

Attention:

**Please make note that in order to fully protect
Your recordings we ask you to eject your USB
Thumbdrive before you take it out of your DXP
Command module.**

**If you do not follow this step some of your
Recordings could be corrupted and will not play**

To Eject USB from DXP command module.

1. Hit enter on the “Play/Browse”
2. With the highlighted portion over the USB press the small orange symbol that looks like a person doing jumping jacks to the lower right of the arrows on the remote.
3. A menu screen will come up with multiple options.
4. Scroll down and press enter on “Eject”
5. Will take you out of that screen and you will see the USB option is no longer on the screen
6. Pull your USB out.
7. *In order to re-insert your USB you must restart the command module*



Digital Xpress Plus

User Manual

1 YEAR WARRANTY

Alliance Technology, LLC warrants to the first purchaser that should any of its products prove to be defective in material or workmanship in normal use, within one (1) year from the date of delivery, Alliance Technology, LLC will, at its exclusive option, repair, replace or exchange the product or any of its parts.

THIS WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS:

1. This warranty does not apply to any product which has been subject to accident, negligence, alteration, abuse, misuse, overload, repair by anyone other than Alliance Technology, LLC or its authorized representatives, or not maintained in accordance with the manufacturer's suggested maintenance schedule.
2. This warranty applies only to components manufactured by Alliance Technology, LLC. The appropriate manufacturer's warranty, if any, shall apply to components not manufactured by the company.
3. This warranty does not apply to flex-link connectors, rod, LED light rings, cable, rollers, o-rings, and skids, or other parts, which are considered consumable. The replacement of these items is part of normal product maintenance.
4. This warranty shall not apply if the products are used or operated in any manner not consistent with their intended purpose.
5. This warranty is limited to repair or replacement of defective products and parts during the warranty period, and shall be the exclusive remedy. Alliance Technology, LLC shall in no event have any other obligation or liability of any nature arising from the breakdown, malfunction, defect or other failure of the product, including, without limitation, any liability for service, maintenance, repairs, personal injury, property damage, loss of profits, loss of use or other consequential damages.
6. Any action for any claimed breach of this warranty shall be brought within one (1) year from the date of delivery of the product.
7. The purchaser must return the defective product, part or component to the Alliance Technology, LLC factory in Saukville, WI 53080 at the purchaser's expense, properly and adequately packaged, with insurance and transportation pre-paid. Alliance Technology, LLC will either repair or replace the defective product, part or component, at its option, and will return it to the purchaser at the customer's expense. In no event shall Alliance Technology, LLC be liable for delay in repair or replacement and return under this warranty. Alliance Technology, LLC will endeavour to effect appropriate repairs in the shortest time practical, with respect to the customer having beneficial use of their equipment.
8. Alliance Technology, LLC neither assumes nor authorizes any person to assume any other liability or make any other warranty in connection with the products.
9. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. ALLIANCE TECHNOLOGY, LLC EXPRESSLY DISCLAIMS ANY OTHER WARRANTY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

SYSTEM MAINTENANCE REQUIREMENTS

The following maintenance procedures are recommended for all Insight-Vision Xpress systems. Standard warranty policy dictates that components and accessories subject to wear and tear are not covered under the One (1) year warranty. Therefore we are strongly recommending that all systems be maintained according to the following procedures. Please be advised that Insight-Vision will not allow warranty coverage for these items if these procedures are not followed.

Digital Xpress Memory Card Recorder: Due to the adverse conditions that the DX experiences during use, Insight Vision strongly recommends that the cleaning procedure described below be performed for every 5 or 6 hours of use.

WARRANTY REPAIRS WILL NOT BE GRANTED FOR DAMAGE CAUSED BY DIRTY DVD PLAYERS AS THIS IS A RESULT OF USE AND NOT MANUFACTURERS DEFECTS.

Cleaning Procedure: Insert a DVD Laser Lens Cleaner disc into the IV1200 Command Module and run the cleaning process once or twice to clean the recorder.

Please note that the DVD disc that was originally experiencing problems may have permanent errors as a result of the dirty recorder. Starting a new disc may be necessary.

These cleaning DVDs are available at Wal-Mart for \$6 - \$7. Phillips, Memorex, and Maxell are some of the brands that Insight Vision recommends.

O-Rings: O-rings are critical to insure watertight integrity of the camera and connection areas. O-rings are subject to wear and tear and can also suffer failure due to age and other factors. They should be inspected regularly and replaced whenever needed.

