

Microsoft Flight Simulator

2024 Made Simple

A Practical and Realistic Flying Guide

Beck Vale

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Microsoft Flight Simulator 2024 continues to evolve through updates, patches, downloadable content, feature enhancements, and service changes. As a result, certain menus, screenshots, aircraft systems, airports, missions, weather features, career content, interface elements, hardware support,

online functionality, or system requirements described in this book may differ from what readers experience after future releases or regional updates.

Although this guide explains aviation principles and simulator operation, it is not intended to replace professional flight instruction, aviation certification programs, or training provided by licensed instructors, approved flight schools, or aviation authorities. Microsoft Flight Simulator 2024 is designed primarily as a simulation and entertainment platform, and users should not depend solely on simulator experience when making decisions related to real-world flight operations.

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Printed in the United States of America

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CHAPTER 1 - Welcome to Microsoft Flight Simulator

2024

Somewhere right now, a small aircraft is climbing out over real mountains, its pilot easing back on the yoke as the ground falls away and the horizon tilts gently into view. In a few chapters, that pilot could be you — not just clicking buttons, but genuinely flying, the way someone who has actually learned the skill flies. Microsoft Flight Simulator 2024 is not just a game — it is the closest thing most of us will ever get to sitting in the left seat of a real aircraft, and this book is written to make sure that closeness is earned honestly, one solid habit at a time, rather than stumbled into by trial and error.

This chapter gets you from “I just bought this” to “I understand what I’m looking at and I’m ready to fly,” with no wasted steps. Everything here is practical: what to check before you buy, what actually changed from the 2020 version, which platform and edition make sense for you, how to install it correctly the first time, and how to use the rest of this book so you build real flying skills rather than just clicking through menus.

Take your time with this chapter even if you're itching to get into the cockpit. Every hour spent getting the foundation right here saves you several hours of troubleshooting later — corrupted installs, misconfigured streaming settings, and edition regrets are almost always traceable back to a decision made in the first thirty minutes of ownership. Think of this chapter the way a real student pilot thinks of their very first visit to a flight school: less about flying yet, more about making sure everything around the flying is set up to actually let you learn.

By the end of this chapter, you'll have made every foundational decision this simulator asks of you — edition, platform, installation, and first-launch settings — and made them deliberately rather than by default. That alone puts you ahead of a large share of new pilots, who skip straight to flying and spend their first few weeks quietly fighting settings they never chose on purpose.

1.1 What's Actually New in the 2024 Version

Before getting into specifics, it's worth pausing on what you're actually working toward. This book is about building the skill and confidence to sit at a flight deck like the one below, understand what every gauge is telling you, and fly with the same discipline a real pilot would.

If you've flown the 2020 edition before, here is what matters most in practice, not just on a marketing slide:

- Career Mode: a structured progression system that takes you from a first-solo student pilot through cargo runs, charters, and eventually airline-style flying — this is the backbone of the “realistic flying” approach this book teaches, and it's covered in full in Chapter 11.

- Rebuilt aircraft systems: many aircraft now simulate deeper failure modes, real checklists, and more accurate flight models, which is why Chapters 7 through 10 spend real time on procedures rather than shortcuts.
- Improved weather and live data: more accurate real-world weather modeling, which changes how you plan a flight (covered in Chapter 7).
- Streaming world data: the sim now pulls more scenery and data on demand, which is why your internet connection matters as much as your graphics card.
- Deeper economy and ownership systems: as you progress, you can earn toward and eventually own aircraft within your Career Mode profile, which adds a sense of consequence that the 2020 edition never had.
- Refreshed atmospheric and lighting engine: sunrises, sunset colors, and cloud shadows are noticeably more realistic, which matters more than it sounds once you start flying visual approaches in Chapter 10.

Why It's Worth Understanding the Differences

None of this means the sim is harder to learn. It means the payoff for learning it properly — the way this book teaches it — is bigger than it was in 2020. Every one of these systems rewards a pilot who understands procedures over one who simply memorizes button presses, which is exactly the gap this book is designed to close. If you're coming from the 2020 edition, resist the urge to assume your old habits transfer perfectly; a few sessions spent treating yourself as a genuine beginner again will pay off enormously once Career Mode and the rebuilt aircraft systems start rewarding real discipline.

