# ASUS NOVA P20/22 User Manual



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## **Safety information**

Your ASUS NOVA P20/P22 is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

#### Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water or a heated source such as a radiator.
- Set up the system on a stable surface.
- Use the support stand if you want to stack up your NOVA. Stacking up the system without the support stand would hamper the ventilation and damage the system.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- If you use an extension cord, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.

#### Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your system.
- When the system is turned off, a small amount of electrical current still flows.
   Always unplug all power, modem, and network cables from the power outlets before cleaning the system.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
  - The power cord or plug is damaged.

- Liquid has been spilled into the system.
- The system does not function properly even if you follow the operating instructions.
- The system was dropped or the cabinet is damaged.
- The system performance changes.

#### **CD-ROM Drive Safety WARNING**

#### **CLASS 1 LASER PRODUCT**

#### NO DISASSEMBLY

# The warranty does not apply to the products that have been disassembled by users



This symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment, and mercurycontaining button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

\*The system does not come with a built-in TV tuner. To use the TV function, purchase a TV docking or an external TV box first.

#### About This User's Manual

You are reading the ASUS NOVA P20/P22 User's Manual. This User's Manual provides information on the various components in the NOVA P20/P22 and how to use them. The following are maior sections of this User's Manuals:

#### 1. Welcome

Introduces you to the NOVA P20/P22 and this User's Manual.

#### 2. **Getting Started**

Gives you information on the PC's components and information on getting started with the NOVA P20/P22.

#### 3. Using vour NOVA P20/P22

Gives you information on using the NOVA P20/P22.

#### 4. Recovering your system

Gives you additional information on system recovery.

#### **Notes For This Manual**

A few notes and warnings are used throughout this guide that you should be aware of in order to complete certain tasks safely and completely. These notes have different degrees of importance as described below:



**WARNING!** Important information that must be followed for safe operation.



**IMPORTANT!** Vital information that must be followed to prevent damage to data, components, or persons.



**TIP**: Tips for completing tasks.

**NOTE:** Information for special situations.



Congratulations on your purchase of the ASUS NOVA P20/P22. The following illustration displays the package contents of your new ASUS NOVA P20/P22. If any of the below items is damaged or missing, contact your retailer.

#### **Package contents**



#### Overview

The ASUS NOVA P20/P22 features rich entertainment and powerful computing capabilities. You can either run the Windows<sup>®</sup> Media Center with other programs or enjoy it in fullscreen mode. With the Media Center remote, you can play videos as well as music, and view pictures.

#### **Features**

- AV Entertainment
  - High Definition video/audio support
  - Playing DVDs and home videos
  - Listening to music files
  - Viewing and editing pictures
- Connectivity
  - USB
  - Bluetooth
  - DVI
  - LAN
  - Wireless LAN
  - Audio I/O
  - SPDIF: In & Out

#### **Knowing the parts**

#### **Front view**

Refer to the diagram below to identify the components on this side of the system.



#### 0

2

#### Slot-in optical drive

The system comes with a slot-in optical disc drive which allows you to load or eject optical discs easily.



The slot-in optical drive can only hold the standard optical discs (12cm). Inserting smaller-sized or larger-sized disc would damage the optical drive.

#### Optical Drive Electronic Eject (touch-sensitive)

The optical drive eject has an electronic eject button for unloading the disc. You can also eject the optical disc through any software player.

#### 3 U Power switch (touch-sensitive)

The power switch allows powering ON and OFF the system and recovering from STD. Use the switch once to turn ON and once to turn OFF the system.

#### Infrared port

The infrared (IrDA) communication port allows convenient wireless data communication with infraredequipped devices or computer. This allows easy wire less synchronization with PDAs or mobile phones and even wireless printing to printers.

#### **Rear Side**

Refer to the diagram below to identify the components on this side of the system.



#### 5 ECIN Power (DC) Input

The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the PC. To prevent damage to the PC, always use the supplied power adapter. **CAU-TION: MAY BECOME WARM TO HOT WHEN IN USE. BE SURE NOT TO COVER THE ADAPTER AND KEEP IT AWAY FROM YOUR BODY.** 

Z

The system is using +19V AC/DC power adapter. If your power adpater is damaged or fails to function, contact your retailer.