When O-rings are working properly, a small amount of water and sometimes fine particles of grit will build up behind them. Any time the camera or sonde connection is taken apart and exposed, there exists the risk of grit wearing down or possibly even tearing the o-ring. It is also possible for water to then enter the slip-ring area once exposed. All connections, once opened or exposed, MUST be thoroughly cleaned and dried before re-connecting. We recommend using an old toothbrush or other soft bristled brush to clean the o-ring areas and remove the grit or fine debris. Then, dry the area around the o-ring and pogo pins and slip area completely before re-connecting.

Camera Head: The camera head area, especially around the front light window, is an area that is subject to wear and tear. Insight-Vision has provided a small and large protective skid that MUST be used at all times. These skids are designed to aid in the centering of the camera head and have the added benefit of helping to protect the camera head from extreme wear. Failure to use the provided skids will result in direct wear to the front light ring area of the camera, resulting in the eventual cracking of the light ring protective cover and allowing water to ingress into the camera head. This is not a warranty repair.

Push Rod: The design of the horizontal push reel/coiler and the counter mechanism allow for the push rod and camera head to be stored inside the coiler. The proper storage technique is store the camera head inside the basket.

At Insight-Vision our goal continues to be focused on providing one of the highest quality, best designed and user-friendly systems offered on the market. We also realize that all we do will amount to nothing without satisfied customers. We ask that you continue to work with us to help evolve our product into one of the absolute best portable systems available. We are always open to constructive ideas that will help us move forward with any or all of our products.

We also ask that you do your part in this relationship by striving to properly maintain and take care of your camera system just as you would an automobile or any other tool. It is a proven fact that any item that is properly maintained will last much longer and provide a much greater opportunity for a good return on investment.

Sincerely,

The Management at Insight-Vision

Digital Xpress *Plus* Command Module

The Digital Xpress Plus Command Module allows real time viewing of a camera image on an LCD flat panel screen. The advanced features of the Digital Xpress Plus Command Module provide recording and playback of camera images, audio commentary. Text writer capabilities using optional external components.



SYSTEM CAPABILITIES:

The Digital Xpress Plus Command Module features an on-screen display for deployed cable length in feet and meters with the optional distance counter. The operator control provides control of the display location as well as zero reset.

CAMERA illumination controls are featured prominently on the operator control for easy operator access.

An integral MICROPHONE for audio commentary on the internal digital recording devices is conveniently integrated into the operator controller.

An integral SPEAKER with 5 volume settings for audio playback from the internal digital recording devices is featured on the operator control.

Connections for an optional text writer are included on the rear of the Command Module.

External video and audio output jacks are included for connection to optional display or recording devices.

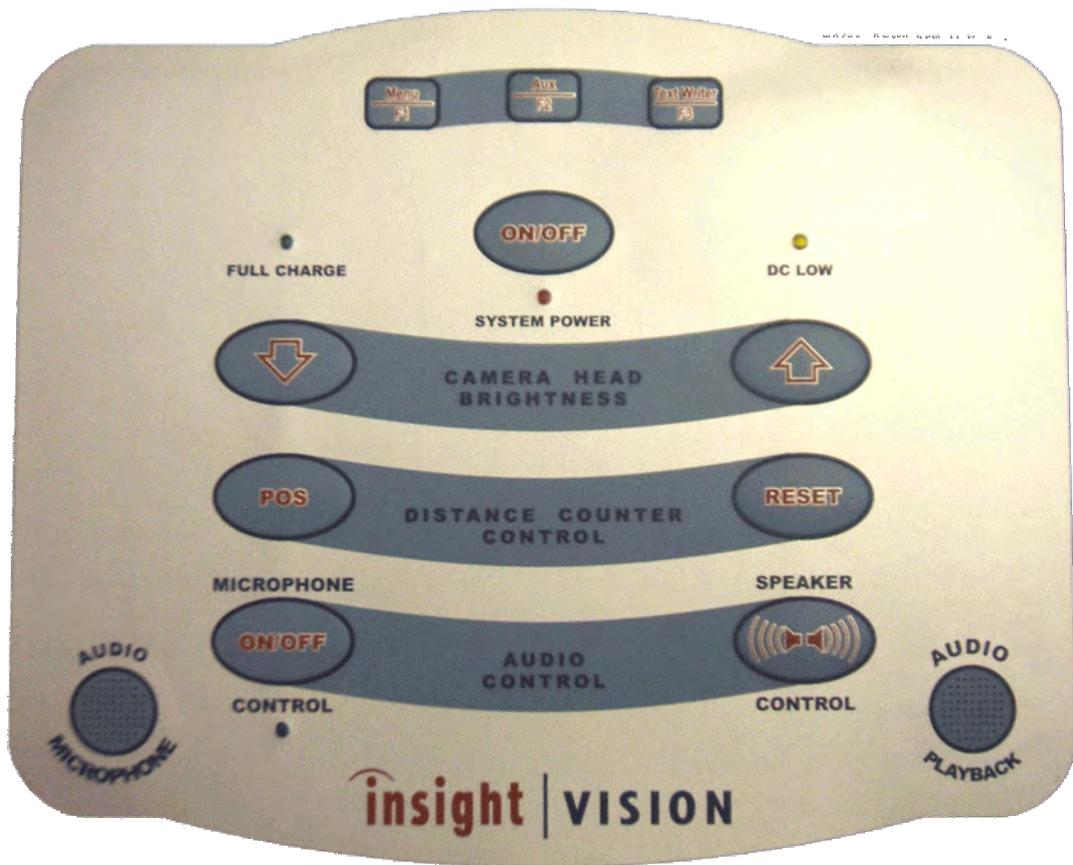
Power options include a DC POWER input from 13.8-15VDC vehicle accessory socket (cigarette lighter socket) or 110/220VAC 50/60Hz power supply.

