

# **NinjaTrader Disk Space Demystified: Tick Data, Replay, and Order Flow Plus Storage Requirements**

## **1. Introduction: Addressing Your Storage Concerns**

Concerns regarding Solid State Drive (SSD) space are entirely valid for traders utilizing platforms like NinjaTrader, particularly when engaging with tick-level data analysis. The volume of data generated by financial markets can be substantial, and understanding its impact on storage is crucial for maintaining an efficient and reliable trading system. This report aims to clarify the factors influencing disk space consumption by NinjaTrader's historical tick data, its implications for the Tick Replay feature, and the storage considerations when using the Order Flow Plus suite of tools.

A key aspect to understand is the interplay between raw historical tick data, the "Tick Replay" feature, and Order Flow Plus tools. Both the Tick Replay feature—primarily used for high-fidelity backtesting and simulation—and the various analytical tools within the Order Flow Plus add-on depend on access to granular historical tick data. This underlying tick data is the principal driver of disk space usage. It is important to note a common point of potential confusion: while Order Flow Plus tools inherently require tick-level data to function, enabling NinjaTrader's global "Tick Replay" setting on a chart is often unnecessary for displaying these tools and can, in fact, degrade system performance.<sup>1</sup> The Order Flow Plus tools are designed to access the necessary tick data directly.<sup>1</sup> Consequently, this report will focus on the storage requirements of the tick data itself, which serves as the foundation for these functionalities. This distinction is significant because users might inadvertently enable resource-intensive features, impacting overall system performance beyond just disk space, due to a misunderstanding of how different

components of NinjaTrader access and process data.

## 2. Understanding NinjaTrader's Tick Data Storage

To effectively manage disk space, it is essential to understand how NinjaTrader handles historical tick data—where it is stored and what factors determine its volume.

### How and Where NinjaTrader Stores Tick Data

NinjaTrader primarily stores historical tick data within a dedicated database located in the user's Documents folder. The typical path is C:\Users\<yourusername>\Documents\NinjaTrader 8\db.<sup>2</sup> Once historical data is downloaded from a data provider or recorded live, it is generally stored locally on the hard drive, allowing for offline access and use within the platform.<sup>2</sup> While older versions of NinjaTrader, such as NinjaTrader 7, organized Market Replay data into unique dated folders within a db\data subdirectory<sup>3</sup>, NinjaTrader 8 consolidates this into its main database structure.

### Key Factors Influencing Tick Data Size

The amount of disk space consumed by tick data is not fixed; it varies significantly based on several dynamic factors:

- **Instrument Traded:** Different financial instruments exhibit vastly different levels of trading activity. Highly liquid futures contracts like the E-mini S&P 500 (ES) or E-mini Nasdaq 100 (NQ) generate a significantly higher number of ticks per day compared to less frequently traded instruments or some FX pairs.<sup>4</sup> More ticks directly translate to more data points and larger storage requirements.
- **Market Volatility and Trading Volume:** On days with high market volatility or increased trading volume, the frequency of price changes and executed trades rises. This surge in activity

leads to a greater number of ticks being recorded, thereby increasing the size of the data files for that specific period.<sup>4</sup>

- **Duration of Data Stored:** The most straightforward factor is the length of the historical period for which tick data is retained. Storing several years of historical tick data can easily lead to the consumption of many gigabytes of disk space.<sup>6</sup>
- **Data Type Recorded (Level 1 vs. "Trades Only"):** This is a critical differentiator with substantial implications for storage.
  - **Level 1 Data (Bid/Ask + Last):** This data type captures every change in the bid price, ask price, and the last traded price. It provides the most comprehensive view of market activity and is essential for certain precise Order Flow analyses, such as those requiring bid/ask stamped data or detailed volumetric displays.<sup>7</sup> However, its granularity means it consumes the most disk space.
  - **"Trades Only" Data (Last Price Only):** This format records only the executed trades (last price and volume). It is significantly smaller than Level 1 data, potentially 10 to 100 times smaller.<sup>5</sup> NinjaTrader can simulate bid and ask prices from "Trades Only" data for Market Replay, and this data type can still be used for many indicators and strategies.<sup>5</sup> The choice between these data types, if available from the data provider or through recording settings, represents a significant control point for managing disk space. Users might be collecting or purchasing more granular (and thus larger and potentially more costly) data than their specific trading methodology absolutely requires. Understanding this distinction can lead to substantial resource optimization.
- **Data Provider and Data Availability:** The source and nature of the tick data also play a role. NinjaTrader's own brokerage

