



Real-time Audio and Video Streaming

QuickStart Guide

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ABOUT THIS QUICK START GUIDE

This manual will guide you through the basic hardware setup of the XStreamEngine2 TwinTurbo™ appliance. It contains safety and hardware installation instructions.

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P R O D U C T D E S C R I P T I O N

The ***XstreamEngine2*** family is the current generation of turnkey encoding systems designed by Winnov.

XstreamEngine2 systems capture, encode, archive, and broadcast audio and video. XstreamEngine2 systems have built a reputation for reliability and ease of use.

S C O P E O F D E L I V E R Y

- This Quickstart Guide
- 1 x XStreamEngine2 Platform – TwinTurbo
- 1 x Breakout Box
- 1 x DVI/DVI cable 6 feet
- 4 x Adapter RCA female – BNC
- 1 x Adapter S-Video - BNC
- 1 x 19 Inch rackmount bracket
- 1 x Power Cord US 6 feet

SAFETY INSTRUCTIONS

System power:

When the computer is turned off by using the power switch, there still might be power supplied to the motherboard. To ensure that your computer is completely shut down, unplug the computer's power cord from its power source.

The XstreamEngine2 appliance is a completely preinstalled system and there is no need for opening the chassis for adding and removing components. Please contact Winnov regarding any malfunction and failure of XstreamEngine2.



Of course, we cannot inhibit opening the chassis. Therefore please make sure the AC power cord is unplugged before you open the chassis!

Electrostatic discharge (ESD) and ESD protection:

Static electricity can damage disk drives, boards, and other parts. Before connecting or disconnecting any device to the XStreamEngine2 appliance, we recommend that discharge static by touching a metal part of a grounded PC.

INSTALLATION NOTICES

- Do not place the XstreamEngine2 appliance underneath heavy loads or in an unstable position.
- Do not expose the XstreamEngine2 appliance to high levels of direct sunlight, high humidity and wet conditions.

- Do not use or expose the XstreamEngine2 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.

P L A N N I N G

After verifying the accessory items (see the packing list), gather additional items needed for installation:

- Monitor
- Keyboard
- Mouse
- Network cable(s)
- AV Sources
- AV Cables and Adapters

C O N N E C T I V I T Y

Hook up the XstreamEngine2 (Xe2) TwinTurbo system using the following procedure:

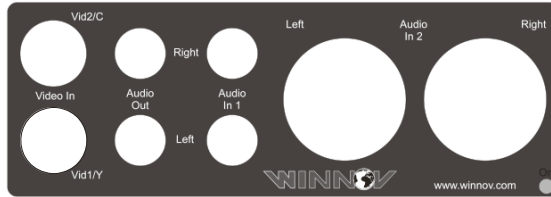
1. If installing on a rack, do the following:
 - a. Affix rack brackets or sliders to the TwinTurbo chassis and place the chassis in the rack.
 - b. Affix the Breakout Box (BOB) to the rackmount BOB bracket and install the BOB bracket on the rack.
2. Connect the Breakout Box (BOB) to the TwinTurbo system using the supplied DVI to DVI connectors.
3. Connect the keyboard, mouse, monitor, network cable(s), and power.

CONNECTING VIDEO AND AUDIO SOURCES

Assembling the BOB

The breakout box can be assembled either as a standalone or attached to a rackmount BOB bracket then mounted onto a rack.

If you DO NOT have a rackmount BOB bracket, simply attach the front panel label to the BOB. The following drawing illustrates the front panel.



If you DO have a rackmount BOB bracket, do the following:

1. Attach the BOB to the rackmount BOB bracket in one of the four positions. Using 2 screws insert them from the bottom of the rackmount BOB bracket into the bottom of the BOB and tighten.
2. The rackmount BOB bracket is designed for 4 BOBs. The following photo shows a rackmount BOB bracket with 4 BOBs.



3. Attach the front panel label to the BOB and attach blank labels to the unused positions.
4. Attach the rackmount BOB bracket onto your rack.

Connecting Video Sources via Breakout Box

This section describes how to connect video sources to your XStreamengine2 via the breakout box (BOB).

1. Attach the A/V Media cable to the DVI connector on the BOB. Carefully align the cable plug with the DVI connector and insert.

Rear Side of Breakout Box



2. Attach the other end of the A/V Media cable to the capture card's DVI connector.

Note: Be careful handling the A/V Media cable and the pins inside the shrouded cable plug. Bending the cable or pins may cause internal damage to the signal wires and/or shielding wires and result in A/V signal quality degradation or complete signal loss.

3. Attach your video and audio sources to the BOB.

Front side of Breakout Box



Vid1/Y, Vid2/C, Vid3/C, Vid4/Y

All inputs can be used as independent composite video inputs. With the help of an adapter cable (2 x BNC to 4pin MIN DIN) two paired inputs will together build an S-Video interface.

- Vid1 and Vid2 build together S-Video Input Vin-Y/C1.
- Vid3 and Vid4 build together S-Video Input Vin-Y/C2.