Aux. DC input NOT for charging system. Only powering or running system.

Operator flexibility is enhanced with the internal BATTERIES for up to 4 hours of operation.

SYSTEM OPERATION

Open the LCD Flat Panel Lid on the Digital Xpress Command Module and position the screen for best viewing angle. The Lid is used to protect the operator control area when not in use. The Operator Control Buttons are prominently featured and are easily accessible on the large water resistant keypad.



To turn the unit on, press the POWER button. The unit is on when the RED LED light is illuminated. Video will be displayed on the LCD Flat Panel screen.

System configuration information is saved automatically from one session to the next. However, the system can be reconfigured at any time. If the system is reconfigured, the distance counter is zeroed. Since system configuration also affects the size of the voltage steps made in controlling camera brightness, camera head brightness keypad buttons will not function unless the system is first configured.

If the unit does not turn on, please verify that the internal battery has been charged or connect the unit to a 13.8-15VDC or 110/220VAC power source or aux battery.

If the unit does not turn on after charging the unit or connecting the unit to a 13.8-15VDC or 110/220VAC power source, please contact an Authorized InsightVision Service Center.

If the unit turns on but no video is displayed on the screen, please reference the “USER TROUBLESHOOTING GUIDE” in this manual.

Verify that the Digital Xpress Command Module is receiving adequate power by verifying the YELLOW LED is not illuminated or flashing. If the YELLOW LED lights up it may mean the system is indicating a low power condition of either the built-in internal batteries or an external power source (i.e. low battery on a vehicle).

Blink Pattern:

The yellow DC low LED is utilized as a short circuit indicator. When system power levels are nominal, a slow flash is used to indicate that a short has been detected. If the system is in low power mode and the DC low LED is already flashing quickly, a short circuit condition is indicated by blanking approximately every fifth blink. The combination situation will thus evoke the pattern: blink, blink, blink, blink, off, blink...this cycle will repeat approximately every two and a half seconds.

DC Low (yellow)

Off – power levels normal

Slow Blink – short circuit detection

Fast Blink – low power

Interrupted fast blink – low power and short circuit detection

On (steady) – shutdown condition (shutdown will occur in 30 seconds)

YELLOW LED is illuminated or flashing *without an external power source connected.*

A flashing YELLOW LED indicates the internal battery is low and will need to be plugged in or recharged within _ hour.

As soon as it is convenient, connect the unit to a 13.8-15VDC or 110/220VAC power source. When connected to an external supply, the batteries will recharge and the GREEN LED will flash indicating the batteries are charging. BATTERIES ARE FULLY CHARGED WHEN GREEN LED IS ILLUMINATED AND NO LONGER FLASHING.

An illuminated YELLOW LED indicates the internal battery is extremely low and will shut down within 30 seconds.

Immediately connect the unit to a 13.8-15VDC or 110/220VAC power source. When connected to an external supply, the batteries will recharge and the GREEN LED will flash indicating the batteries are charging. **BATTERIES ARE FULLY CHARGED WHEN GREEN LED IS ILLUMINATED AND NO LONGER FLASHING**

YELLOW LED is illuminated or flashing *with an external power source connected*.

