

NVIDIA 945-12897-2500-101

NVIDIA SHIELD Android TV Pro Streaming Media Player User Manual

Brand: NVIDIA

Model: 945-12897-2500-101

1. INTRODUCTION

The NVIDIA SHIELD TV Pro is the ultimate streaming media player designed for the modern living room. It delivers a cinematic experience with high-quality 4K HDR entertainment, including support for Dolby Vision and Dolby Atmos. This device is powered by the Tegra X1+ processor, enabling real-time AI-enhanced upscaling of HD video to 4K for clearer and crisper visuals.

Key features include:

- **4K HDR Content:** Access a vast library of 4K HDR content from popular streaming services like Netflix, Amazon Video, Apple TV+, Disney+, Google Play Movies & TV, and YouTube, and Hulu. Built-in Chromecast 4K allows streaming directly from your phone.
- **AI-Enhanced Upscaling:** Real-time conversion of HD video to 4K using advanced AI for superior visual clarity.
- **GeForce NOW Cloud Gaming:** Transforms SHIELD TV into a powerful PC gaming rig, offering access to over 1000+ titles and nearly 100 free-to-play games. The GeForce NOW RTX 3080 membership provides 4K HDR gaming, ray tracing, and DLSS graphics.
- **Voice Control:** Integrated Google Assistant allows voice commands for TV control, content playback, smart home device management, and more. Compatible with Alexa and Google Home for hands-free control.
- **Expanded Storage & Connectivity:** Features 16 GB of storage, 3 GB RAM, and two USB 3.0 ports for storage expansion, connecting USB cameras, keyboards, controllers, and TV tuners. Includes built-in Plex Media Server.

2. SETUP GUIDE

1. **Connect Power:** Plug the power adapter into the SHIELD TV Pro and then into a wall outlet.
2. **Connect to TV:** Use an HDMI cable to connect the SHIELD TV Pro to an available HDMI input on your television. Ensure your TV supports 4K HDR for optimal viewing.
3. **Network Connection:**
 - **Wired (Recommended):** Connect an Ethernet cable from your router to the Gigabit Ethernet port on the SHIELD TV Pro.
 - **Wireless:** If using Wi-Fi, the device will prompt you to connect to your wireless network during the initial setup.
4. **Pair Remote:** The included remote control should automatically pair with the SHIELD TV Pro. If not, follow the on-screen instructions or press and hold the NVIDIA button on the remote until it pairs.
5. **Initial Setup:** Follow the on-screen prompts to complete the initial setup, including connecting to your Google account, installing essential apps, and configuring display and audio settings.

