Acer PHW920

Acer Predator Galea 350 Gaming Headset User Manual

Model: PHW920

Brand: Acer

Introduction

The Acer Predator Galea 350 is a wired gaming headset designed for immersive audio experiences and clear communication. It features 7.1 virtual surround sound, a unidirectional noise-cancelling microphone, and an inline audio control box for easy management. This headset is compatible with PC, Xbox One S, and PS4 systems.

What's in the Box

- Predator Galea 350 Gaming Headset with Microphone
- 7.1 Surround Sound Audio Control Box
- Warranty Booklet
- Quick Start Guide

Key Features

- **7.1 Virtual Surround Sound:** Provides immersive audio, allowing users to detect subtle sounds and directional cues in games.
- **Audio Control Box:** Allows selection between Game, Music, or Movie audio modes for optimized sound profiles.
- **50mm Neodymium Dynamic Drivers:** Delivers high-quality audio with enhanced bass response.
- **Acer TrueHarmony Tuning:** Optimizes audio drivers for balanced pitch, loudness, and timbre, enhancing clarity for both gameplay and music.
- **Unidirectional Noise-Cancelling Boom Microphone:** A flexible, retractable microphone designed to capture the user's voice while minimizing background noise.

- **Comfortable Design:** Features ergonomic over-ear cups with soft foam cushions and PU leather, along with an adjustable headband for a secure fit.
- **Wide Frequency Response:** Headset operates from 20Hz to 20KHz; microphone from 100Hz to 10KHz.
- **Broad Compatibility:** Connects via 3.5mm plug (headset) and USB (control box), compatible with Windows 7/8/8.1/10, PC, Xbox One S, and PS4.
- **Durable Construction:** Includes a braided 3.93-foot cable.

Setup Guide

1. **Connect the Headset:** Plug the 3.5mm jack from the headset into the audio control box.
2. **Connect the Audio Control Box:** Plug the USB connector from the audio control box into an available USB port on your PC, Xbox One S, or PS4.
3. **Adjust Fit:** Adjust the headband and earcups for a comfortable and secure fit. The earcups feature soft foam cushions and PU leather.
4. **Position Microphone:** Extend and position the flexible, unidirectional noise-cancelling boom microphone near your mouth for optimal voice capture.
5. **System Configuration (PC):**
   - Ensure your operating system (Windows 7, 8, 8.1, or 10) recognizes the headset as the default audio input and output device.
   - Adjust volume levels in your system settings as needed.

Figure 1: Diagram showing the headset's 3.5mm jack connecting to the audio control box, which

then connects via USB to a computer. Labels indicate soft foam cushion earcups, adjustable headband, and unidirectional noise-cancelling boom mic.

OPERATING INSTRUCTIONS

Audio Control Box

The inline audio control box allows you to manage sound settings and microphone functions.

