

HP A9NC2PA

HP Victus Gaming Laptop User Manual

Model: A9NC2PA

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HP Victus Gaming Laptop, Model A9NC2PA. This laptop is designed for performance, featuring a 12th Gen Intel Core i5-12450H processor, NVIDIA GeForce RTX 3050 graphics, 16GB DDR4 RAM, and a 512GB PCIe Gen4 SSD. It comes with Windows 11 Home and Microsoft Office Home & Student 2021 pre-installed.



Figure 1: HP Victus 3050A Laptop overview, highlighting its versatility for learning, gaming, and productivity.

2. SETUP

Follow these steps to set up your new HP Victus Gaming Laptop:

1. **Unboxing:** Carefully remove the laptop, power adapter, and any included documentation from the packaging. Ensure all components listed in the 'Box Contents' (Laptop, Charger, User Manual) are present.

2. **Connect Power:** Plug the power adapter into a wall outlet and then into the laptop's power port. It is recommended to fully charge the battery before initial use.
3. **First Boot:** Open the laptop lid and press the power button. The laptop will guide you through the initial Windows 11 setup process. Follow the on-screen instructions to configure your operating system, network connection, and user account.
4. **Software Updates:** After initial setup, connect to the internet and allow Windows to download and install any pending updates. This may require several restarts. It is also advisable to check for driver updates through the HP Support Assistant application.

The advertisement features a dark blue HP Victus 3050A laptop in the foreground, angled towards the right. The screen displays a futuristic racing car with orange and black accents, flying over a city skyline at sunset. The background is a dark, moody cityscape with silhouettes of buildings. The text 'VICTUS 3050A' and 'LEARN, GAME, EXCEL' is prominently displayed at the top in white. Below this, six specifications are listed, each with a corresponding icon: NVIDIA GeForce RTX 3050A graphics, 12th Gen Intel Core i5-12450H processor, Windows 11 Home, 16 GB DDR4-3200 MHz RAM, 512 GB PCIe SSD, and Office Home & Student 2021.

VICTUS 3050A

LEARN, GAME, EXCEL

-  4 GB NVIDIA® GeForce RTX™ 3050A graphics
-  12th Gen Intel® Core™ i5-12450H processor
-  Windows 11 Home
-  16 GB DDR4-3200 MHz RAM
-  512 GB PCIe® SSD
-  Office Home & Student 2021

Figure 2: Key specifications of the HP Victus laptop, including processor, graphics, memory, and storage.

3. OPERATING INSTRUCTIONS

3.1 Display and Graphics

Your HP Victus laptop features a 15.6-inch Full HD (1920 x 1080) IPS anti-glare display with a 144Hz refresh rate and 9ms response time, providing smooth visuals for gaming and general use. The NVIDIA GeForce RTX 3050A graphics card with 4GB GDDR6 memory enhances visual performance.

BIGGER, BRIGHTER 15.6" FHD DISPLAY

144 Hz
refresh rate

IPS panel
anti-glare

250
nits

9 ms
response time



Figure 3: Display features of the HP Victus laptop, emphasizing high refresh rate and IPS technology.