It's also worth knowing that the 2024 edition receives regular content and stability updates, the same way the 2020 edition did throughout its life. Features, aircraft, and even entire world regions continue to be added well after initial release, which is one more reason this book focuses on durable, transferable skills — how to read a panel, how to plan a flight, how to talk to ATC — rather than on any single feature that might shift in a future update.



A pilot's-eye view at cruise altitude (original illustration)

1.2 Choosing the Right Edition

There are three editions, and the difference between them is content volume, not core simulation quality. The flight model, weather engine, and Career Mode are identical across all three — you are only paying for more aircraft and more handcrafted airports.

Microsoft Flight Simulator 2024

THREE EDITIONS. ENDLESS ADVENTURES.

STANDARD EDITION

The perfect starting point for every aspiring pilot.

DELUXE EDITION

Enhanced aircraft. More airports. More ways to explore.

PREMIUM DELUXE EDITION

Ultimate collection. Maximum variety. Unlimited skies.

CHOOSE YOUR EXPERIENCE

STANDARD EDITION	DELUXE EDITION	PREMIUM DELUXE EDITION
✈️ 40+ Aircraft	✈️ 70+ Aircraft	✈️ 100+ Aircraft
🏢 30+ Handcrafted Airports	🏢 35+ Handcrafted Airports	🏢 40+ Handcrafted Airports
🌐 Global Photogrammetry	🌐 Global Photogrammetry	🌐 Global Photogrammetry
☁️ Live Weather & Traffic	☁️ Live Weather & Traffic	☁️ Live Weather & Traffic
	★ Additional Missions & Challenges	★ Exclusive Missions & Challenges
		👑 Premium Bonus Content

🌍 EXPLORE THE WORLD

✈️ MASTER THE SKIES

📷 HANDCRAFTED REALISM

🏔️ LIMITLESS POSSIBILITIES

MSFS 2024 editions, lined up on the ramp

A few details the box art won't tell you, but that matter once you're actually flying:

- Every airport in the world exists in every edition — the difference is how many are hand-modeled in detail versus generated from satellite and elevation data. A generated airport is still fully usable for every lesson in this book.
- Aircraft exclusive to Deluxe and Premium Deluxe tend to be higher-complexity types (turboprops, light jets), which matters once you reach the aircraft systems training in Chapters 6 and 12 — but every core lesson before that works fine in a Standard-edition aircraft.

- Marketplace add-ons (extra aircraft, airports, and liveries) are sold separately from the edition itself and can be added to any edition at any time, so upgrading later never means losing progress or starting over.

Which Edition Is Actually Right for You

If your goal is simply to work through this book and build genuine flying skill, Standard is entirely sufficient — every session in Chapters 4 through 14 can be flown in a Standard-edition aircraft at a generated or handcrafted airport alike. Choose Deluxe if you already know you want to fly turboprops and light jets sooner rather than later, and Premium Deluxe only if you're confident you'll eventually want the widest possible aircraft roster for Career Mode's higher tiers in Chapter 11. There is no wrong choice here, only a choice that matches how far ahead you're comfortable planning today.

A useful way to think about it: buying a more expensive edition doesn't buy you more skill, and buying the cheapest edition doesn't hold your skill back. Every technique in this book — every checklist, every approach, every radio call — is identical across all three editions. The edition decision is purely about how much variety you want sitting in your hangar on day one, nothing more.

PRACTICAL ADVICE

If you're not sure yet whether you'll stick with simming, start with Standard. You can add aircraft and airports individually later through the in-sim Marketplace — you are never locked out of upgrading.

1.3 System Requirements — Check This Before You Install

This is the step most beginners skip, and it's the one that causes the most frustration in the first hour. Confirm your machine meets at least the minimum specification below before installing; if you're near the minimum, expect to fly with lower graphics settings, which is completely fine for learning procedures.