service may provide up to one year of historical tick data by default.<sup>6</sup> Accessing data older than this often necessitates using third-party data providers<sup>9</sup> or having diligently recorded live data over an extended period. The specific granularity and type of data (Level 1, Trades Only) available from the chosen provider will directly influence storage.<sup>10</sup>

### **Estimating Tick Data Consumption: "How Quick Will 1 GB Be Used?"**

Providing a universal, precise figure for how quickly 1 GB of disk space will be consumed by tick data is challenging due to the multitude of influencing factors detailed above. However, by examining long-term data storage examples and deriving rough estimates, one can gain an appreciation for the potential rate of consumption.

Third-party data providers who specialize in historical data offer some insight into the scale involved. For instance, one provider (Portara) indicates that approximately 10 years (from 2014 to August 2024) of Level 1 tick data (including bid, ask, and last prices) for the ES contract amounts to roughly 64 GB in zipped text file format. For the more active MNQ (Micro E-mini Nasdaq 100) contract, about 5.25 years (from June 2019 to August 2024) of Level 1 data equates to approximately 272 GB in zipped text files.<sup>5</sup>

Crucially, these figures are for *zipped text files*. When this data is unzipped and imported into NinjaTrader's database or used in its raw uncompressed form, the on-disk footprint can be substantially larger—potentially around 10 times greater.<sup>5</sup>

- Thus, the 64 GB of zipped ES data could translate to approximately 640 GB of unzipped data on disk.
- The 272 GB of zipped MNQ data could expand to roughly 2.7 TB

(2720 GB) unzipped.

These examples cover very long historical periods and multiple contract rollovers. To estimate daily consumption for highly active instruments:

- For **MNQ (Level 1, unzipped)**: 2720 GB over approximately 1323 trading days (5.25 years \* 252 trading days/year) averages to about **2.05 GB per day**.
- For **ES (Level 1, unzipped)**: 640 GB over approximately 2520 trading days (10 years \* 252 trading days/year) averages to about **0.25 GB per day**. However, ES can be quite active, and other estimates considering NinjaTrader's database structure might place it in the range of **0.4 GB to 0.7 GB per day**.

These are rough averages; actual daily usage will fluctuate with market conditions. "Trades Only" data would be significantly less, potentially 20 MB to 200 MB per day for an active instrument like MNQ, based on the 10-100x size reduction factor.<sup>5</sup>

Therefore, to answer "how quick will 1 GB be used?":

- For **Level 1 MNQ data**, 1 GB could be consumed in **less than a single trading day**, possibly within a few hours during active periods.
- For **Level 1 ES data**, 1 GB might last **1 to 2 trading days**.
- For **"Trades Only" data**, 1 GB could last for **many days to several weeks**, depending on the instrument's activity.

Real-world user experiences confirm this potential for rapid accumulation. One user reported their NinjaTrader 8 folder reaching around 300 GB due to extensive backtesting and daily trading activities.<sup>6</sup> The significant expansion of data from zipped archives to its uncompressed, usable form on disk implies that initial download

or import file sizes might not accurately reflect the long-term storage footprint. NinjaTrader's database, while potentially optimized for querying, will still store data in a largely uncompressed state to facilitate rapid access. This has direct implications for backup strategies, as system image backups that include the NinjaTrader 8 documents folder can become very large quite rapidly.