FASTER, MORE ACCURATE IPS TECHNOLOGY

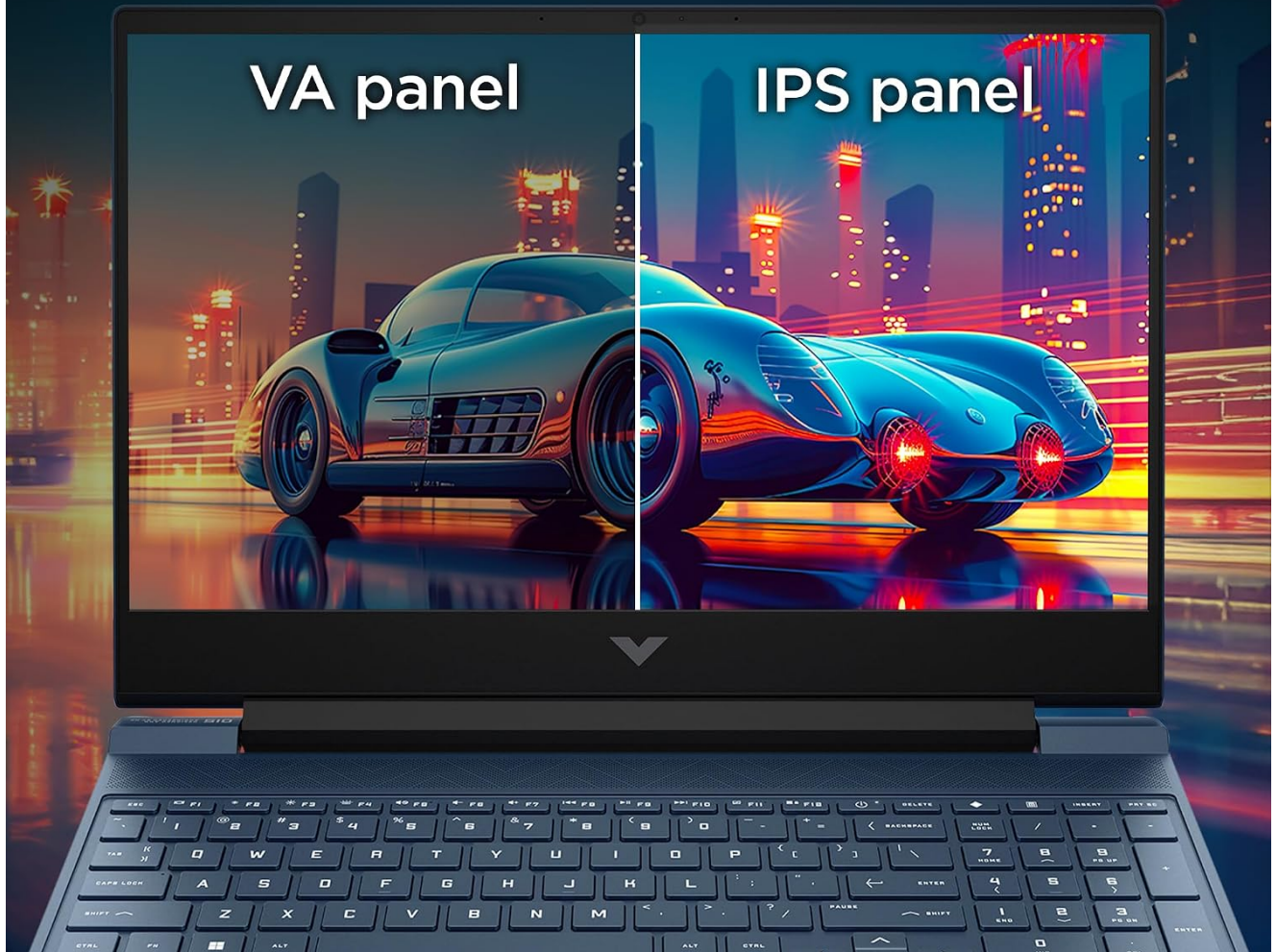


Figure 4: Visual comparison demonstrating the superior accuracy and viewing experience of IPS technology.

3.2 Processor and Memory

The laptop is powered by a 12th Gen Intel Core i5-12450H processor with 8 cores and 12 threads, offering robust performance for multitasking and demanding applications. It includes 16GB of DDR4-3200 MHz RAM for efficient operation and a 512GB PCIe Gen4 NVMe SSD for fast storage access and quick boot times.