- **Volume Control:** Use the dedicated volume wheel or buttons on the control box to adjust the headset's audio output level.
- **Microphone Mute:** A switch or button on the control box allows you to quickly mute or unmute the microphone.
- **EQ Mode Selection:** Press the EQ button to cycle through different audio modes:
  - **Game Mode:** Optimized for gaming, enhancing directional audio and effects like footsteps and gunshots.
  - **Music Mode:** Balanced audio profile for listening to music.
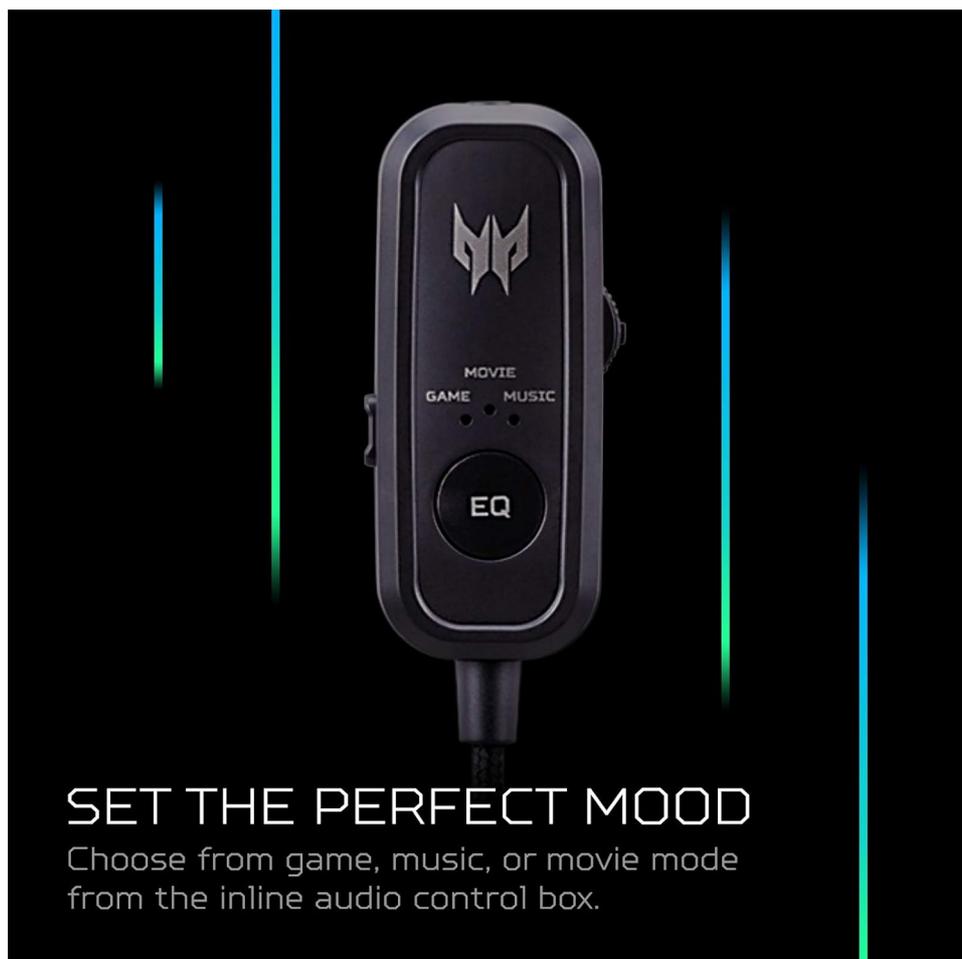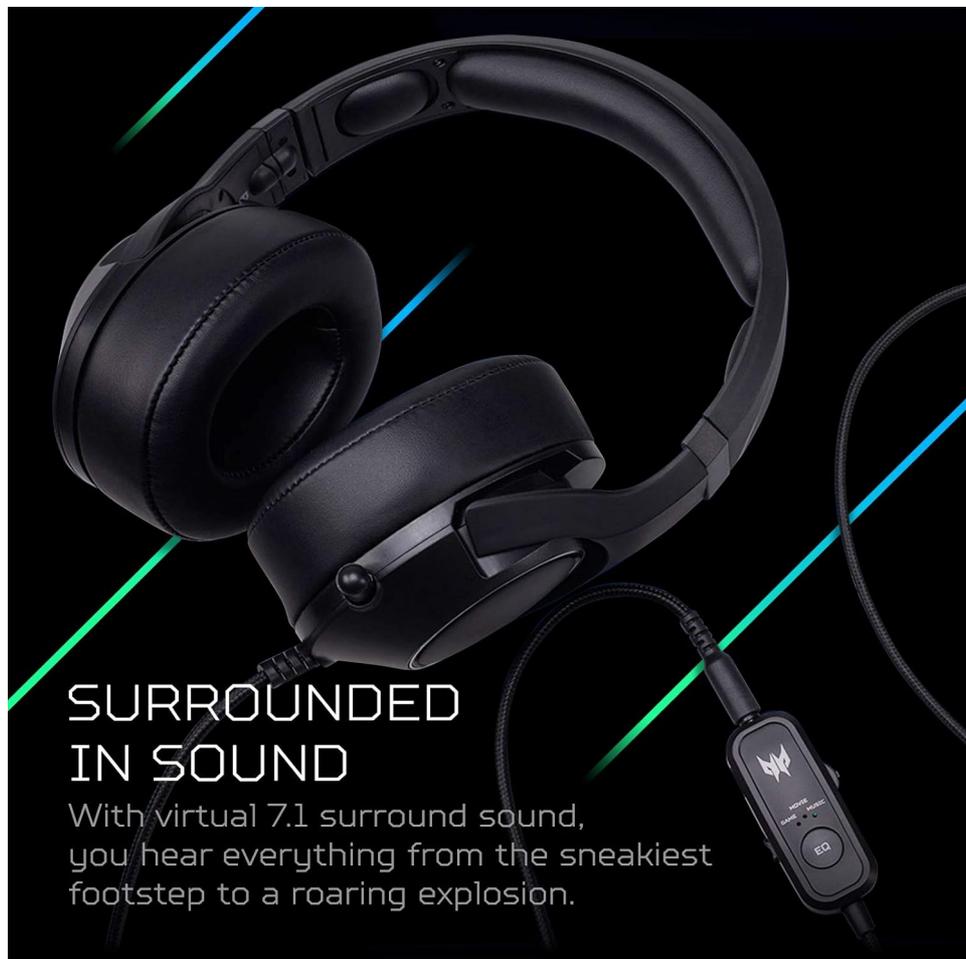 - **Movie Mode:** Enhanced for cinematic experiences with broader soundscapes.