#### 6 2.0 USB Port (2.0/1.1)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, and hard disk drives, connected in a series up to 12Mbits/sec (USB 1.1) and 480Mbits/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. Also, USB supports hotswapping function.

#### 🕜 🔲 Display (Monitor) Output

The Digital Visual Interface (DVI) monitor port supports a high quality VGA-compatible device such as a monitor or projector to allow viewing on a larger external display. For D-sub connector-equipped display, use the DVI to D-Sub adapter in the package when connecting the display

#### 8 品 LAN Port

The eight-pin RJ-45 LAN port supports a standard Ethernet cable for connection to a local network. The built-in connector allows convenient use without additional adapters.

#### **9 E** Line in port (S/PDIF in port)

Plug an 3.5mm mini-jack stereo audio cable into this jack for digital audio transfer.

#### 🔟 🕥 Headphone Output Jack

The <sup>1</sup>/<sub>8</sub>" stereo headphone jack (3.55mm) is used to connect the system's audio out signal to amplified speakers or headphones. Using this jack automatically disables the built-in speakers.

#### 11 🔊 **Microphone Jack**

The microphone jack is designed to connect the microphone used for video conferencing, voice narrations, or simple audio recordings.

# Using the Media Center remote control

Use the remote to launch the Media Center program to play video recordings or other media files such as music and movies.

Refer to the following pages to familiarize yourself with the functions of the remote control buttons. The remote control may vary depending on territories.



Α.

- **Power**: Press to turn off the power of the screen and the speakers. (Away mode)
- Photo: Press to enter the Photo mode.
- **3 Video**: Press to enter the Video mode.
- **Pause**: Press to pause a media during media playback.
- **5 Fast-foward**: Press to fast-forward a media file.
- 6 Next track: Press to go to the next track.
- **Information**: Press to display the program information screen.
- **OK button**: Press to confirm an action.
- 9 Mute: Press to disable audio.
- Channel up/down: Press to change channels when watching TV.\*
- 1 Live TV button: Press to watch live TV programs.\*
- **DVD button**: Press to switch to DVD source.
- 18 Numeric keys: Press to enter a channel number directly.
- **Enter**: Press confirm a selection.
- **Teletext buttons**: Only available on European models.
- **Shift button**: Toggles between numerical and alphabetical input.
- **Clear**: Press to clear input information.
- 18 TV Recording: Press to start recording the current TV program.\*
- (9 EPG (Electronic Program Guide): Press to display the electronic program guide screen.\*
- **Volume up/down**: Press to increase/decrease audio.

21 Windows Media Center: Press to open the Media Center program. Four-way navigation keys: Press to scroll through on-22 screen display menus. 23 **Return**: Press to return to the previous page. 24 **Previous track**: Press to go back to the previous track. 25 **Rewind**: Press to rewind a media file. 26 Play: Press to playback a media file. 27 Record: Press to start recording. 28 **Stop**: Press to stop playing back a media file. 29 **TV**: Press to enter the TV mode.\* 30 **Music**: Press to enter the Music mode.

\*The system does not come with built-in TV tuner. To use the TV function, purchase a TV docking or an external TV box first.

B.



- Power: Press to turn off the power of the screen and the speakers.
- **2 Pause**: Press to pause a playback.
- **3 Stop**: Press to stop playing a media file.
- 4 Play: Press to play a media file.
- **5 Fast-foward**: Press to fast-forward a media file.
- 6 Next track: Press to go to the next track.
- Windows<sup>®</sup> Media Center: Press to launch the Media Center program.
- **8** Information: Press to display program information under Media Center or other menu options.
- **OK**: Press to confirm an action.
- (1) Channel up/down: Press to change TV channels.\*
- 1 Live TV button: Press to watch live TV programs.\*
- **DVD button**: Press to switch to DVD source.
- **Enter**: Press to confirm a selection.
- **Teletext buttons**: Available on European models only.
- **Shift**: Toggles between numerical and alphabetical input.
- **Clear**: Press to clear input information.
- 1 Numeric keys: Press to enter a channel number.
- **Recorded TV**: Press to display a list of your recorded TV programs.\*
- (9 EPG (Electronic Program Guide): Press to display the electronic program guide screen.\*
- **20** Volume up/down: Press to increase/decrease the volume.