A few points that the spec sheet alone doesn't make obvious:

- Laptops with the recommended GPU still often run hotter and throttle performance during long flights — if you're on a laptop, a cooling pad is a worthwhile investment before you assume the sim itself is underperforming.
- VR support (covered in Chapter 12) roughly doubles the recommended GPU requirement, since the sim is rendering two high-resolution views simultaneously. Don't judge VR readiness by the standard spec sheet.
- An SSD isn't just about load times — busy airports stream scenery and building data continuously while you taxi, and a mechanical hard drive will cause stutters no CPU or GPU upgrade can fix.



Is your PC ready to fly?

What Happens If You're Right at the Minimum

Being at or near the minimum spec is not a reason to wait to start this book — it's simply a reason to be deliberate about your graphics settings from the very first flight. Lower terrain and object detail sliders, reduce render scale slightly, and disable features like ray-traced reflections if your specific aircraft offers them. None of the procedures taught in this book depend on graphics fidelity in any way; a stabilized approach flown on medium settings is just as valid a lesson as one flown at ultra.

It's also worth checking your specs again after any major sim update, not just once before your first install. World updates and engine improvements occasionally shift the recommended specification upward, and a machine that handled the sim comfortably at launch can start to feel strained a year later — not because anything is wrong with your hardware, but because the software itself has grown around it.

COMMON MISTAKE

A fast CPU cannot compensate for insufficient VRAM. If the sim stutters badly on the ground at busy airports, VRAM is almost always the bottleneck, not your processor.

1.4 Which Platform Is Right for You

MSFS 2024 is available in three practical forms, and the right one depends on what you already own and how you plan to fly:

- PC via Steam or Microsoft Store: the only option that supports third-party add-ons, external hardware profiles, and VR headsets — the right choice if you plan to follow this book's Career Mode and hardware chapters closely.
- Xbox Series X|S: the simplest path if you already own the console and don't plan to add third-party hardware beyond a basic joystick or wheel — every procedure in this book works identically on console.
- PC Game Pass: the cheapest way to try the sim before committing to a purchase, but it depends entirely on cloud streaming quality, so a poor connection will show up as stutters that have nothing to do with your PC's actual power.

Making the Platform Decision Simple

If you're already unsure which to pick, this matters less than people assume: every flying skill in this book — from checklist discipline to instrument scanning to ATC phraseology — transfers identically between all three. Pick based on what you already own and add hardware later. The only genuinely irreversible choice is third-party add-on compatibility (Chapter 12, section 12.5), which is PC-only — worth a moment's thought if that ecosystem matters to you, but not worth agonizing over if it doesn't.

If you're torn between PC and console specifically, ask yourself one honest question: do you already own, or plan to own, a joystick, yoke, or pedal set beyond a basic Xbox-compatible option? If yes, PC keeps every future hardware door open. If you're happy with a simpler, plug-and-play setup and don't see that changing, console removes an entire category of decisions from your plate permanently, and there's real value in that simplicity too.

THREE WAYS TO PLAY MICROSOFT FLIGHT SIMULATOR 2024

SAME SKY. YOUR WAY.

PC

(STEAM / MICROSOFT STORE)

ULTIMATE POWER & CUSTOMIZATION

- Best performance & graphics
- VR support
- Largest ecosystem of add-ons
- Ideal for enthusiast pilots

IDEAL FOR:

Pilots who want the best visuals, performance & flexibility.

XBOX SERIES X|S

SIMPLE. POWERFUL. CONSOLE.

- Optimized for console
- Plug & play experience
- Great performance at 4K
- Ideal for living room pilots

IDEAL FOR:

Pilots who want simplicity, performance & convenience.

XBOX GAME PASS

CLOUD GAMING

PLAY ANYWHERE. ANY DEVICE.

- Stream on a wide range of devices
- No high-end hardware required
- Always up to date
- Ideal for pilots on the go

IDEAL FOR:

Pilots who want freedom to play anywhere.

ONE SIMULATOR. ENDLESS POSSIBILITIES.

Microsoft

Flight Simulator 2024

Three ways to own and play MSFS 2024

1.5 Installing the Simulator — Step by Step

The overall path from purchase to your first flight follows the same six stages regardless of which store or platform you use:

8



Your path from purchase to first flight

Walking through it in detail:

- ☐ Confirm your specs against the chart above.
- ☐ Decide on an edition and platform using the comparisons above as a guide.
- ☐ Install through the Microsoft Store (Windows/Xbox) or Steam — both receive identical updates, so pick whichever platform you already use for other purchases.
- ☐ Allow the full initial download to finish before launching; interrupting it mid-install is the single most common cause of corrupted installations.