Figure 2: The inline audio control box with buttons for EQ mode selection (Game, Music, Movie) and volume control.

7.1 Virtual Surround Sound

The headset provides 7.1 virtual surround sound, creating a spatial audio experience that helps in pinpointing sound sources in games. This feature is automatically enabled when the headset is connected via the USB audio control box.

Figure 3: Visual representation of the 7.1 virtual surround sound capability, illustrating how audio cues are perceived from different directions.

Unidirectional Noise-Cancelling Microphone

The retractable boom microphone is designed to focus on your voice while reducing ambient noise, ensuring clear communication with teammates.
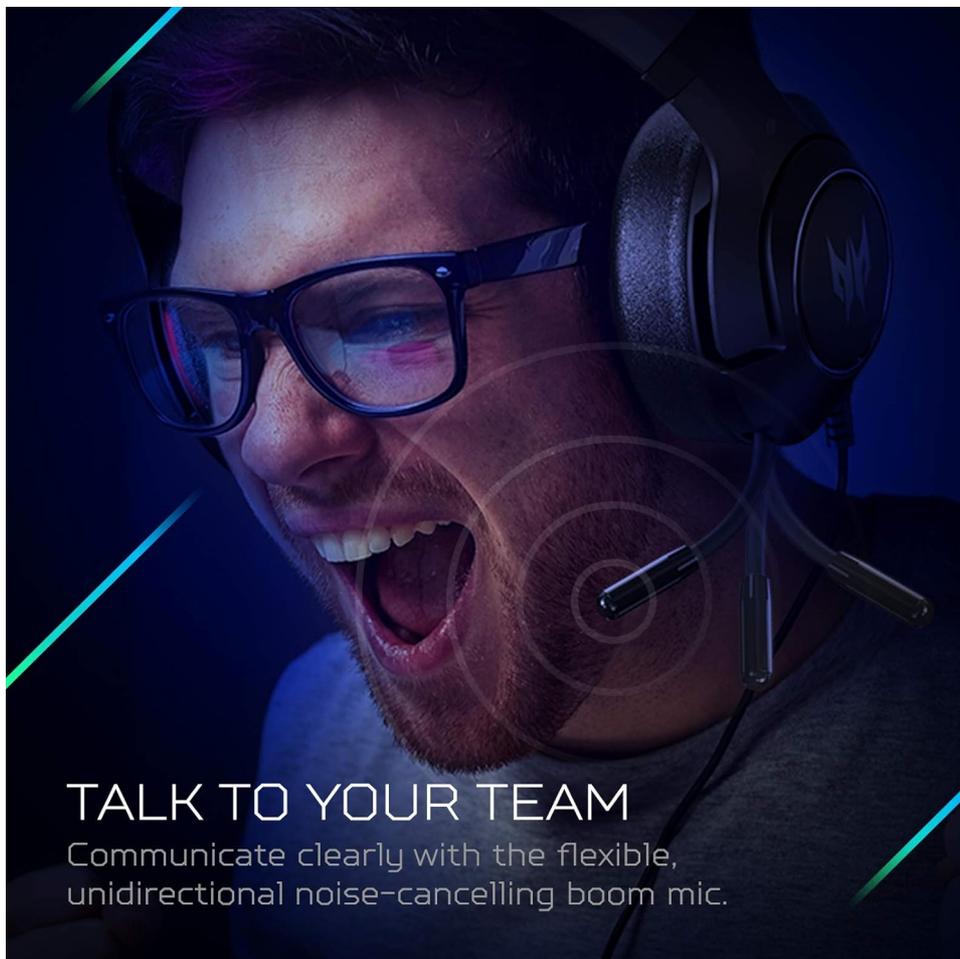
Figure 4: A user speaking into the flexible, unidirectional noise-cancelling boom microphone of the headset.