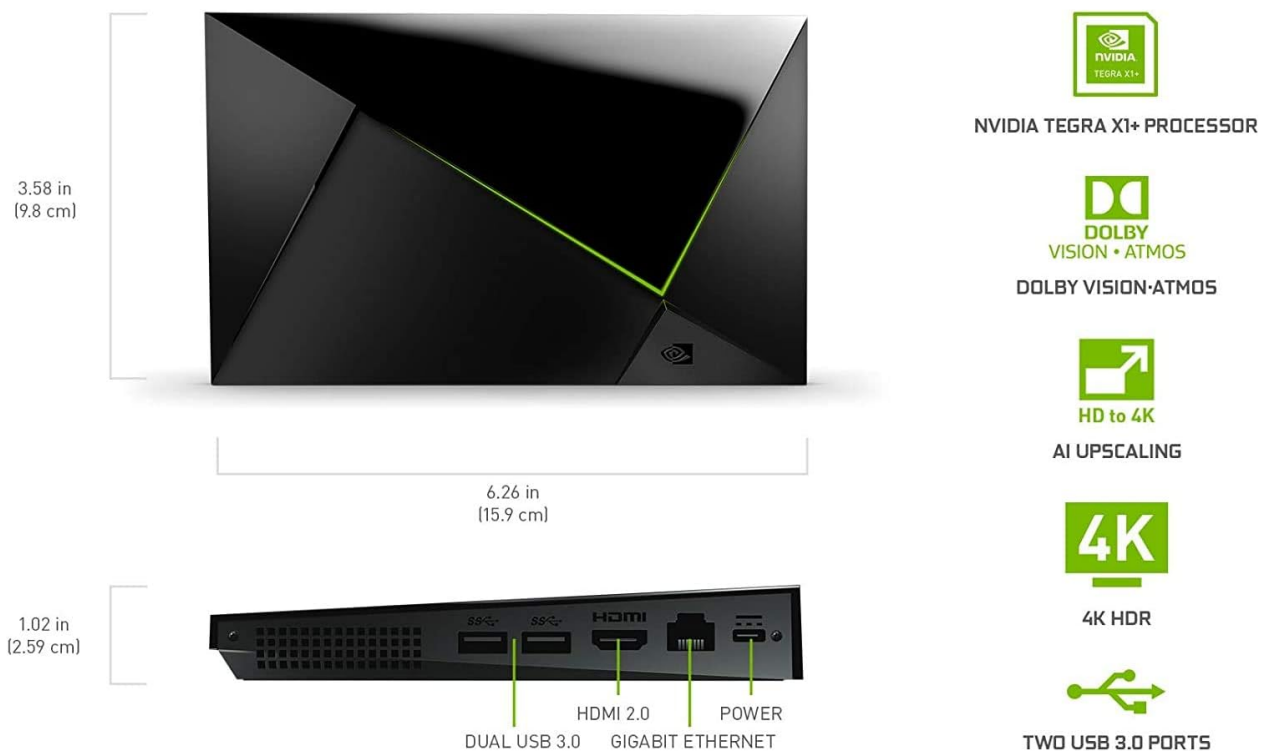


Image: Rear view of the NVIDIA SHIELD TV Pro showing HDMI, USB 3.0, Ethernet, and power ports, along with device dimensions.

3. OPERATING INSTRUCTIONS

3.1 Media Playback and Streaming

The NVIDIA SHIELD TV Pro provides access to a wide range of streaming services and media playback options. Navigate the Android TV interface using the remote control to select your desired apps and content.

- **Streaming Apps:** Launch pre-installed apps like Netflix, Amazon Video, Apple TV+, Disney+, and YouTube for 4K HDR content.
- **Chromecast 4K:** Cast content directly from your compatible mobile devices to the SHIELD TV Pro.
- **Plex Media Server:** Utilize the built-in Plex Media Server to organize and stream your personal media collection from connected storage devices or network-attached storage (NAS).

3.2 AI-Enhanced Upscaling

The Tegra X1+ processor uses artificial intelligence to upscale lower-resolution content (like 1080p HD) to 4K in real-time. This feature automatically enhances the clarity and sharpness of non-4K content, providing a more immersive viewing experience.



HD -> 4K Simulated Upscaling

Image: Visual comparison demonstrating the improved clarity of AI-enhanced upscaling versus basic upscaling.

3.3 Gaming with GeForce NOW

Transform your SHIELD TV Pro into a powerful gaming machine with GeForce NOW. This cloud gaming service allows you to stream PC games directly to your device without needing a high-end gaming PC.

- **Access Games:** Browse and play a vast library of PC games, including many free-to-play titles.
- **RTX 3080 Membership:** For the ultimate experience, subscribe to the GeForce NOW RTX 3080 membership to unlock 4K HDR gaming, ray tracing, and DLSS graphics on supported titles.
- **Controller Support:** Connect compatible game controllers (e.g., Xbox, PlayStation, or NVIDIA SHIELD Controller) via Bluetooth or USB for an immersive gaming experience.

3.4 Voice Control and Smart Home Integration



The SHIELD TV Pro features built-in Google Assistant and works seamlessly with Alexa, allowing you to control your entertainment and smart home devices using voice commands.

- **Google Assistant:** Press the Google Assistant button on your remote or use a connected Google Home device to ask questions, control playback, search for content, and manage smart home devices.
- **Alexa Integration:** Link your SHIELD TV Pro to an Amazon Echo device to control it hands-free using Alexa voice commands.

“DID THE ATHLETICS WIN LAST NIGHT?”

MLB · Milwaukee Brewers vs Oakland Athletics

MLB Regular Season · Oakland-Alameda County Coliseum · Oakland, California

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| | | | | | OAK (61 - 47) | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 7 | 0 |

Did the Athletics win yesterday? MLB standings



Image: Example of using Google Assistant to display sports scores on the TV screen.

4. MEDIA INTEGRATION

4.1 Product Images



Image: The NVIDIA SHIELD Android TV Pro Streaming Media Player, showcasing its sleek design.



Image: The NVIDIA SHIELD TV Pro positioned vertically with an optional stand (sold separately).



MICROPHONE FOR VOICE CONTROL

BLUETOOTH CONNECTIVITY

MOTION-ACTIVATED BACKLIT BUTTONS

LOST-REMOTE LOCATOR

IR FOR TV CONTROL

2X AAA BATTERIES INCLUDED

Image: Detailed view of the NVIDIA SHIELD TV Pro remote control, highlighting its microphone for voice control, Bluetooth connectivity, motion-activated backlit buttons, lost-remote locator, IR for TV control, and AAA battery compartment.