12TH GEN INTEL® PROCESSOR - SUPERCHARGE PRODUCTIVITY AND GAMING

Performance
hybrid architecture*

Intel®
Thread Director*

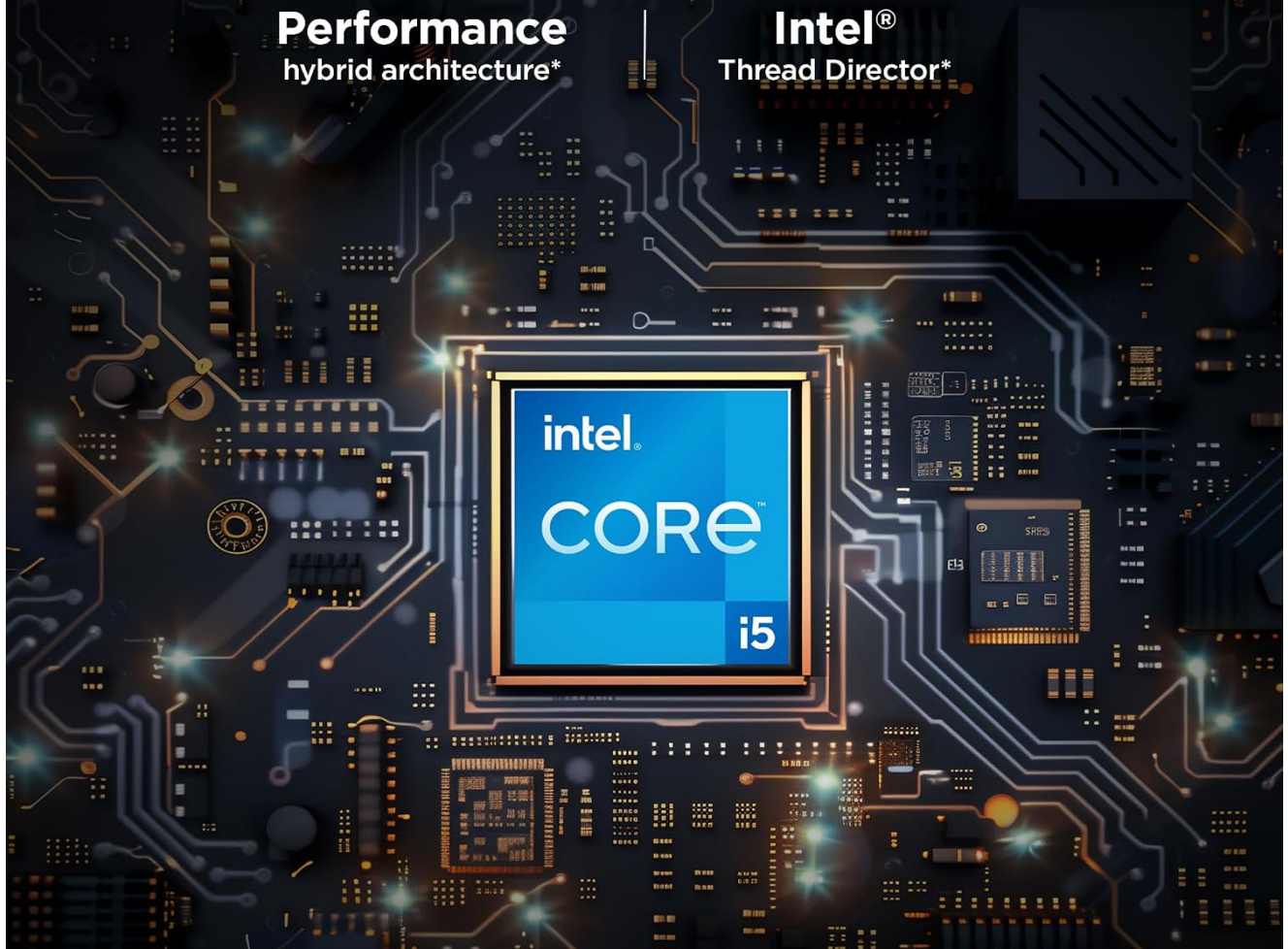


Figure 5: The 12th Gen Intel Core i5 processor architecture, designed for enhanced productivity and gaming.

3.3 Connectivity and Ports

The HP Victus laptop offers comprehensive connectivity options:

- **Wireless:** Wi-Fi 6E for fast and stable internet connections, and Bluetooth 5.3 for connecting peripherals.
- **Ports:**
 - 1 x USB Type-C 5Gbps signaling rate (DisplayPort 1.4, HP Sleep and Charge)
 - 1 x USB Type-A 5Gbps signaling rate (HP Sleep and Charge)
 - 1 x USB Type-A 5Gbps signaling rate
 - 1 x HDMI 2.1
 - 1 x RJ-45 (Ethernet)
 - 1 x Headphone/microphone combo jack