A flashing YELLOW LED indicates the external power source is low. The advanced Digital Xpress Plus Command Module may continue operating indefinitely in this state as long as the power level does not decrease further.

An illuminated YELLOW LED indicates the external power source is low and the Digital Xpress Plus Command Module will shut down within 30 seconds.

Immediately disconnect the Command Module for the external power source. Reconnect the unit to an adequate 13.8-15VDC or 110/220VAC power source.

When connected to an external supply, 13.8-15VDC or 110/220VAC power source, the batteries will recharge and the GREEN LED will flash indicating the batteries are charging. **BATTERIES ARE FULLY CHARGED WHEN GREEN LED IS ILLUMINATED AND NO LONGER FLASHING.** We recommend leaving the Digital Xpress Command Module plugged in overnight for a full charge.

The green flashing or steady light will only be visible when the unit is on. However, the unit does charge if plugged in with the unit off.

The unit will charge when plugged in while operating the unit.

Verify the camera image is displayed on the LCD screen.

If the camera image is not displayed on the screen, please verify all connections are made and are tight or turn to the “USER TROUBLESHOOTING GUIDE” in this manual.

Verify the distance counter is at “0000.0f”. If necessary, press the RESET button to zero out the counter. Press the POS button to position counter in desired screen location.

Verify the operation of the camera led light intensity controls by pressing the UP and DOWN arrows.

Due to the advanced auto-iris feature, we recommend setting the light intensity controls to maximum.

If the LED's are not illuminated or are otherwise malfunctioning, please reference the "USER TROUBLESHOOTING GUIDE" in this manual.

KEYBOARD OPERATION BUTTONS

Special function keys:

- F1: main menu page
- F2: aux spotlights (on/off)
- F3: textwriter page scroll (repeated press will scroll through each of the textwriter pages)
- F4: page 1: textwriter – camera page
- F5: page 2: textwriter – header form
- F6: page 3: textwriter – location form
- F7: page 4: textwriter – notes page
- F8: page 5: menus – main menu page

ESC: clean screen (can also be accomplished using function key for that particular page)

Recording:

The Nueros OSD has a small amount of local memory built in. It is advised to use at least a 1gig memory device to record longer video.

NOTE: Larger storage devices can take several minutes to scan at startup. If it seems “frozen” on the last screen at boot up wait a short while and the main menu will appear.

To set the default recording location do these steps. Be sure to have your recording media in the recorder.

1. Go to “SETTINGS” on the main Neuros Osd menu and press “ENTER” on the remote.
2. Use the arrows on the remote to navigate to “DEFAULT RECORDING” and press “ENTER”.
3. Use the arrow buttons on the remote to move down one line to “SAVE TO”. The “EDIT” icon will turn white. Press “ENTER”.
4. If “No items to list” appears, press the left arrow button on the remote.
5. It should say “SHORTCUTS, USB(if installed), SD or COMAPCT FLASH(if installed) and NETWORK.
6. Arrow down to “USB, COMPACT FLASHect” to choose the storage location.
7. Press “ENTER” when the device you want to use is highlighted.
8. This will return to the “ADVANCED RECORDING SETTINGS” menu. Your device should be listed to the right of “SAVE TO”.
9. Arrow down until “SET AS DEFAULT” is highlighted and press “ENTER”.
10. When the message “Sucessfully set parameters as default” appears press “ENTER” again. Waiting a short while will also return to the “ADVANCED RECORDING SETTINGS” menu.
11. Press the left arrow button on the remote to return to the main menu.
12. Your Nueros OSD is now configured to record to the device you selected and will be the default recording location until reconfigured.
13. If the media type is switched (i.e. usb to compact flash) follow these steps to configure the new save location.

The file name may also be set in the “ADVANCED RECORDING SETTINGS” menu. Highlight the “EDIT” icon to the right of “FILE NAME” and press “ENTER” to rename the file if you wish.

Thank you for purchasing a Neuros OSD, the device that lets you digitally store and easily access your DVD’s, VHS tapes, home movies, and TV shows.

Part 1 - Overview

Purpose of this Abbreviated User's Guide

This Abbreviated User's Guide is provided to: (i) give you a brief overview of the OSD and its capabilities; (ii) show you how to connect your OSD; and (iii) teach you a few basics of how the on-screen menu system works on your OSD. Once you have your OSD connected and know these basics, the OSD's on-screen menu system should guide you through everything else you may need or want to know.