- **Mute**: Press to disable audio output.
- 2 Four-way navigation keys: Press to scroll through on-screen display menus.
- **Return**: Press to return to the previous page.
- **Previous track**: Press to go back to the previous track.
- 25 **Rewind**: Press to rewind a media file.
- 26 Record: Press to start recording TV.\*

\*The system does not come with built-in TV tuner. To use the TV function, purchase a TV docking or an external TV box first.

#### **Positioning your NOVA P20/P22**



Use the support stand if you want to stack up your NOVA P20/P22. Stacking up the system without the support stand would hamper the ventilation and damage the system.

## Using your NOVA P20/P22

#### **Connecting peripheals**

You need complete some peripherals connections before starting using your NOVA P20/P22.

#### **Display connection**

Follow the instructions below to connect the external display.

- 1. Connect one end of the DVI cable to the display.
- 2. Connect the other end of the cable to the DVI port on the rear side of system.





If your display comes without a DVI port, use the DVI to D-Sub adapter in the package when installing the display.

#### **Universal Serial Bus (USB) Devices connection**

The USB port is compatible with USB2.0 or USB 1.1 devices like keyboards, mouses, printers, etc. You can attach any USB keyboard and mouse to NOVA P20/P22. The illustration below shows the USB keyboard and mouse connecting to the system.



\* The package contents does not include USB keyboard and mouse. Purchase USB peripherals based on your needs.

#### **Network connection**

If you want to obtain network access, connect the network cable, with RJ-45 connectors on each end, to the network port on the system and the other end to a hub or switch. The illustration below is the example of your NOVA P20/P22 connected to a network hub or switch for use with the built-in Ethernet controller.



Network cable with RJ-45 connectors

#### Wireless network connection

To connect to a wireless network, follow the instructions below.

- Move the cursor to the network icon on the taskbar and you will see Not Connected.
- Right-click on the network icon and select Connect to a network.





 Select the wireless network you want to connect to from the list.





Select Show Wireless if you have many networks in your area.

4. When connecting, you may have to enter a password.



This screen will not appear if no password is needed.

Type the	network security key	or passphrase	for 1234	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·····,			
The perso	who setup the network can	give you the key or	passphrase.	
Security lo	y or passphrase:			
	4		1	
🕅 Display	characters			
	unu have a USB flack drive we	ith national ration	for sour inpart it n	744
50	Journal of State Instituting in	arriterion secong.	nor usus, insertient	

 After connection has been established, Connected will be shown.

Discon	nect or connect to	another network	
Sho	Wireless	-	
4	Network	Connected	Illee
4	Mic	Security-enabled network	lter
4	Unnamed Network	Unsecured network	-atil
Set up a c	connection or network		

#### **Bluetooth wireless connection**

NOVA P20/P22 with Bluetooth technology eliminates the need for cables for connecting Bluetooth-enabled devices. Follow the instructions below to build Bluetooth wireless connection.

1. Double-click the Bluetooth icon on the Windows taskbar to start the connection wizard.



2. Select the Bluetooth device you want to connect to from the list and click **Next** to continue.



Bluetooth Device Discovery

Now performing device discovery and updating information. Please wait.

If you do not see the device you want to connect on the Bluetooth device list, click **Refresh** to search for the Bluetooth devices again.

3. You may need to enter the password if the device requires authentication.



4. After the setup completes, click **Next** to continue.



5. The device you connect to will be shown.

😵 Bluetooth Settings
Bluetooth View Help
Bluetooth'
SPP Connection
New Delete
Connection

6. Click the **New Connection** button and follow the previous instructions to add more Bluetooth devices.



Your NOVA P20/P22 can connect multiple devices at a time via Bluetooth.