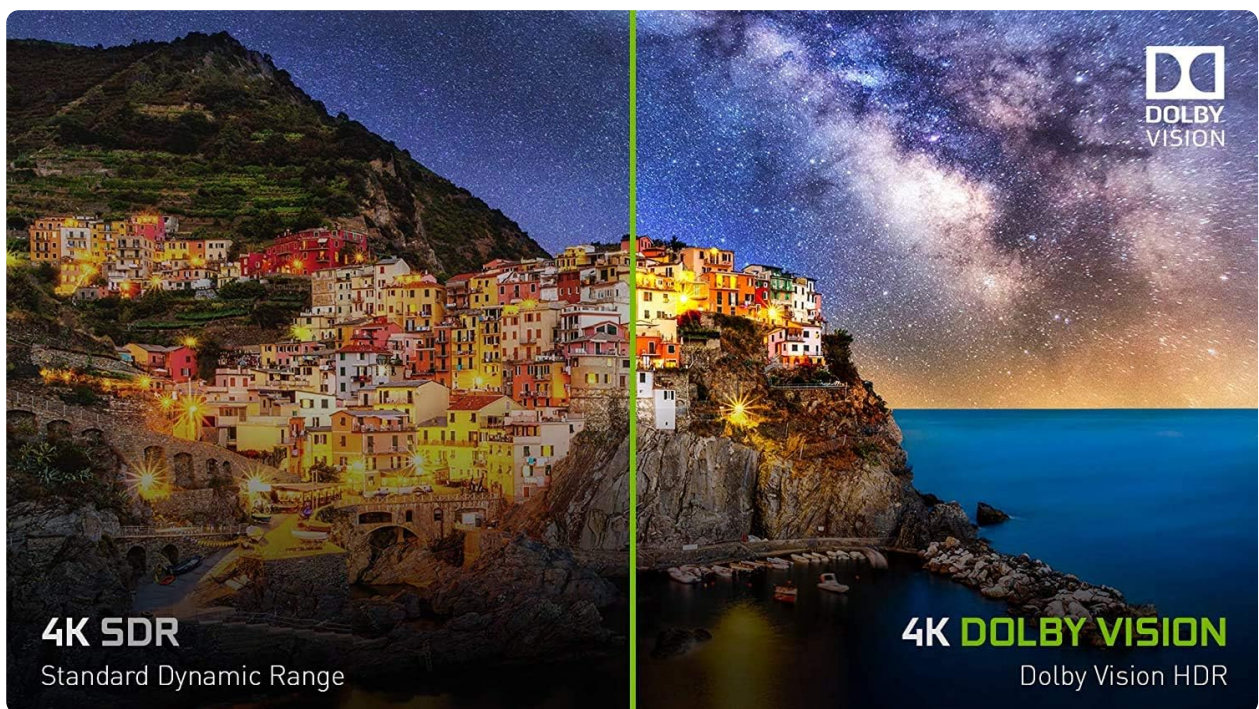


Image: A side-by-side comparison illustrating the visual difference between 4K Standard Dynamic Range (SDR) and 4K Dolby Vision, showcasing enhanced color and contrast.