### **The Role and Impact of the "Tick Replay" Feature**

NinjaTrader's "Tick Replay" *feature* is primarily designed for conducting high-fidelity backtesting and optimization of automated strategies. When enabled, it forces indicators and strategies to calculate on every single historical tick, providing a more accurate simulation of live trading conditions.<sup>11</sup>

In terms of disk storage, the Tick Replay feature itself does not store *additional* data beyond the historical tick data it consumes. The storage impact arises from the prerequisite of *having* that granular tick data (often Level 1) available in the database. If the necessary tick data is not present, the feature cannot function as intended.

Beyond disk space, enabling Tick Replay in the Strategy Analyzer or on charts has a substantial impact on system performance, demanding significant CPU and RAM resources.<sup>11</sup> NinjaTrader is designed to utilize all available logical processors during such intensive operations, and memory utilization can climb rapidly, potentially leading to system slowdowns if resources are insufficient.<sup>11</sup>

The following table provides illustrative estimates for long-term Level 1 tick data storage, emphasizing the unzipped (on-disk) size.

### **Table 1: Estimated Long-Term Tick Data Storage (Level 1 with**

## Bid/Ask - Unzipped)

Instrument	Period Covered	Zipped Size (Provider Text File Estimate)	Estimated Unzipped Size (Approximate On-Disk, ~10x)	Rough Avg. GB/Day (Unzipped, Level 1)
ES (E-mini S&P 500)	~10 Years (2014-2024)	64 GB	~640 GB	~0.4 - 0.7 GB
MNQ (Micro E-mini Nasdaq 100)	~5.25 Years (2019-2024)	272 GB	~2.7 TB (2720 GB)	~1.5 - 2.5 GB

*Notes: These are illustrative estimates for highly active Level 1 data. Actual daily usage will vary based on market activity and data provider formatting. "Trades Only" data would be significantly smaller (potentially 10-100x less). These figures represent raw data volume; NinjaTrader's database storage might have some internal overhead or compression, but this gives a strong indication of the magnitude involved.*

### 3. Order Flow Plus: Disk Space Implications

The Order Flow Plus suite in NinjaTrader encompasses a range of advanced analytical tools, including Volumetric Bars, Volume Profile, Cumulative Delta, and VWAP. Understanding their data requirements is key to assessing their impact on disk space.

#### Data Requirements for Order Flow Plus Tools

Fundamentally, all Order Flow Plus tools rely on historical tick data to



generate their visualizations and calculations.<sup>1</sup> The specific type of tick data required can vary:

- **Volumetric Bars:** These are constructed from a 1-tick data series. The 'BidAsk' display style, which shows separate bid and ask volume at each price level, explicitly requires historical bid/ask tick data (Level 1). An alternative 'UpDownTick' style can derive its classification from 'last' historical tick data if full bid/ask history is unavailable.<sup>8</sup>
- **Volume Profile:** This tool can be configured to use 'Tick' resolution, which is the most accurate but also the most resource-intensive as it processes individual tick data. It can also use 'Minute' resolution, which builds the profile from 1-minute bar data. Displaying buy/sell volume splits within the profile typically necessitates 'Tick' resolution data.<sup>12</sup>
- **Other Order Flow Plus tools (e.g., Cumulative Delta, VWAP):** While some Order Flow Plus tools may not require the global "Tick Replay" chart setting to be enabled<sup>1</sup>, they inherently process tick-level information for accuracy. For example, a true Volume Weighted Average Price (VWAP) calculation requires every trade's price and volume. Cumulative Delta needs to classify individual ticks as aggressor buys or sells based on their relation to the bid/ask spread at the time of the trade.

#### **Does Order Flow Plus Create Significant *Additional* Data Files?**

Based on available documentation and user discussions, it is highly probable that Order Flow Plus tools primarily *process* the existing historical tick data stored in NinjaTrader's main database, rather than creating large, redundant datasets of their own.<sup>13</sup> The disk space footprint directly attributable to the Order Flow Plus add-on itself is likely limited to its configuration files, user-saved templates, and



potentially small cache files related to its operation. These would not constitute extensive historical databases.