Free Firmware Upgrades

Your Neuros OSD already does everything it was advertised to do – and more – but we're not stopping there. With the help of our rapidly growing worldwide community of users and open source developers, we will continually update the OSD with exciting new features and applications. We make these new capabilities available to you via regular "firmware" upgrades (Note: firmware is just a fancy name for the software that is loaded onto the OSD). These upgrades are free and can be done in minutes by users of any level (see Part 6 – Upgrading the OSD Firmware).

User's Manual

The OSD, itself, should guide you through what you'll want to do. However, a more detailed User's Manual with FAQ's is available at: <http://www.neurostechnology.com/support>
The User's Manual is updated with each new firmware version, so be sure to use the User's Manual corresponding to your firmware version. If for some reason you choose not to keep your firmware upgraded to the latest version, archived copies of older firmware versions are available as well.

Main Functions

Video Recorder - Record video in standard MPEG-4 formats from any device with standard (i.e. not High Definition) video outputs such as DVD players, Satellite receivers, Cable boxes, VCRs, DVRs, etc. to virtually any USB storage device (external hard drives, iPod™, PSP™, etc), any major memory card (SD, MMC, Memory Stick; Compact Flash, microdrive), or directly to your computer or network attached storage.

Video Player - Play recorded, downloaded, and streamed video (including YouTube) on your TV from USB storage devices, memory cards, computer/home network, and the Internet.

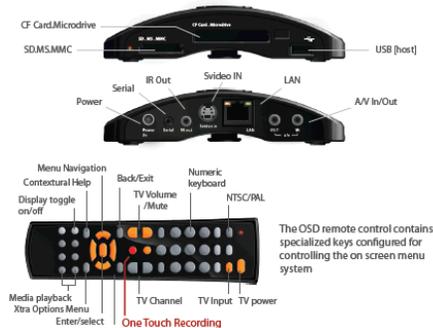
Music/Audio Player - Play music, podcasts, and other audio files directly on your stereo from your from memory cards, USB devices (MP3 players, external hard drives, etc), computer/home network, and the Internet.

Photo/Image Viewer - View photos and other images on your TV from USB devices (external hard drives, digital cameras, etc), memory cards, computer/home network, and the Internet (Note: Internet photo viewing may require a firmware upgrade).

Audio Recorder - Record audio in standard MP3 and AAC formats from any audio source to any major memory card (SD, MMC, Memory Stick; CF, microdrive), virtually any USB storage device (iPod™, external hard drives, PSP™, etc), or directly to your computer/home network (Note: may require firmware upgrade).

Charging/Docking Station - The OSD will charge most USB devices that are plugged into it, so you can use it as a docking station for your iPod™ and other portables even while recording to or playing back from them.

Sharing - The OSD has features to make it easy for you to share non-copyrighted content from the comfort of your living room. Look for more features to be added over time (Note: may require a firmware upgrade).



Included accessories

Two RCA Composite A/V cables (red, white and yellow plugs)
 Universal power supply (110 to 240 V)
 IR blaster
 Stand

IR remote (two AAA batteries included)

Note: some versions may also include a serial cable. If yours does not, and you are a developer and want one, please visit <http://www.neurostechnology.com/support> to request one.

Note Also: some non-U.S. versions may also have RCA-to-SCART adaptors.

Part 2 – Connecting the OSD

If you can set up a VCR, you can set up a Neuros OSD. In fact, the set-up is so easy and the OSD is so compact you can take it with you on trips or to a friend's house if you want.... On the other hand, the OSD looks great as a part of your entertainment center, is silent, has no moving parts, and automatically passes through any audio or video input signal to your TV when it's not in use recording or playing anything or being accessed with the remote, without any signal degradation. The OSD is turned off by unplugging it (there is no "Off" button), but, since it consumes virtually no power in pass-through mode, there is never any reason to unplug your OSD unless you want to take it with you.

2A. Connecting to Power

1. Connect the included power supply to the wall.
2. Plug the other end into the 5V power input jack on the right side of the OSD.
3. The dim green light on the top/left side of the OSD should

turn on. The OSD power supply is universal (this means it will work with any voltage between 110V and 240V).

Note: Power plug adapters may be required for use in countries outside of the intended one and are not included.

2B. Connecting to TV

You control the OSD using the included remote control and an on-screen menu that the OSD displays on your TV. Connecting the OSD to the TV allows you to see the on-screen menu and also allows you to playback video on your TV.