- ☐ On first launch, sign in with your Microsoft account and choose a data streaming mode (see 1.6 below).
- ☐ Go to Options > Controls and confirm your input device is detected before you fly — even if you plan to use keyboard and mouse initially.

Troubleshooting a Stuck or Failed Install

If installation fails partway through, the most common fix is to verify the game files (Steam: right-click the title, then Properties, then Local Files, then Verify; Microsoft Store: Settings, then Apps, then Microsoft Flight Simulator, then Advanced options, then Repair) before reinstalling from scratch, which wastes far more time than it saves. If verification doesn't resolve it, check your available disk space next — a nearly-full drive causes far more installation failures than any actual software bug, and it's worth ruling out before assuming something is broken.

It's also worth temporarily pausing any antivirus or firewall software that aggressively scans new files during a large install, since some security software mistakes the sim's rapid file-writing for suspicious activity and quietly throttles or blocks it. Re-enable that protection immediately after installation finishes — this is a one-time step for the initial download, not a standing recommendation to fly with your security software disabled.

1.6 First-Launch Decisions That Actually Matter

On your very first launch, the sim will ask a few questions that are easy to click through without understanding. These affect your experience significantly, so it's worth pausing on each one:

- Data streaming vs. local installation: streaming pulls world scenery live from the internet and needs less disk space, but requires a stable connection. If your internet is inconsistent, choose a larger local install instead — this is changed later in Options > General > Data.
- Cloud vs. local saves for Career Mode: since your career progression (covered in Chapter 11) is tracked over many sessions, keep this on cloud sync if you ever plan to fly from more than one PC.
- Graphics preset: the sim will suggest a preset based on your detected hardware. Accept it initially — you'll learn which individual settings matter most for smooth performance once you're flying busier airports in later chapters, and changing one setting at a time is far easier than guessing at a custom profile on day one.
- Controller and peripheral detection: if you already own a joystick, yoke, or pedals, plug them in before this step so the sim can offer its built-in profile for your specific device — this saves the manual button-mapping work covered in Chapter 2.

Getting the Data Streaming Choice Right the First Time

Of everything on this first-launch screen, the streaming decision is the one worth the most thought, because changing it later means re-downloading a meaningful amount of data. A simple rule: if your internet drops out even occasionally during a normal evening of browsing or streaming video, choose a larger local install now rather than fighting stutters and missing scenery for weeks before eventually switching anyway.

The graphics preset question deserves a similar level of care, even though it feels like the least important item on the list. A preset that's one notch too ambitious for your hardware doesn't just look choppy — it can make early flying lessons genuinely harder to learn, since a stuttering view makes it difficult to judge your sight picture on approach or hold a heading precisely. If in doubt, choose one notch below what the sim recommends for your hardware; you can always raise it later once you know how the sim actually performs during a real flight rather than just sitting on the main menu.

PRACTICAL ADVICE

Resist the urge to maximize every graphics slider on your first flight. A stable 30-40 fps with mid settings will teach you far more about actual flying than a stuttering, maxed-out scene will.

1.7 Your First 24 Hours: A Practical Onboarding Plan

New pilots who stick with the sim long-term almost always follow a similar early pattern. If you only have an hour or two to spend before diving into the rest of this book, spend it like this:

- ☐ Hour 1: Complete installation and the first-launch setup from sections 1.5 and 1.6 above, and confirm the sim reaches the Main Menu without errors.
- ☐ Hour 1 (continued): Read Chapter 2 and get your control method (even if it's just keyboard and mouse for now) recognized and calibrated.
- ☐ Hour 2: Complete the guided first flight in Chapter 4 with most flight assistance options left on, so you can focus purely on cause-and-effect rather than precision.
- ☐ End of session: Before closing the sim, browse the World Map for a moment and locate an airport near where you live — flying somewhere familiar in later chapters makes navigation lessons click faster.