Therefore, the primary disk space "cost" associated with using Order Flow Plus is the cost of storing the necessary underlying tick data that these tools depend on. If a trader wishes to perform Order Flow analysis using Volumetric Bars (BidAsk style) over five years of NQ history, they must account for the storage space required for five years of NQ Level 1 tick data. The add-on itself doesn't duplicate this large data store.

#### Interaction with "Tick Replay" Feature (Revisited)

It is crucial to reiterate the distinction regarding NinjaTrader's "Tick Replay" *feature*. For the purpose of *displaying* Order Flow Plus indicators on a chart in real-time or on historical charts, enabling the chart's "Tick Replay" property is **not required and is generally not recommended** because it will unnecessarily consume system resources and degrade performance.<sup>1</sup> Order Flow Plus tools are designed with their necessary data series access "baked in" and can intelligently request the required tick data from the database as needed.<sup>1</sup> The concern about "SSD space using tick replay in ninjatrade" in the context of Order Flow Plus should be reframed as "SSD space for the tick data that Order Flow Plus tools require to function."

The choice of specific Order Flow Plus tools and their settings can also influence the *type* of underlying tick data needed, which in turn dramatically affects storage requirements. For example, using the Volume Profile in "Buy sell" display mode (which requires 'Tick' resolution) or Volumetric Bars in "BidAsk" style (which needs historical bid/ask data) points towards a need for the more granular, and thus larger, Level 1 tick data.<sup>8</sup> Conversely, if a trader's analysis

primarily involves Order Flow Plus features that can operate effectively with "Trades Only" data or "Minute" resolution for profiles, their underlying tick data storage needs could be substantially lower. This understanding allows traders to make informed decisions, balancing analytical granularity and desired features against disk space consumption by selecting appropriate Order Flow Plus settings and corresponding data types.

#### **4. Practical Recommendations for Disk Space Management and Allocation**

Effective management of disk space is crucial for maintaining optimal NinjaTrader performance, especially when dealing with voluminous tick data. This involves both strategic allocation of SSD space and ongoing data management practices.

##### **NinjaTrader Installation and Baseline**

The initial installation of NinjaTrader 8 is relatively modest, requiring around 300 megabytes of disk space.<sup>14</sup> However, this figure does not account for subsequently downloaded historical data, log files, saved workspaces, indicator templates, and temporary cache files. A prudent allocation for the base platform and its operational files would be in the range of 5-10 GB, even before considering tick data storage.

##### **Strategies for Minimizing Tick Data Footprint**

Several strategies can be employed to manage and minimize the disk space consumed by historical tick data:

- **Regularly Review and Remove Unneeded Historical Data:** NinjaTrader provides tools to manage stored historical data. Users can navigate to Tools > Historical Data, expand the instrument categories, and right-click to remove data for

specific instruments or contract expirations that are no longer needed.<sup>6</sup> However, a crucial caution is that once data is removed, it might not be possible to re-download it from the data provider if it pertains to a period older than what the provider currently offers (e.g., NinjaTrader Brokerage typically provides 1 year of historical tick data).<sup>6</sup>

- **Download Data in Manageable Chunks:** When backfilling large amounts of historical data, it is advisable to download it in smaller segments (e.g., 3 months at a time) rather than attempting to download entire years or multiple years at once.<sup>15</sup> This approach can also alleviate strain on system RAM during the download and import process, as large import operations can be memory-intensive.<sup>16</sup>
- **Consider "Trades Only" Data:** If the full granularity of Level 1 Bid/Ask data is not essential for all traded instruments or for every analytical technique employed, opting for "Trades Only" data can result in dramatic space savings—potentially 10 to 100 times smaller than Level 1 data.<sup>5</sup> Users should evaluate whether their specific Order Flow Plus usage patterns and strategy backtesting requirements necessitate Level 1 data in all instances.
- **Manage Cache and Workspace Folders:** NinjaTrader utilizes cache folders (e.g., Documents\NinjaTrader 8\cache and Documents\NinjaTrader 8\db\cache). While these are generally cleared upon a normal platform shutdown, they might retain data if the platform crashes or the PC loses power unexpectedly, so periodic checks can be useful.<sup>6</sup> Additionally, the Workspaces folder can grow if users frequently save new copies of workspaces instead of overwriting existing ones.<sup>6</sup>