1. Connect one of the included RCA Composite A/V cables to the A/V OUT port on the right side of your OSD.
2. Connect the RCA composite cable ends to the corresponding inputs on your TV A/V IN plugs (Yellow=Video, Red=Audio Right, White=Audio Left)
3. Tune your TV to the proper channel for the inputs you just plugged your A/V cable into, just like hooking up a VCR or DVD player to your TV (ex: Input or Video 1, Input or Video 2, Channel 3, Channel 4... or just change the channel on your TV until you see the OSD menu).
4. You should see the Neuros OSD startup screen on your TV.

Press the **home button** if you don't see anything on the TV screen as doing so will always bring up the Main Menu of the OSD.

Note: The Audio cables (Red/White) can be connected to your stereo receiver instead of your TV if you want to play the audio through your stereo instead of through your TV.

The Neuros OSD supports NTSC, PAL standards and SECAM video input. Pressing the NTSC/PAL button on the remote will switch between NTSC and PAL. NTSC is used in the U.S.

2C. Connecting to Video Source (optional)

This step is required if you want to record video from any of your various video sources (DVD player, VCR, Game Consoles, Camcorder, TiVo/DVR, camcorder, etc). It is not required if you only want to stream Internet content to your TV or playback content from memory cards, USB devices, or your computer.

Note: Virtually all video sources have RCA composite output (Red, Yellow, and White plugs on the TV) while some video sources also allow the higher quality S-Video output to be used.

1. Connect one of the included RCA Composite A/V cables to the A/V IN port on the right side of your OSD. If using S-Video, connect both the S-Video and the RCA cables.

Note: S-Video cable not included.

2. Connect the RCA composite cable ends to the corresponding A/V OUT plugs of your video source (Yellow=Video, Red=Audio Right, White=Audio Left).

Note: If using the S-Video cable, you will still need to connect the Red and White RCA plugs (for audio), but not the Yellow one (which is replaced by the S-Video cable).

2D. Inserting Memory Cards or Connecting USB storage devices (optional)

This step is required if you want to directly record to or playback files from memory cards or USB storage devices. It is not required to access the Internet or to directly record to or playback from your networked computer.

CF/Microdrive Slot

This slot will accept Compact Flash cards and Microdrives.
Insert as shown on right.

SD/MS/MMC slot

This slot will accept Secure Digital, MS Duo / MS Pro Duo and Multimedia Cards. Insert as shown on left. In addition to the standard size cards, you will also be able to use MiniSD, Micro SD, MMC Mobile and RS-MMC type cards with the proper adapter. A sampling of the many storage options are below.

NTSC/PAL

TV Channel TV Input TV power

Home menu

Xtra Options Menu

Media playback

Numeric

keyboard

TV Volume

/Mute

One Touch Recording

Back/Exit

Menu Navigation

USB [host]

CF Card.Microdrive

SD.MS.MMC

Power

Serial

IR Out Svideo IN LAN

A/V In/Out

Enter/select

Contextual Help

Display toggle

on/o_

The OSD remote control contains specialized keys configured for controlling the on screen menu system

Audio IN

R

L

Video IN

TV

Any

Video Source

Abbreviated Guide.indd 1 9/13/07 11:19:05 PM

USB Port

The USB port on your OSD will allow you to read/write to/from many different USB devices, including external hard drives, iPod™s, USB thumbdrives, and other portable media players (including MP3 and MP4 players). External hard drives using the standard FAT32 file system are strongly recommended. Other formats may be supported now or in the future. See <http://www.neurostechnology.com/support> for details and updated information.

Note: Almost any hard drive can be formatted to FAT32 (instructions are also at <http://www.neurostechnology.com/support>) and most are by default. If in doubt, you should consult the packaging or manual from the hard drive manufacturer for more information.

2E. Connecting the IR blaster (optional)

This step is required only if you want to use your OSD to control other devices such as your cable or satellite box by emulating the remote control signals of these devices. The most common usage for the IR blaster is to change the channel on your cable or satellite tuner when doing scheduled TV recordings. This will allow the OSD to record from different TV channels at different times without you having to be there to manually change the channel.

1. Go to the Settings Menu from the Main Menu and select IR blaster. Follow the on-screen instructions to “teach” your OSD how to emulate the remote control of the other device. You will only need to do this once for each device.