Resist the temptation to jump straight into an airliner at a major international hub on day one. Every pilot in this book's approach starts small and local, for the same reason real student pilots do: smaller aircraft are more forgiving, and local airports let you focus on procedure instead of being overwhelmed by scenery and traffic.

What the First Week Usually Looks Like

If you keep a loose rhythm of a few short sessions a week rather than one long marathon, most new pilots find the first week unfolds naturally: day one is installation and a first flight; days two and three settle into Chapter 4's circuits until takeoff and landing feel less like a puzzle and more like a routine; by the end of the week, Chapter 5's aerodynamics start explaining things you've already felt in the controls rather than introducing entirely new ideas. There's no need to rush this pace — the sessions in this book are designed to reward patience over speed.

If your schedule only allows one longer session a week rather than several short ones, that's perfectly fine too — simply expect each session to cover a little more ground, and use the checklists at the end of each chapter to pick up exactly where you left off rather than restarting from the beginning every time.

1.8 How to Use the Rest of This Book

This book is built in the order you should actually learn, not in the order features appear in a menu:

- Chapters 2–4 get your hardware and interface sorted, then walk you through one complete guided flight so you have a reference point for everything after.
- Chapters 5–10 teach real flying: the aerodynamics behind what you're doing, how to read your instruments, and the procedures airline and GA pilots actually use, from pre-flight planning through landing and handling emergencies.
- Chapter 11 shows you how to turn that skill into progression through Career Mode.
- Chapter 12 rounds things out with aircraft types, world exploration, VR, multiplayer, and troubleshooting.
- Chapters 13 and 14 hand you eight complete, guided flight sessions — real airports, real aircraft, real weather challenges — written to be flown, not just read, once the fundamentals are in place.

Every chapter from Chapter 7 onward includes a checklist you can screenshot or print and keep next to your keyboard. That's deliberate: real pilots fly with checklists, not from memory, and treating this sim the same way is what makes the “realistic flying” approach in this book actually work.

1.9 Key Terms You'll See Throughout This Book

- Six-pack: the traditional set of six primary flight instruments (airspeed, attitude, altitude, turn coordinator, heading, and vertical speed), covered fully in Chapter 6.
- Glass cockpit: a modern instrument panel using digital screens (PFD and MFD) instead of analog gauges, also covered in Chapter 6.
- PFD / MFD: Primary Flight Display and Multi-Function Display — the two main screens in a glass cockpit.
- Stabilized approach: an approach flown at the correct speed, descent rate, and configuration well before landing, rather than corrected at the last moment — the standard this book's approach chapter (10) is built around.
- Slew mode: a no-physics test mode that lets you move the aircraft freely to check camera and control response, introduced in Chapter 2.
- ATC: Air Traffic Control — both the in-sim voice system and the real-world phraseology taught in Chapter 9.
- Cold and dark: a starting condition where the aircraft begins fully powered off, requiring a full engine-start procedure — the most realistic option, introduced properly in Chapter 4.

You don't need to memorize these now — each one is explained again in full the first time it matters. This list is simply here so nothing catches you off guard.

If a term ever comes up in a later chapter that isn't on this list or explained where it appears, it's worth a quick pause to look it up rather than pushing forward on a guess. Aviation, real or simulated, is full of precise language for a reason — the exact word usually carries exact meaning, and getting comfortable with that precision early makes every later chapter easier to follow.

1.10 Quick Answers to Common First-Time Questions

- “Do I need real-world flying knowledge to start?” No. This book assumes zero prior aviation background and builds every concept from the ground up starting in Chapter 5.
- “Can I fly with just a mouse and no joystick?” Yes — every procedure in this book works with keyboard and mouse. A yoke or joystick makes precision flying easier, but it is never required to learn correctly.
- “Will my progress carry over if I upgrade editions later?” Yes. Career Mode progress, settings, and any Marketplace add-ons are tied to your account, not your edition, so upgrading never resets anything.
- “Is an internet connection required to fly?” Only if you choose streaming-based world data or online multiplayer and live weather. Offline flying is fully supported with a local install, covered in section 1.6.
- “Should I feel intimidated by how complex this all looks right now?” No — every pilot who has ever felt confident in this sim started at exactly this page, looking at exactly this much unfamiliar information. It gets concrete and manageable one chapter at a time.
- “What if I make mistakes while I'm still learning?” Expect to, and treat each one as information rather than failure. Nothing in a simulator carries real consequences, which is exactly what makes it the safest possible place to build habits that matter.
- “How is this book different from just watching videos online?” Videos are great for a quick visual reference, but they rarely explain why a procedure works the way it does, or connect one lesson to the next. This book is built as a single, cumulative path — every chapter assumes and builds on the one before it, the way a real training syllabus does.

