 small allen screws.
8. Line up the handle with the corresponding holes of the **left façade**, then screw 2 big countersunk screws to the rear of the **left ear**.
9. Line up the other handle with the corresponding holes of the **right façade**, then screw 2 big countersunk screws to the rear of the **right ear**.

How to mount in a rack:

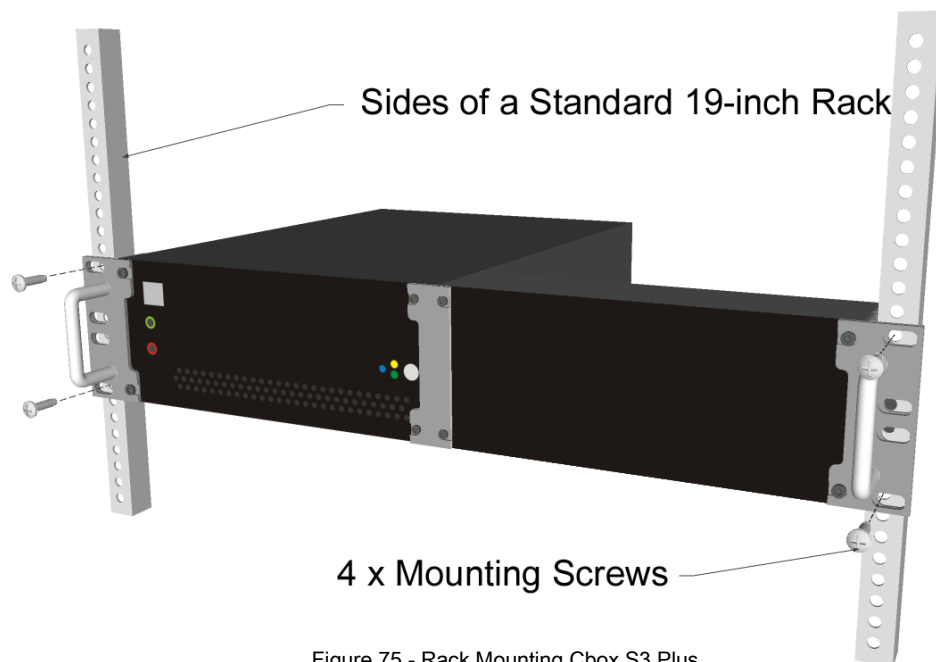


Figure 75 - Rack Mounting Cbox S3 Plus



Please note that rack mount screws are not included with Winnov's rack mount kit.

CBOX S3 PLUS RACK MOUNT INSTRUCTIONS: SYSTEM + SYSTEM

What is included:

1 support tray

1 joint kit (7 pieces):

- (2) ears (marked "L" and "R")
- (2) façades
- (2) joint plate
- (2) handles

1 allen key

2 bag of screws (25 screws)

- (8) big allen screws
- (4) small allen screws
- (4) big countersunk head screws
- (4) small countersunk head screws
- (5) standoff screws

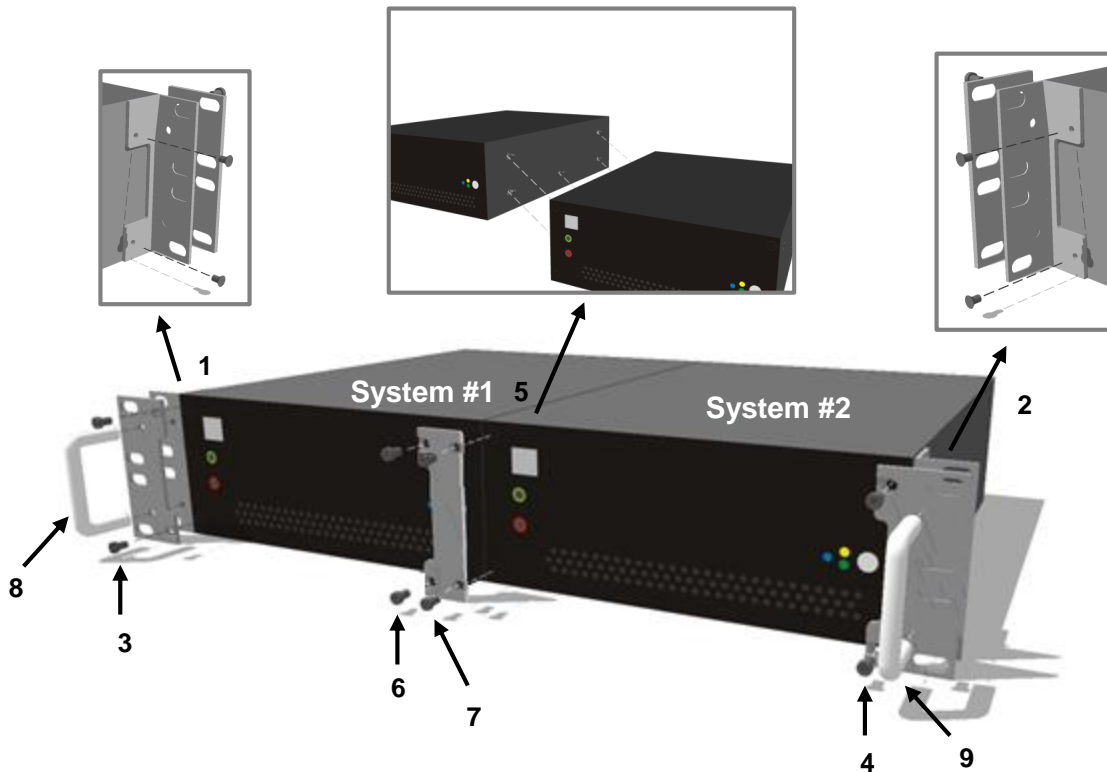
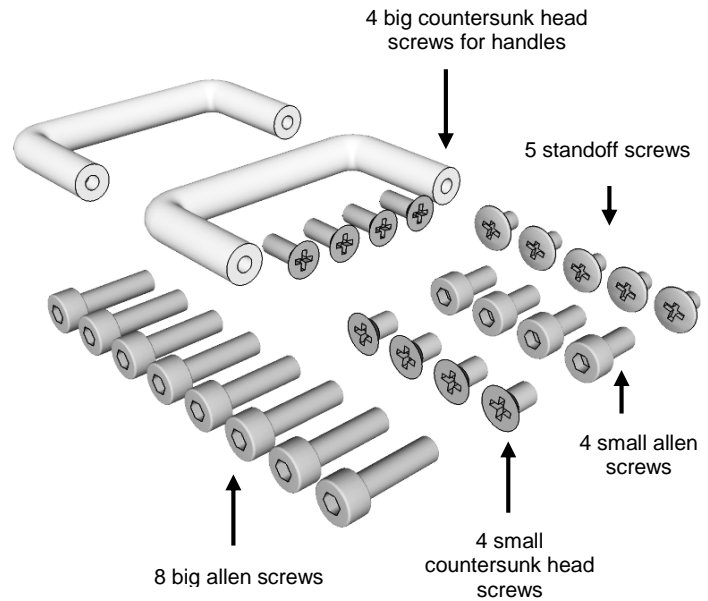