Audio Out (balanced)

The audio output can be used for monitoring purpose as input for a professional amplifier. The balanced audio output amplifier supports an impedance > 600 OHM.

Audio IN 1 and Audio In 2 (both are balanced inputs)

Both inputs are used to connect to audio sources which do not require a pre-amplifier.

Note: It is recommended using balanced audio equipment to guarantee the best audio quality. However unbalanced audio devices are also supported.

FIRST TIME USE

Once TwinTurbo is physically connected, do the following to activate the system:

1. **Automatic Creating Backup Image** - Power on the system. The first time you start TwinTurbo, appliance, you will see a message that says “Acronis True Image¹ Loading...” This message indicates that a backup image is going to be created for your appliance. It will take a few minutes for this process to complete. Completion is marked by an automatic reboot.
2. **Microsoft Windows Mini-Setup** – After the reboot following the backup process, Windows mini-setup will run. The mini-setup will prompt you to:
 - a. Read and accept the EULA (End User License Agreement)
 - b. Enter a Windows product key (The Windows registration key is found on a label stuck to the side of the TwinTurbo.)
3. The Mini-Setup procedure will ask you to enter administration user account and the computer name. Keep your assigned username and password in a safe place. If you are not going to be the administrator, for this system, we suggest you to consult the administrator before completing the mini-setup. Once the mini-setup is complete, the appliance will automatically reboot.

¹ Acronis True Image is a complete disk imaging, system disk backup and restore solution.

4. Once Windows starts, your appliance is ready to be used, but we highly recommend that you do the following after logging into Windows:
 - a. Install all available Microsoft updates through Windows Updates.
 - b. Check for updates for the anti-virus software (F-Prot) and if necessary, do the updates.
 - c. Active Windows
 - d. Double click on the XE2 Updates icon on the desktop to see if there are any new updates. If new updates are available, follow the instructions and do the update.

5. Double click on the Xe2 DRX™ desktop shortcut.
6. Logon to the DRX utility.

Login: **Administrator**

Password: **admin**

7. Once you are have logged into the DRX main menu, look for the blue question mark located at the top right corner of the interface. Double click on it and study the content.

8. Add the first stream

9. Access the Control Stream Sources menu to check the source connections.

10. Activate the stream.

11. View the stream's parameters and setting or archive the stream.

CONNECTING REMOTELY

The Xe2 TwinTurbo system is DHCP enabled by default. If TwinTurbo is connected to a network with a DHCP server, an IP address should be assigned to it automatically.

To connect:

1. Double click on the Xe2 desktop shortcut. This utility displays your system's IP address.
2. From a remote system on the same network, open a browser and navigate to the IP address of your Xe2 system.

TECHNICAL SPECIFICATIONS

XStreaEngine Platform TwinTurbo®	
Video/Audio Capture	Up to 4 composite or up to 2 S-Video input signals and 2 stereo balanced audio input signals
Ports	4 x USB 2.0 ports
Network Connection	Dual 10/100/1000 based (RJ-45) Ethernet
Chassis	19" 1U
Power Supply	Dual input voltage (110V/220V)
Operating System	Microsoft Windows Server 2003

Composite Video Inputs 1 to 4	
Type:	composite Video
Connector:	BNC Receptacle
Max Input Level:	1V(p-p)
TV Standard:	PAL, NTSC
Max Resolution:	720x480 (NTSC) 30 Frames/s 768x576 (PAL) 25 Frames/s
Label Video Input 1:	Vid1/Y (S-Video [Y] input when paired with Input 2)
Label Video Input 2:	Vid2/C (S-Video [C] input when paired with Input 1)
Label Video Input 3:	Vid3/Y (S-Video [Y] input when paired with Input 4)
Label Video Input 4:	Vid4/C (S-Video [C] input when paired with Input 3)

Audio Input 1	
Type:	Stereo, balanced

Connector:	2 x Stereo Phone Jack ¼"
Max Input Level:	18.3dBu (6.4Vrms)
Volume Control:	-34.5db to +34.5dB
Label Audio Input 1:	Audio In 1 (Right, Left)
Internal Attenuation:	10dB
Audio Input 2	
Type:	Stereo, balanced
Connector:	2 x XLR JACK
Max Input Level:	18.3dBu (6.4Vrms)
Volume Control:	-34.5db to +34.5dB
Label Audio Input 2:	Audio In 2 (Right, Left)
Internal Attenuation:	10dB
Audio Output	
Type:	Stereo, balanced
Connector:	2 x Stereo Phone Jack ¼"
Max Output Level:	10dBu (2.48Vrms)
Volume Control:	-46.5db to +0dB
Label:	Audio OUT

TECHNICAL SUPPORT AND DRIVER UPDATES

The latest drivers, utilities, and documentation are available at Winnov's support website at www.winnov.com . For technical support, send email to support@winnov.com

SALES

Purchase or obtain information on other products, contact your local computer dealer or Winnov sales at the following addresses:

- Email: sales@winnov.com
- Phone: 408-207-4400
- Fax: 408-562-9183
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