MORE PORTS FOR MAXIMUM PERFORMANCE

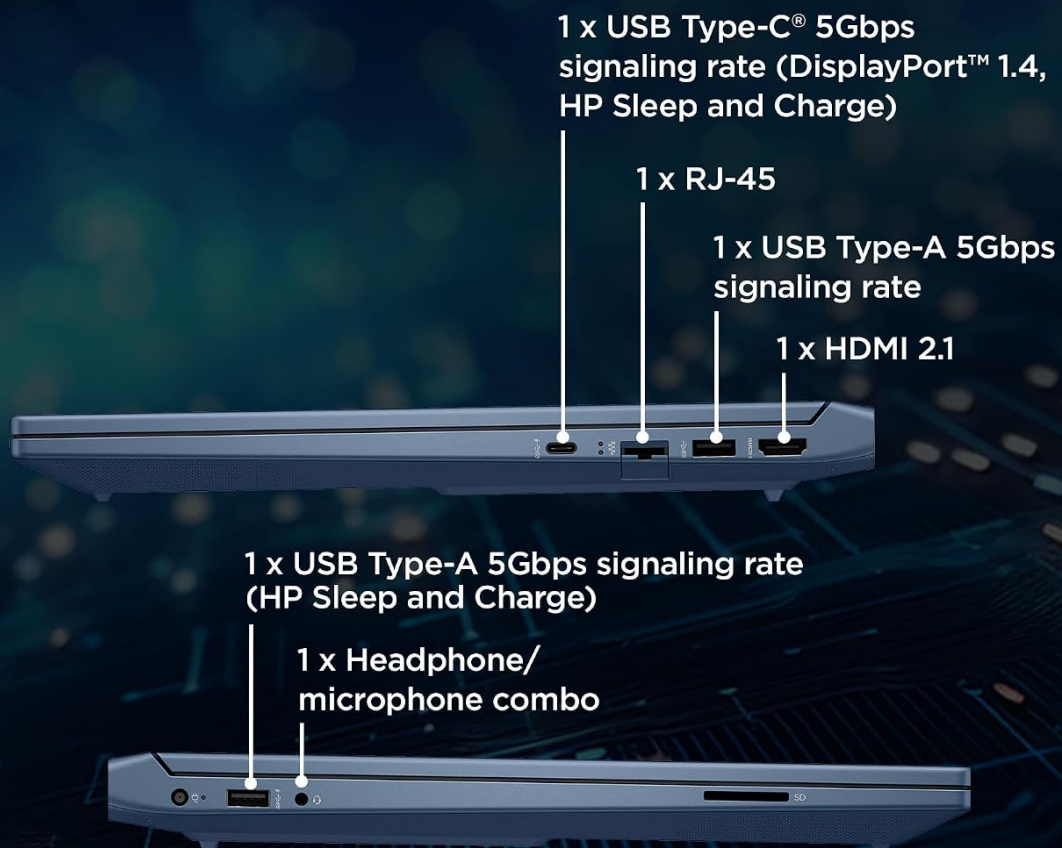


Figure 6: Overview of the laptop's ports for external device connectivity.

3.4 Keyboard and Touchpad

The laptop features a full-size backlit keyboard with a numeric pad, providing comfortable typing in various lighting conditions. The HP Imagepad supports multi-touch gestures for intuitive navigation.

3.5 Audio and Webcam

Experience rich audio with B&O Audio. The integrated 720p HD camera includes temporal noise reduction and dual array microphones for clear video calls and online interactions.

FEATURES THAT LET YOU INNOVATE AND DOMINATE



**Full-size
backlit keyboard**



HP Fast Charge



**Wi-Fi 6E and
Bluetooth® 5.3**



**Temporal
noise reduction**



720p HD camera



Updated thermals

```
115 CV_HOUGH_GRADIENT, 2, gray->width,100,200); if(circles->total > 0)
116 {
117     float* p = (float*)cvGetSeqElem( circles, 1 );
118     uchar* ptr = cvPtr2D(img, cvRound(p[1]), cvRound(p[0]), NULL);
119
120     double region_size = 7;
121     double red_avg = 0;
122     double green_avg = 0;
123     double blue_avg = 0;
124
125     for(int y=-floor(region_size/2); y<ceil(region_size/2); y++)
126     {
127         uchar* ptr1 = (uchar*) (ptr + y * img->widthStep);
128         for( int x=-floor(region_size/2); x<ceil(region_size/2); x++)
129         {
130             blue_avg += ptr[3*x];
131             green_avg += ptr[3*x+1];
132             red_avg += ptr[3*x+2];
133         }
134     }
135     red_avg = red_avg/(region_size*region_size);
136     green_avg = green_avg/(region_size*region_size);
137     blue_avg = blue_avg/(region_size*region_size);
138
139     bool color = (green_avg-150)*(green_avg-150)<900 && (blue_avg-100)*(blue_avg-100)<400 && (red_avg-100)
140
141     if(color)
142     {
143         cvCircle( rgbimg, cvPoint( cvRound(p[0]),cvRound(p[1])),
144             3, CV_RGB(0,255,0), -1, 8, 0 );
145         cvCircle( rgbimg, cvPoint( cvRound(p[0]),cvRound(p[1])),
146             cvRound(p[2]), CV_RGB(255,0,0), 3, 8, 0 );
147
148         if(d = get_actual_depth(cvGet2D(deptimg, cvRound(p[1]), cvRound(p[0])).val[0]))
149         {
150             templandmark->detected = true;
151             X = 220.5 - cvRound(p[0]);
152             mu = (240.5 - cvRound(p[1]))*d/FOCAL_LENGTH;
```

Figure 7: Key features for innovation and productivity, including connectivity, camera, and thermal design.