## Using the optical drive

#### Inserting an optical disc

- 1. Place the disc to the slot-in optical drive with the label side facing up.
- 2. Slide the disc into the drive.



#### **Ejecting an optical disc**

- 1. While the system power is on, press the eject button.
- 2. Remove the disc from the opening.



## **Enjoying instant music**

Through the pair of built-in Hi-Fi speakers locatetd at the front side of ASUS NOVA, you can always enjoy high quality music without extra speakers. ASUS NOVA also supports analog and digital speakers with Dolby<sup>®</sup> Digital Live or DTS connect technology, refer to next sections for detailed configurations.

#### **Configuring audio output**

ASUS NOVA P20/P22 supports different types of audio configurations. You may set up the system using stereo speakers or a multi-channel audio speaker system. Connect your speaker system to NOVA P20/P22, and then configure your audio output through the software.

#### **Speaker configurations**

Name	Speaker system
2 (stereo)	Left speaker, right speaker.
4	Two front speakers, two rear speakers.
5.1	Two front speakers, two rear speakers, a center
	speaker, and a subwoofer.

You may set up the system with the following speaker configurations:

Port	Headset 2-speaker	6-speaker	S/PDIF
Light Blue	Line In	Surround	S/PDIF in
Lime	Line Out	Front	S/PDIF out
Pink	Mic In	Center/Bass	Mic

#### Speaker types

A stereo speaker set is a left-right, two channel speaker system. A multi-channel audio speaker has a left-right front and leftright rear channel, and it may include a subwoofer and a center speaker. A subwoofer provides enhanced bass sounds.

".1" indicates a subwoofer. For instance, 5.1 channels refers to an six-speaker mode and uses two front speakers (left-right), two rear speakers (left-right), a center speaker, and a subwoofer.

#### Connecting to analog speakers

ASUS NOVA P20/P22 is equipped with a line-out jack (lime) that allows you to connect to stereo speakers.

There are three sound connectors enabling you to configure an up to 5.1 channel audio setup.

Refer to the table below for the audio connectors on the rear panel and their functions.

#### For stereo speakers

P20/P22	Description
	<b>Front</b> connects to stereo speakers.

#### For a multi-channel audio speaker system

P20/P22	Description
	<b>FRONT</b> connects to the FRONT port on the sub-
FRONT	woofer.
	SURROUND connects to the REAR port on the
SURROUND	subwoofer.
	<b>CENT/BASS</b> connects to the SUB/CENTER port on
CENTER/BASS	the subwoofer.

#### **Connecting to digital speakers**

You can also connect NOVA P20/P22 to your home stereo or home theater multi-channel audio receiver/amplifier to use your existing speaker system.

 Digital output: Plug an audio cable with a mini jack-s/PDIF adapter from the S/PDIF Out port on the system rear panel to your amplifier.



#### Configuring audio output settings

After connecting a speaker system to your NOVA P20/P22, follow the steps below to configure audio output:

#### Using analog speakers

 From the Windows<sup>®</sup> Vista<sup>™</sup> taskbar, right-click on the volume control icon and then select **Playback Devices**.



- Under the Playback window, select Speakers and click Set Default.
- 3. Click **Configure** and the Speaker Setup window pops up.



 Select the speaker system you have and click Next. If you are using stereo speakers, select Stereo; 4 speakers, select Quadrophonic;
 1 channel speakers, select
 5.1 Surround.

You may click **Test** to test each of your speakers.



5. Check the boxes if you use full-range speakers, and then click **Next**.



This configuration screen varies based on the speakers you are using. For 5.1 channel speakers users, check the boxes to indicate the speakers that are present in your surround configuration.