1.11 A Day in the Life: What Your Early Sessions Might Feel Like

It's worth knowing, before you start, roughly what to expect emotionally as well as technically. Your first session will likely feel slow and a little clumsy — menus that don't yet feel familiar, a control response that takes a few minutes to get used to, maybe a bumpy first landing that doesn't look anything like the smooth touchdowns you've seen in videos. This is completely normal, and it is not a sign you're doing anything wrong.

By your third or fourth session, something shifts. The menus stop requiring conscious thought. Your hands find the right keys or buttons without looking. And somewhere around the point where Chapter 4's circuits start feeling routine, flying stops being a technical exercise and starts being the thing you were actually hoping for when you bought this simulator in the first place — a genuine, absorbing sense of flight. That moment is worth being patient for, and this book is built to get you there as directly as possible.

Keep one more thing in mind as you go: every chapter from here forward assumes you'll actually sit down at the sim and fly what's described, not just read about it. Flying is a physical, practiced skill even in simulated form — your hands and eyes need repetition just as much as your understanding needs

explanation. The pilots who get the most out of this book are the ones who treat each chapter as an invitation to fly, not a chapter to check off a reading list.

BEFORE YOU MOVE ON

Confirm the sim has fully installed and updated, and that you can reach the Main Menu without errors, before starting Chapter 2. Chapter 2 assumes a completed installation and focuses entirely on setting up your controls correctly.

CHAPTER 2 - Setting Up Your Cockpit

Somewhere out there, a new pilot is fighting a yoke that feels like it has a mind of its own — overcorrecting every bump, chasing the horizon back and forth, wondering why the videos they watched online made it look so calm and effortless. Almost every time, the aircraft isn't the problem. The setup is. This chapter exists so that's never you.

How you control the aircraft matters more than almost any graphics setting. A perfectly configured input device will make landings, taxiing, and instrument scans feel natural within a few flights; a poorly configured one will make even straight-and-level flight frustrating, no matter how good your monitor is. This chapter walks through choosing a control method, wiring it up correctly in the sim, calibrating it properly, and setting the camera and assistance options that actually matter for someone learning to fly — not just play.

Treat this chapter as a one-time investment. Almost everything here only needs to be done once per device, and getting it right now means every later chapter — including the guided first flight in Chapter 4 — goes more smoothly. Think of it the way a real pilot thinks of adjusting their seat and mirrors before ever touching the throttle: unglamorous, easy to rush past, and absolutely worth the extra five minutes.

2.1 Choosing a Control Method

There is no single “correct” setup. What matters is matching your hardware to what you actually want out of the sim. If your goal is realistic, procedure-based flying (which is the focus of this book from Chapter 5 onward), a yoke or joystick with rudder pedals will get you there faster than any other option — but it isn't required to start. Plenty of pilots fly this entire book's curriculum on keyboard and mouse alone and come out the other side with genuinely solid skills.

- Keyboard & mouse: no extra hardware needed, fast for learning menus, but the hardest option for smooth, precise flying.
- Gamepad / controller: comfortable and familiar, with decent stick precision, though limited buttons make switches awkward.
- Yoke or joystick + pedals: the most realistic feel and the best option for career-mode flying, but it does need proper calibration (covered later in this chapter).
- Hybrid setups: many pilots mix a yoke or stick with a separate throttle quadrant and a small keypad for switches — this is a natural upgrade path once you know which aircraft types you enjoy flying most.

If you're undecided, start with keyboard and mouse for your first few flights so you can focus on understanding procedures, then add a joystick or yoke once you know you're sticking with it. Nothing you learn on keyboard and mouse is wasted — the procedures are identical regardless of hardware.