4. MAINTENANCE

4.1 General Care

- Keep the laptop clean by regularly wiping surfaces with a soft, dry cloth.
- Avoid exposing the laptop to extreme temperatures, direct sunlight, or excessive moisture.
- Ensure proper ventilation by not blocking the air vents.

4.2 Battery Management

The laptop is equipped with a 3-cell, 52.5Wh Lithium Polymer battery, offering up to 7 hours and 45 minutes of battery life under typical usage. It supports HP Fast Charge, allowing you to charge up to 50% in approximately 30 minutes.

- To prolong battery lifespan, avoid consistently draining the battery to 0% or keeping it at 100% charge for extended periods.
- Periodically calibrate the battery by fully discharging and recharging it.

RELIABLE POWER FOR UNINTERRUPTED LEARN AND PLAY



3-cell, 52.5 Wh
battery



Up to 7 hours
and 45 minutes



Figure 8: The HP Victus laptop's battery specifications and estimated usage time.

4.3 Software and Driver Updates

Regularly check for and install operating system updates (Windows Update) and driver updates (HP Support Assistant or HP website) to ensure optimal performance and security.

5. TROUBLESHOOTING

If you encounter issues with your HP Victus laptop, consider the following:

- **Performance Issues:** Ensure all Windows and driver updates are installed. Performance can be affected during background updates. Allow sufficient time for updates to complete.
- **Battery Drain:** If battery life is significantly shorter than expected, check power settings, close unnecessary background applications, and ensure drivers are up to date. Contact support if the issue persists after these steps.
- **Display Anomalies (e.g., Red Light at Edges):** Some users have reported temporary screen anomalies upon restart. If this occurs, monitor if it resolves itself quickly. If it persists or worsens, contact HP support.

- **Defective Product/Hardware Errors:** If you receive error messages like 'Primary (Internal) battery (601)', this indicates a hardware fault. Immediately contact HP support for diagnosis and potential warranty service.
- **Warranty Date Discrepancy:** If your product's warranty date appears incorrect, contact HP support with your purchase invoice to rectify the warranty start date.

6. SPECIFICATIONS

Feature	Detail
Brand	HP
Model Name	HP Laptop
Model Number	A9NC2PA
Screen Size	39.6 Centimetres (15.6 inches)
Display Type	LED IPS, Anti-Glare
Native Resolution	1920 x 1080 pixels (Full HD)
Refresh Rate	144 Hz
Response Time	9 ms
Colour	Performance Blue
CPU Model	Intel Core i5-12450H
Processor Speed	4.4 GHz (Max Turbo)
RAM Memory Installed Size	16 GB DDR4 SDRAM
Hard Disk Size	512 GB SSD (PCIe Gen4)
Graphics Card	Dedicated NVIDIA GeForce RTX 3050A
Graphics RAM Size	4 GB
Operating System	Windows 11 Home
Pre-installed Software	Microsoft Office Home & Student 2021
Wireless Technology	Wi-Fi 6E, Bluetooth 5.3
Ports	3x USB, 1x HDMI 2.1, 1x RJ-45, 1x Headphone/Mic Combo
Battery Cell Type	Lithium Polymer
Battery Life (Average)	7.45 Hours
Item Weight	2.29 Kilograms
Item Dimensions (L x W x Thickness)	24L x 358W x 255Th Millimeters