6. Click **Finish** to exit the speaker setup.

		<u> </u>
0	Speaker Setup	
	Configuration complete	
	comgaradon comprete	
	If you click 'Finish' your new settings will be applied to this audio device. To make further changes, you can use the Properties dialog or run this wizard again.	
-		
	Finish Car	icel
<u></u>	80.0	

#### **Using digital speakers**

 From the Windows<sup>®</sup> Vista<sup>™</sup> taskbar, right-click on the volume control icon and then select **Playback Devices**.



- Under the Playback window, select Realtek Digital Output and click Set Default.
- 3. Click **Properties** and the Realtek Digital Output Properties window pops up. Click the tabs on the top to configure your preferences.

C Sound		×
Playback Re	cording Sounds	
Select a pla	yback device below to modify its settings:	
	Speakers Realtek High Definition Audio Working	
	Realtek Digital Output Realtek High Definition Audio Working	
Configur	e Set Default Prop OK Cancel	erties

#### <u>General</u>

From the General tab, You can customize the property name and icon, view the controller/ jack information, and configure the device usage.

#### Support Formats

From this tab, You can select the encoded format and the sample rates.





#### <u>Levels</u>

You can enable or mute the Realtek digital output level.

🐲 Realte	k Digital Output Pro	perties			X
General	Supported Formats	Levels	Enhancements	Advanced	
Real	tek Digital Output				
		Ok	Cano	el A	pply

#### <u>Enhancements</u> You can apply a special sound effect for the listening configuration from this tab.

<ul> <li>Realter Digital Outpl</li> </ul>			
General Supported For	mats Levels Enhancements Advanced		
Select the sound effects to apply for your current listening configuration. Changes may not take effect until the next time you start playback.			
Disable all sound e	ffects Immediate mode		
Environment     Voice Cancellatio     Pitch Shift     Equalizer	n	* III *	
Sound Effect Proper	ties		
Provider :	Realtek		
Description :	Environment simulates several external conditions to provide another fun.		
Setting :	None		
	OK Cancel A	pply	

#### <u>Advanced</u>

From this tab, You can click and select the sample rate and bit depth from the drop-down menu for the default format.



## **Using Windows Media Center**

#### **Starting Windows Media Center**

You can take full control of the Windows Media Center using your wireless keyboard and either of your remote controls.

To start Windows Media Center, do one of the following:

- Press the Media Center button 
   on your Media Center remote.
- From the Windows<sup>®</sup> desktop, click Start > All Programs > Windows Media Center.

#### TV + Movies\*

Enjoy your TV/movie viewing experience with the TV + Movies feature. Use TV + Movies to watch live TV programs, record TV programs, watch recorded programs, view program information, and play DVDs.

#### Watching TV\*

- Press the Live TV button (a) on the remote. The last viewed TV channel is displayed.
- 2. Use the Channel up/down buttons to change channels while watching TV.

#### **Recording TV programs\***

- 1. Use the Channel up/down or the numeric keys to select the program you wish to record.
- 2. Press the Record button on the remote to start recording.

#### Playing TV recordings\*

 Press the Recorded TV button (a) to display a list of recorded TV programs.

\*The system does not come with built-in TV tuner. To use the TV function, purchase a TV docking or an external TV box first.

2. Select a recording and press the **Play** button → to play or press **OK** to view details.



Media Center automatically records the program you are watching for up to 30 minutes and saves it to a buffer. Therefore, if you pause a live TV program, you can pick up where you left off.

#### Watching DVDs

Insert a DVD into the Super Multi Drive and the DVD will be played automatically. You can also press the DVD button (=) on the remote to play it.

#### Music

**Music** provides you with a complete music experience. You can listen to CDs or other music files, create your own playlists, view album information, and listen to music by albums, genres, artists, etc.

#### Adding music CDs to music library

- 1. From the Media Center main menu, select **Music**.
- 2. Insert a CD into the Super Multi Drive. The CD will be played automatically, and a list of options appear on the left side of the "now playing" screen.
- 3. Select **Copy CD**, and then select **Yes** to confirm your choice. The CD is copied and saved as music files to the hard disk drive under **music library**.

#### **Playing Music**

- 1. From the Media Center main menu, select **Music** > **music library** to display your music files.
- 2. Select music to play by albums, genres, artists, etc.