Product Overview Video

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This video provides a visual overview of the Predator Galea 350 Gaming Headset, demonstrating its features such as 7.1 surround sound, audio modes, and microphone functionality.

MAINTENANCE

- **Cleaning Earcups:** Gently wipe the faux leather earcups with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Microphone Care:** Keep the microphone clean and free from dust. When not in use, retract the boom mic to protect it.
- **Cable Management:** Avoid sharp bends or excessive pulling on the braided cable to prevent damage.
- **Storage:** Store the headset in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

No Sound from Headset:

- Ensure the 3.5mm jack is fully inserted into the audio control box.

- Verify the USB connector of the audio control box is securely plugged into your device.
- Check the volume level on the inline control box and your operating system.
- Confirm the headset is selected as the default audio output device in your system settings.

Microphone Not Working:

- Ensure the microphone is not muted via the inline control box.
- Check that the microphone boom is properly extended and positioned.
- Verify the headset microphone is selected as the default input device in your system's sound settings.
- Test the microphone with another application or device to rule out software issues.

Poor Sound Quality or Distortion:

- Try switching between the Game, Music, and Movie EQ modes on the audio control box to see if a different profile improves sound.
- Ensure all connections are secure.
- Reduce the volume if distortion occurs at high levels.

Headset Uncomfortable:

- Adjust the headband for a looser or tighter fit.
- Ensure earcups are properly positioned over your ears.

SPECIFICATIONS

Brand	Acer
Model Number	PHW920
Color	Black
Ear Placement	Over Ear
Form Factor	On Ear
Impedance	32 Ohms
Item Weight	0.35 Kilograms
Noise Control	Active Noise Cancellation (for mic)
Headset Frequency Response	20Hz to 20KHz
Microphone Frequency Response	100Hz to 10KHz
Sensitivity	100 dB
Audio Driver Size	50 Millimeters
Connectivity Technology	Wired (3.5mm Jack, USB for control box)

Compatible Devices	Gaming Consoles (Xbox One S, PS4), Computers (Windows 7/8/8.1/10)
Cable Features	Braided, 3.93 feet (approx. 1.2 meters)
Material	Faux Leather (earcups)

WARRANTY AND SUPPORT

The Acer Predator Galea 350 Gaming Headset comes with a **1-year parts and labor limited warranty**. For detailed warranty information, technical support, or to access additional resources, please refer to the Warranty Booklet included in your package or visit the official Acer support website:
Acer Official Store