7. WARRANTY AND SUPPORT

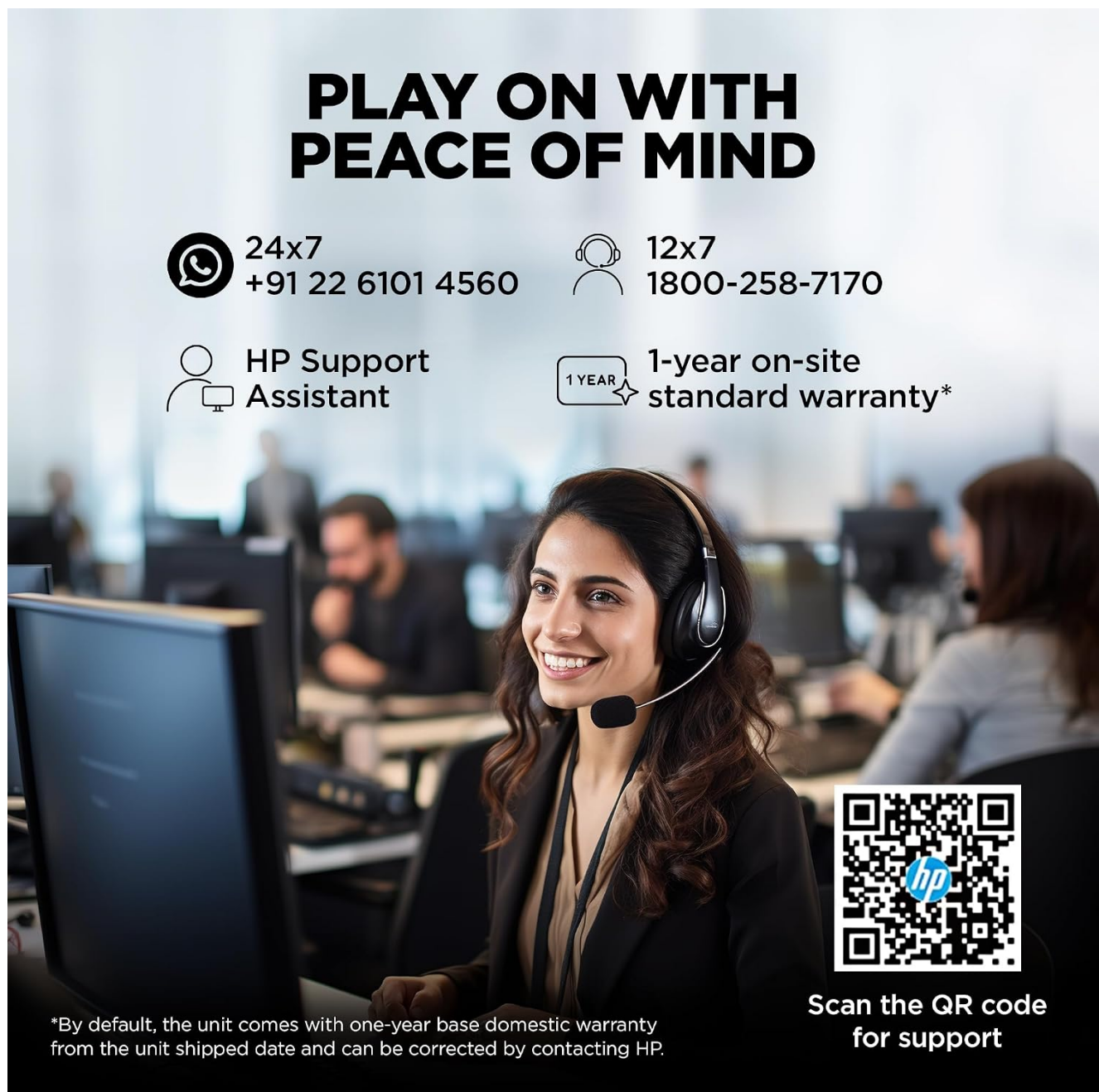
7.1 Warranty Information

Your HP Victus Gaming Laptop comes with a **1-year (1/1/0) limited warranty**, which includes 1 year of parts and labor. On-site repair is not included. Terms and conditions may vary by country, and certain restrictions and exclusions apply. The warranty period typically starts from the unit's shipped date. If there is a discrepancy, contact HP support with your purchase invoice.

7.2 Customer Support

For technical assistance, warranty claims, or any product-related queries, please contact HP Support:

- **HP Support Assistant:** Utilize the pre-installed HP Support Assistant application for diagnostics, updates, and support resources.
- **Online Support:** Visit the official HP Digital Support website: [HP Digital Support](#)
- **Phone Support:** Refer to the contact numbers provided on the product packaging or HP's official website for your region.



**PLAY ON WITH
PEACE OF MIND**

 **24x7**
+91 22 6101 4560

 **12x7**
1800-258-7170

 **HP Support
Assistant**

 **1-year on-site
standard warranty***



**Scan the QR code
for support**

*By default, the unit comes with one-year base domestic warranty from the unit shipped date and can be corrected by contacting HP.

Figure 9: HP support options and warranty details for peace of mind.