Figure 76 - Cbox S3 Plus Two System Rack Mount Kit



Please note that the System + System rack mount kit includes a support tray but is **not** used when mounting two systems side by side.

Attaching a System to another System:

7. Screw the **left ear** (marked “L”) to the left side of system #1 with 2 small countersunk screws.
8. Screw the **right ear** (marked “R”) to the right side of system #2 with the 2 small countersunk screws.
9. Remove the front left allen screws from system #1, then screw the **left façade** to system #1 with 2 big allen screws.
10. Remove the front right allen screws from system #2, then screw the **right façade** to system #2 with 2 big allen screws.
11. Screw the 5 standoff screws to the left side of system #2, then attach the left side of system #2 to the right side of system #1 by inserting the standoff screws into the holes and sliding system #2 toward the rear.
12. Remove the front right allen screws from system #1.
13. Remove the front left allen screws from system #2, then screw the left and right side of the **joint plate** to system #1 and system #2 with 4 big allen screws.
14. Line up the handle with the corresponding holes of the **left façade**, then screw 2 big countersunk screws to the rear of the **left ear**.
15. Line up the other handle with the corresponding holes of the **right façade**, then screw 2 big countersunk screws to the rear of the **right ear**.

How to mount in a rack:

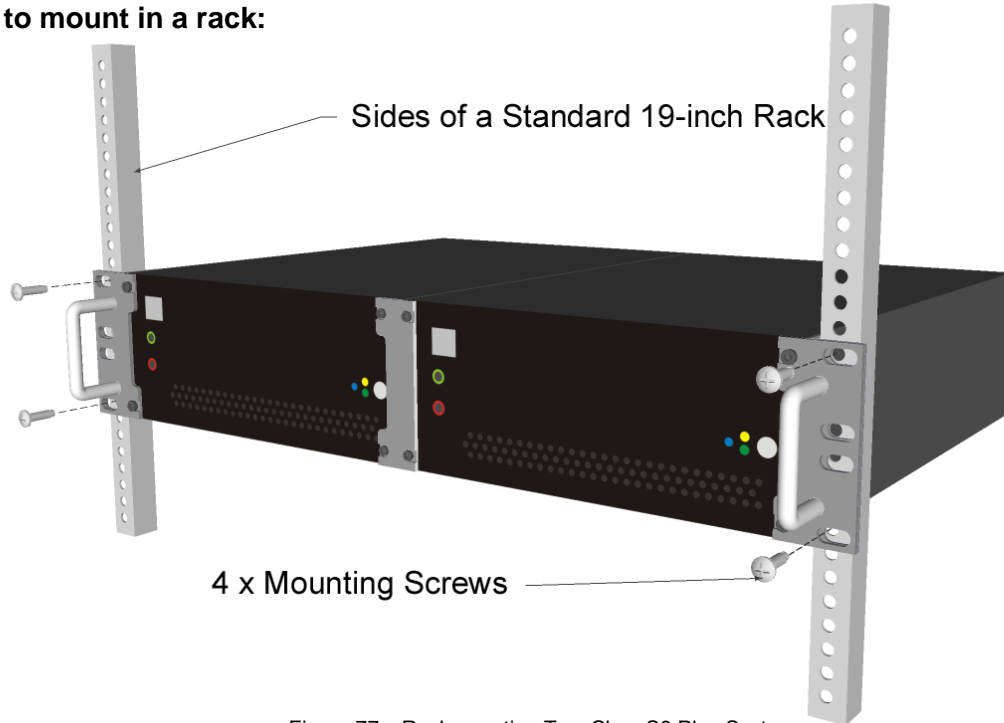


Figure 77 – Rackmounting Two Cbox S3 Plus Systems



Please note that rack mount screws are not included with Winnov's rack mount kit.