## Recommended SSD Space Allocation

Given the performance benefits, SSDs are highly recommended for running NinjaTrader, particularly when tick data is involved.<sup>17</sup> It is a general best practice to maintain a healthy amount of free space on an SSD (e.g., 15-20% minimum) to ensure optimal performance and longevity. Some VPS providers recommend maintaining at least 10GB of free disk space.<sup>18</sup>

The ideal SSD capacity depends heavily on individual trading style, the number and type of instruments traded, the desired length of historical data retention, and the intensity of Order Flow Plus usage. The following tiered recommendations offer guidance:

- **Basic Usage (Minimal Tick Data):**
  - Suitable for traders focusing on very short-term replay, limited Order Flow Plus usage, or primarily using "Trades Only" data for a few days/weeks.
  - Platform & Core Files: 5-10 GB
  - Tick Data Estimate: 20-50 GB
  - **Total Recommended SSD: 75-100 GB.** This aligns with the storage offered by smaller cloud VPS plans <sup>17</sup> but provides a more comfortable buffer.
- **Moderate Usage (Active Trading & Analysis):**
  - For active traders using Order Flow Plus regularly, perhaps retaining 3-6 months of Level 1 tick data for one or two active instruments (e.g., ES, NQ).
  - Platform & Core Files: 10 GB
  - Tick Data Estimate: 100-250 GB (Example: ES at ~0.5 GB/day for 6 months ≈ 65 GB; NQ at ~2 GB/day for 3 months ≈ 130 GB. Summing these gives an idea for two instruments).
  - **Total Recommended SSD: 250-500 GB.** This range is supported by recommendations for more robust VPS setups, which suggest 150GB+.<sup>18</sup>

- **Heavy Usage / Long-Term Data Archival (Extensive Backtesting & Analysis):**
  - Geared towards developers, quantitative traders, or those requiring 1+ year of Level 1 tick data for multiple active instruments, conducting extensive backtesting, or performing detailed Order Flow analysis across long historical periods.
  - Platform & Core Files: 10 GB
  - Tick Data Estimate: 500 GB - 2 TB+ (Referencing earlier estimates, one year of NQ Level 1 data could approach 500-700 GB, and ES around 130-200 GB. Multiple instruments and longer durations will quickly escalate this).
  - **Total Recommended SSD: 1 TB - 2 TB+.** For very large datasets, a strategy involving a large secondary drive for older, less frequently accessed data might be considered, although NinjaTrader's primary data operations are typically focused on the installation drive (C: drive is mentioned for replay data <sup>2</sup>).

Effective disk space management for NinjaTrader is not a one-time configuration but an ongoing process. Tick data accumulates continuously for active traders, market conditions change, and the instruments traded may evolve, all of which can alter data generation rates. Therefore, users should incorporate data review and cleanup tasks into their regular trading system maintenance schedule rather than simply allocating space once and assuming it will suffice indefinitely. The "sweet spot" for SSD size is highly dependent on these individual factors; users should proactively analyze their anticipated data requirements before investing in hardware or committing to data plans.

**System and NinjaTrader Configuration Tips for Efficiency**

- **Sufficient RAM is Crucial:** While this report focuses on disk space, Random Access Memory (RAM) is inextricably linked to performance when handling large tick datasets. Insufficient RAM can lead to excessive disk swapping (also known as "thrashing"), severely degrading performance and causing issues or crashes when NinjaTrader attempts to load or process large volumes of tick data.<sup>11</sup> While 8 GB is often cited as a recommended minimum for general use <sup>17</sup>, for traders heavily utilizing tick data and Order Flow Plus, 16 GB should be considered a more practical minimum, with 32 GB or more being safer for very intensive workloads.<sup>15</sup>
- **Use the "Tick Replay" Feature Judiciously:** Only enable the global "Tick Replay" option in the Strategy Analyzer when precise tick-by-tick strategy logic testing is absolutely required. As previously emphasized, do **not** enable this feature on charts for the purpose of displaying Order Flow Plus indicators, as it is unnecessary for their function and negatively impacts system performance.<sup>1</sup>
- **Data Feed Provider Considerations:** Ensure the chosen data feed provider offers the necessary historical tick data depth and granularity (Level 1 with bid/ask if required for specific analyses) for the intended trading and analytical activities.<sup>7</sup> The availability and quality of historical data can vary between providers.