2. When you are ready to use the IR Blaster (like when you’re going to do a timed recording and need the IR Blaster to change the tuner channel), place the bulb end of the IR blaster so that the bulb is looking directly into the IR window on the device you want to control and plug the other end into the IR Out port of the OSD. Remember, the bulb end of the IR blaster will act just like the IR bulb inside a remote control. It has to be pointing at the right place (the IR window) in order to work. You can semi-permanently affix the IR bulb to a table top by exposing the adhesive strip on the bottom of the base that holds the bulb.

Note: The IR Blaster only works with IR remotes. It won’t work with UHF or other remotes.

Note Also: The IR signal is invisible, so you won’t see the bulb light up when it is activated.

2F. Connecting to the Internet (optional)

This step is required if you want to (i) stream content from the Internet; (ii) receive automatic firmware upgrades via the Internet (see Firmware Upgrades below); or (iii) upload or share content from the OSD via the Internet. It is not required if you only want to record to or playback from USB devices or memory cards.

Note: Like a PC, the Neuros OSD can access the Internet by being connected to a standard Ethernet router using a standard Ethernet cable (CAT5). If you have a home network that can connect to the Internet already, you probably already have this equipment. For more information, please visit the website at <http://www.neurostechnology.com/support>.

1. Insert one end of a standard Ethernet cable (not included) into an output port on your router or hub and insert the other into the Ethernet port of the OSD.

2. From the on-screen Main Menu of the OSD, enter the Settings menu and then choose Network. Follow the instructions there for Connecting to the Internet.

Note: The OSD can also be connected to the Internet wirelessly using a wireless bridge (not included). Details on how to connect wirelessly will also be provided under Settings > Network.

Note: Since the Neuros OSD does not have a web browser, you will be able to access a few selected sites (YouTube initially and others that will be added in future firmware upgrades.

2G. Connecting to a Computer on a home network (optional)

This step is required if you want to directly record to or playback files from your computer's hard drive. It is not required to access the Internet or to record to or playback from memory cards or USB devices.

Note: You cannot connect the OSD directly to your computer. You will need a standard Ethernet router to do this step. If you have a home network, you will probably already have this equipment. If you wish to connect the OSD wirelessly, you will also need a wireless bridge (not included).

1. Insert one end of a standard Ethernet cable (not included) into an output port on your router or hub and insert the other into the Ethernet port of the OSD.
2. From the on-screen Main Menu of the OSD, enter the Settings menu and then choose Network. Follow the instructions there for Connecting to the Network.
3. You may now record to and play back from other PCs on your home network. Note, however, that you may need to create a shared folder with Full Control permissions for everyone on your PC. Please refer to <http://www.neurostechnology.com/support> for updated support information.

2H. Connecting to Serial Port (optional)

The serial port is primarily used for developers and advanced users. It will allow you to hook up your OSD to a PC monitor and some types of tuners.

1. Plug single-pin end of included serial cable into the OSD. Plug the multi-pin end into the PC monitor or other device.

Part 3 Introduction to the OSD Menus Menus and Navigation

1. A set-up screen may appear the first time you connect and turn on your OSD. If so, follow the instructions on this screen.
2. If there is no initial set-up screen, the Main Menu will appear on the OSD. From within the Main Menu, highlight the Getting Started option on the Main Menu (by scrolling to it with the **UP & DOWN** keys on the remote), then Press **Enter** or **Right Arrow** to select it.

Note: If the Main Menu doesn't appear on-screen, press the **Home button** on the remote to bring it up or to return to it at any time.

Note Also: When no buttons are pressed for a period of time, the menu will disappear and show only the source video, if any, on the screen.

3. Read the instructions in the Getting Started menu to learn how to perform various tasks.
- 4 Hit the **Back Arrow** to return to the previous menu.

What if You Get Lost or Don't Know What to Do?

Help is Always Just a Click Away. If you want to know what a menu item does or how it works, simply highlight it by browsing to it, then press the **Help** button on the remote. This will bring up a help screen that is specific to the highlighted menu item.

When in Doubt, Hit the Button (Options). Whenever the is visible on the right side of a given menu selection, you can press the button on the remote for additional options or information. The options available are specific to the location within the menu when button is pressed. You will want to experiment with this and use it often because many cool and often essential features are contained within the options menus.

Part 4 – Choosing the Right Recording Settings for You

One of the most important uses of the OSD is in recording from virtually any video source into variations of the popular MPEG-4 format (which is to video what MP3 is to audio). Once in the MPEG-4 form, the video can be: safely stored and organized on hard drives, portables, or memory cards; easily accessed for playback on TVs and computers; edited; transferred to portables and other devices for playback on the go; easily shared with others (non-copyrighted video only!); and so on.