#### Pictures + Videos

Enjoy and manage your digital photos/videos or downloaded pictures/videoclips using **Pictures + Videos**. You can browse the pictures individually or playing them as a slide show with music background.

#### **Viewing pictures**

- From the Media Center main menu, select Pictures + Videos
   picture library to display your picture folders.
- 2. Select a folder and press **OK** to open it. Select an image and press **OK** to view.

To play the pictures in a selected folder as a slide show, highlight the folder and press the **Play** button b to start playing it. You can also select **Play slide show** on the sidebar.

#### Watching videos

- 1. From the Media Center main menu, select **Pictures + Videos** > **video library** to display your videos.
- 2. highlight a video and press the **Play** button ( ) to start playing it.

## **Recovering your system**

#### **Using the Recovery DVD**

The Recovery DVD includes an image of the operating system, installed on your system at the factory. The Recovery DVD, working with the Support DVD, provides a comprehensive recovery solution that quickly restores your system to its original working state, provided that your hard disk drive is in good working order. Before using the Recovery DVD, copy your data files (such as Outlook PST files) to floppy disks or to a network drive and make note of any customized configuration settings (such as network settings).

- 1. Insert the Recovery DVD into the optical drive (System needs to be powered ON).
- Restart the system and press <DEL> on bootup to enter the BIOS setup. Go to Boot > Boot Device Priority and select the optical drive (may be labeled as "CDROM:XXXX") as the 1st Boot Device.
- 3. Press **<F10>** to save the configuration and reboot from the Recovery DVD.
- 4. Select a partition option and click **Next.** Partition options:

#### Recover system to a partition only.

This option will delete only the partition you select from below, allowing you to keep other partitions, and create a new system partition as drive "C".

#### Recover system to entire HD.

This option will delete all partitions from your hard disk drive and create a new system partition as drive "C".

5. Follow the on-screen instructions to complete the recovery process.



You will lose all your data during the system recovery. Ensure to back up your important data before recovering your system.

- 6. After the system recovery is completed, eject the the Recovery DVD from the optical drive.
- Restart the system and press <DEL> on bootup to enter the BIOS setup. Go to Boot > Boot Device Priority and reset the hard disk drive (may be labeled as "HDD:XXXX") as the 1st Boot Device.
- 8. Press **<F10>** to save the configuration and reboot the system.
- 9. Insert the Support DVD into the optical drive.
- 10. Click **ASUS InstAll Drivers Installation Wizard** from the **Drivers** tab and install all the drivers.



It may take some time to reinstall all the drivers. If the screensaver starts, press any key to bring back the installation screen.

## **Using the Hidden Partition**

The Recovery Partition includes an image of the operating system, drivers, and utilities installed on your system at the factory. The Recovery Partition provides a comprehensive recovery solution that quickly restores your system's software to its original working state, provided that your hard disk drive is in good working order. Before using the Recovery Partition, copy your data files (such as Outlook PST files) to floppy disks or to a network drive and make note of any customized configuration settings (such as network settings).



DO NOT delete the partition named "RECOVERY." The Recovery Partition is created at the factory and cannot be restored by the user if deleted. Take your system to an authorized ASUS service center if you have problems with the recovery process.

- 1. Press **<F9>** during bootup (requires a Recovery Partition)
- 2. Press <Enter> to select Windows Setup [EMS Enabled]
- 3. Read the "ASUS Preload Wizard" screen and click Next.
- 4. Select a partition option and click **Next.** Partition options:

#### Recover Windows to a partition only.

This option will delete only the partition you select from below, allowing you to keep other partitions, and create a new system partition as drive "C".

#### Recover Windows to entire HD.

This option will delete all partitions from your hard disk drive and create a new system partition as drive "C".

- 5. Follow the on-screen instructions to complete the recovery process.
- 6. Reboot and insert the Support DVD into the optical drive.
- 7. Click **ASUS InstAll Drivers Installation Wizard** from the **Drivers** tab and install all the drivers.