The following table consolidates the disk space allocation guidelines based on different usage profiles.

**Table 2: NinjaTrader Disk Space Allocation Guidelines**

Usage	NT8	Tick Data	Buffer/Fr	Total	Key
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Profile	Platform & Core Files	(Primary Consumer)	Free Space (15-20% of total or fixed)	Recommended SSD	Considerations
<b>Light / Short-Term</b> (Few days/weeks replay, basic OF+)	5-10 GB	20-50 GB	15-25 GB	<b>75-100 GB</b>	Primarily "Trades Only" data or very short Level 1 history for 1-2 instruments. Minimal long-term data retention.
<b>Moderate / Active Trader</b> (3-6 months L1 data, 1-2 instr., regular OF+)	10 GB	100-250 GB	40-90 GB	<b>250-500 GB</b>	Balancing active analysis needs with storage. Suitable for Level 1 data for ES/NQ for a few months. Regular use of OF+



					tools.
<b>Heavy / Developer / Long Backtest</b> (1yr+ L1 data, multiple instr., extensive OF+)	10 GB	500 GB - 2 TB+	100-400 GB+	<b>1 TB - 2 TB+</b>	Deep historical analysis, multiple high-activity instruments with Level 1 data. Significant buffer for future data growth and multiple large backtests. Intensive OF+ usage over years.

*Notes: "Level 1" data assumes Bid/Ask + Last. Opting for "Trades Only" data will significantly reduce the "Tick Data" storage requirement. Always aim to maintain at least 15-20% free SSD space for optimal performance and drive longevity.*

## 5. Conclusion: Planning Your Storage for Optimal Trading

The disk space required for NinjaTrader, particularly when utilizing

Tick Replay capabilities and the Order Flow Plus suite, is primarily dictated by the volume of historical tick data stored. Key factors influencing this volume include the specific instruments traded, their market activity levels, the type of data recorded (Level 1 with Bid/Ask versus "Trades Only"), and the duration for which this data is retained.

Estimating that 1 GB of Level 1 tick data for a highly active instrument like the MNQ can be consumed in less than a trading day, while for ES it might last 1-2 days, underscores the potential for rapid storage accumulation. "Trades Only" data offers a significantly smaller footprint. Order Flow Plus tools, while powerful, do not appear to create substantial additional historical data files themselves; rather, their "cost" in terms of disk space is the underlying tick data they require to function. It is critical to understand that enabling the global "Tick Replay" chart setting is generally not necessary for Order Flow Plus tools and can impede performance.

Choosing the appropriate data granularity and retention period involves a trade-off between analytical depth, system performance, and storage capacity (and potentially cost, if using third-party data providers). There is no single SSD size that fits all users. Proactive planning is essential. Traders should aim for an SSD capacity that comfortably accommodates their anticipated medium-term data needs—for instance, aligning with the "Moderate" usage tier (250-500 GB) if unsure, or the "Heavy" tier (1 TB+) if extensive historical analysis or data hoarding is a core part of their methodology.

Beyond the initial allocation, implementing regular data management practices, such as reviewing and archiving or deleting unneeded historical data, is crucial for long-term system health. Finally, while

disk space is a vital consideration, a holistic approach to system resources—including sufficient RAM (16GB+ recommended for tick data users) and a capable CPU—is paramount for ensuring a smooth and responsive NinjaTrader experience, especially when navigating the data-rich environment of tick-level analysis.

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