There is one subtlety, though: some portable devices are compatible with only lower resolution and/or lower quality files, which look great on the small screens of portables but may not look as good on a TV. Files recorded at the highest resolution and quality levels will look best on the TV but may not be compatible with smartphones and other portable devices. When you make a recording, you can choose the device or devices you plan to use to play back the recorded file. Your choice here will optimize the resolution for that particular device, but will not necessarily mean you will not be able to play back your files on your other devices. For example, choosing a setting that optimizes the recording for playback on larger screens like TV's and PC's will create larger data files and may make the files unwatchable on some handhelds. If you care more about having high quality recordings for playback on larger screens than you do about compatibility with a range of handhelds and have plenty of available storage space, you may want to choose this setting.

On the other hand, choosing a setting that optimizes the recording for playback on a handheld like a smartphone will create smaller data files that will be playable on just about any device (including the TV), but the quality of these files won't look as good on a TV or other device with a larger screen. If you want to ensure file compatibility with the greatest number of devices, want to conserve disc space, and/or don't mind a lower quality picture on larger screens, these settings are for you.

For more detailed information, scroll to highlight "Record" on the Main Menu, then press the Help (?) button or go to <http://www.neurostechnology.com/neuros-osd-recordingsettings>.

Part 5 – Assigning Permanent Storage (optional)

This step is done to effectively extend the internal memory of the OSD and will only be necessary if: (i) you want to use database features for organizing and accessing your music content (activities like searching by artist, album, etc), which will be available in firmware versions released in October, 2007 or later; or (ii) you want to take advantage of applications that may be made available in future firmware upgrades that exceed the available internal memory of the OSD. Any such applications would be optional.

Step 1 From the Main Menu, go to Settings > Permanent Storage and follow the instructions there.

Part 6 – Upgrading the OSD Firmware (Optional)

See Part 1 - Overview above for an explanation of why you may want to do this from time to time to take advantage of cool new features that will be added free of charge to the OSD.

These upgrades can be done either manually or automatically.

Manual Firmware Upgrades (use this method if not connected to Internet)

1. Using your computer browser, go to: <http://www.neurostechnology.com/upgradeneuroso-d>
2. Download the latest firmware for the OSD to a memory card or USB storage device.
3. Once download is complete, plug the memory card or USB storage device into your OSD.
4. Select **Play/Browse** from the OSD Main Menu, browse to the downloaded firmware file (it will have a **.upk** extension), and press **Enter** . Then select **OK** to begin the installation.

Or:

Automatic Firmware Upgrades (recommended if connected to Internet)

1. Make sure your Neuros OSD is turned on and connected to the Internet (see Parts 2.A and 2F above).
2. Go to Settings > Firmware Upgrade and change Frequency from Off to Daily or Weekly, depending on how often you want the OSD to check for new firmware upgrades. Then set Select Update Type to Official (recommended for mainstream users), Beta (recommended for users who want the latest firmware but don't mind a few bugs as these releases haven't been as thoroughly tested as the Official releases) or Dev (recommended for developers who want very regular releases and don't mind that these releases have not yet been tested by Neuros or the Neuros community). Set Time H:M to the time of day you want the OSD to look for upgrades (in hours and minutes).
3. Go to Check Now and hit Enter to immediately look for new upgrades. If newer firmware is available, the Neuros OSD will download and immediately begin installing it. Once the install is complete, the OSD will automatically re-boot with the new firmware installed.

Part 7 – Troubleshooting the OSD

If you get lost or don't know what to do, hit the **Help** or button (see Part 3 above). If your OSD appears unresponsive to the remote or otherwise appears to lock up, first make sure the remote is within range and pointing at the OSD's IR window (located on left side of the OSD just to the right of the CF/microdrive slot). If that doesn't work, try simply waiting for a minute or two. The OSD will often work the problem out by itself. If the unresponsiveness persists, re-boot the OSD by unplugging and re-plugging the power supply (see Part 2A above). You might also try checking or replacing the batteries in the remote. If problems persist, go to <http://www.neurostechnology.com/support> for a complete User's Manual, up-to-date FAQ's, forums, and contact information for Neuros customer support.

Remove the camera from its storage holder and insert into the pipe to be inspected.

Store camera in basket when not in use.

Install skids whenever possible for camera protection.

Skids will help in the operation of the camera as well as increase the durability of the system.

Verify the distance counter increases as the cable is advanced.