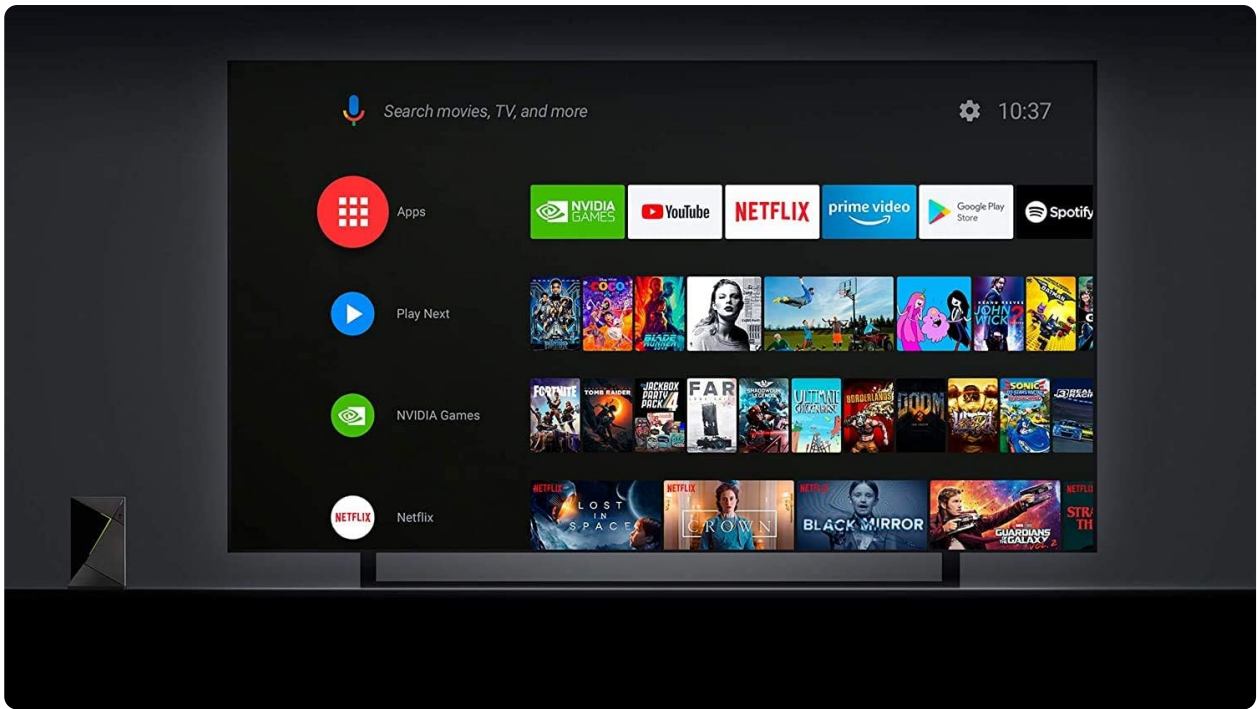


Image: The main Android TV interface of the NVIDIA SHIELD TV Pro, displaying various streaming apps and content recommendations.

4.2 Official Product Videos

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Video: A brief product overview highlighting the key features and design of the NVIDIA SHIELD TV Pro.

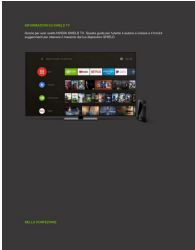

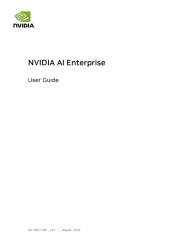
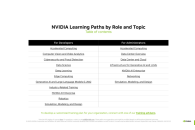

5. TROUBLESHOOTING

For detailed troubleshooting steps and solutions to common issues, please refer to the official Troubleshooting Guide.

[Download Troubleshooting Guide \(PDF\)](#)

6. SPECIFICATIONS

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|--------------------|---------------------------|
| Brand | NVIDIA |
| Model Name | NVIDIA SHIELD TV Pro |
| Item Model Number | 945-12897-2500-101 |
| Product Dimensions | 1.02 x 6.26 x 3.86 inches |
| Item Weight | 2.1 pounds |
| Color | Black |
| Resolution | 4K |

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|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Guida Utente NVIDIA SHIELD TV: Configurazione, Funzionalità e Gaming</p> <p>Guida completa per NVIDIA SHIELD TV. Impara a configurare il dispositivo, utilizzare il telecomando, sfruttare l'Assistente Google, giocare con GeForce NOW e GameStream, e ottimizzare la tua esperienza multimediale.</p> |
|  | <p>NVIDIA SHIELD Troubleshooting Guide: Fix Connectivity, Audio, Storage, and Network Issues</p> <p>Comprehensive troubleshooting guide for NVIDIA SHIELD devices. Resolve common problems with accessories, audio/video, storage, networking, and GeForce NOW. Includes step-by-step solutions.</p> |
|  | <p>NVIDIA AI Enterprise User Guide: Installation, Configuration, and Management</p> <p>Comprehensive user guide for NVIDIA AI Enterprise, detailing installation, configuration, and management of NVIDIA vGPU, AI frameworks, and software components across various hypervisors and operating systems.</p> |
|  | <p>NVIDIA Learning Paths: AI, Deep Learning, Data Science, and More</p> <p>Discover NVIDIA's comprehensive learning paths covering AI, Deep Learning, Data Science, Accelerated Computing, Cybersecurity, Robotics, Networking, and more. Find self-paced courses, instructor-led workshops, and certifications for developers and administrators.</p> |
|  | <p>NVIDIA Jetson Nano Developer Kit: Affordable AI Computing</p> <p>Explore the NVIDIA Jetson Nano Developer Kit, a low-cost AI computer designed for developers, learners, and makers. Run modern AI workloads, including image classification and object detection, with its powerful GPU and extensive I/O.</p> |