KILOVIEW Storage Stick (ST-UX)

SSD Compatibility & Selection Guide

Applicable to:

> CUBE R1 NDI Recording System

> KiloLink Station Pro Bonding Receiver & Device Management Platform

Document Purpose

This document describes the compatible products, recommended SSD models, selection requirements, and installation notes for the ST-UX SSD Enclosure. It helps users select a compatible SSD based on their project requirements and properly use the supported storage modes.

1. SSD Selection: Choosing the Right SSD for ST-UX

The ST-UX SSD Enclosure supports M.2 NVMe SSDs and can be used with CUBE R1 and KiloLink Station Pro for local recording, media storage, and other storage applications.

Storage capacity, purchasing options, and budget may vary by project. Users can select a suitable SSD based on the specifications provided in this guide and install it in the ST-UX SSD Enclosure.

When selecting an SSD, capacity and price should not be the only considerations. The interface protocol, form factor, power consumption, and thermal performance can all affect compatibility and long-term operating stability.

We recommend using one of the SSD models listed in this guide. If you choose another model, confirm that its specifications meet the requirements before purchase.

2. Applicable Products

This guide applies to products that support storage expansion through the KILOVIEW Storage Stick (ST-UX), including:

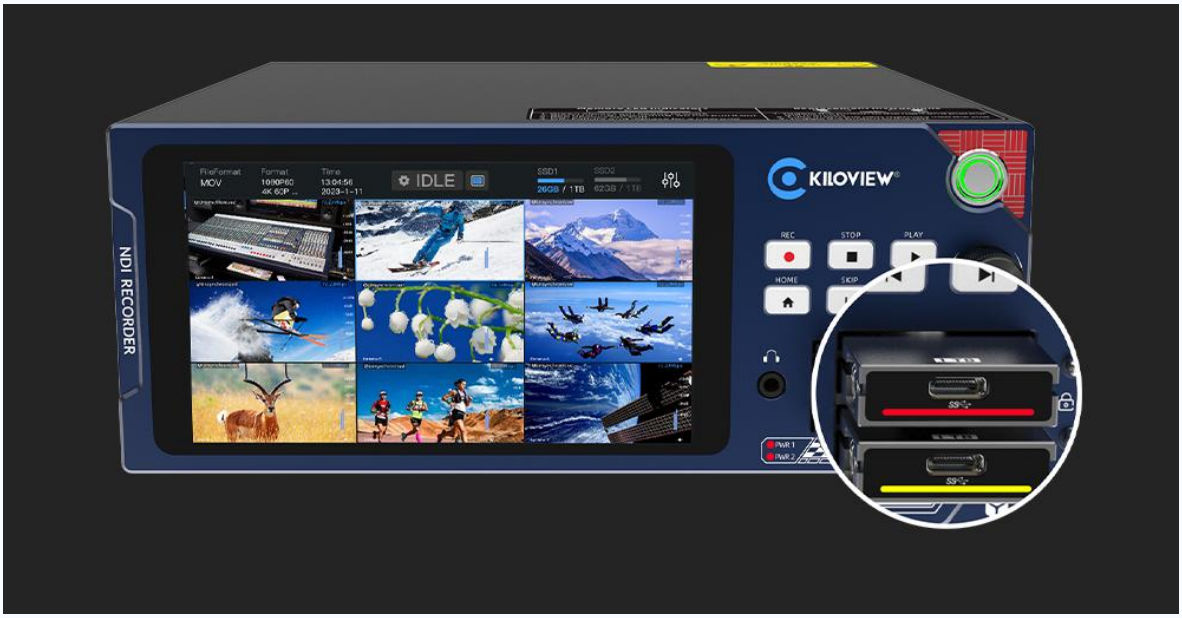
> CUBE R1 NDI Recording System

> KiloLink Station Pro Bonding Receiver & Device Management Platform

Note

Both CUBE R1 and KiloLink Station Pro support storage expansion through the ST-UX SSD Enclosure. The SSD selection criteria, specification requirements, and compatibility recommendations described in this guide apply to both products.

KiloLink Station Pro Bonding Receiver & Device Management Platform



CUBE R1 NDI Recording System

3. Recording and Storage Modes

ST-UX supports different recording and storage modes depending on the number of installed SSDs and the system version.

3.1. Local Rollover Recording Mode (Available with One SSD)

This mode is available when only one SSD is installed.

When the current storage space becomes full, the system automatically switches to the next available storage location and continues recording. This helps prevent recording interruptions and makes full use of the available storage capacity.

Note: *Suitable for only SSD deployments, providing continuous recording without interruption.*

3.2. Dual-Drive Backup Mode (Available with Two SSDs)

This mode is available when two SSDs are installed.

To improve data security, CUBE R1 supports simultaneous recording to two SSDs. All recording data is written to both SSDs at the same time, creating two identical copies. If one SSD fails, the other retains a complete copy of the recorded data.

Note: *Suitable for applications with higher data protection requirements.*

3.3 NAS Backup Mode

This mode is available with:

> **Firmware earlier than v1.06.0011:** Two SSDs are required.

> **Firmware v1.06.0011 and later:** One SSD is supported.

In this mode, the local SSD is used as cache storage. Recording files are first written to the local SSD and then automatically uploaded to the configured NAS server, providing both local and network storage.

Note: *Suitable for applications requiring both local recording and NAS backup.*

4. SSD Specification Requirements

When selecting an SSD, confirm that it meets the following basic specifications:

01	02	03
Interface Type	**Bus Protocol**	**Form Factor**
M.2	NVMe SATA is not supported.	2280 22mm × 80mm

4.1. Interface Type

The SSD must use an M.2 interface.

4.2. Bus Protocol

The SSD must use the NVMe protocol. M.2 SATA SSDs are not supported. Even if an SSD is in the M.2 form factor, it cannot be used if it uses the SATA protocol.

4.3. Form Factor

The SSD must be the 2280 form factor (width 22 mm × length 80 mm).

4.4 Recommended Capacity

Kiloview recommends 1 TB or 2 TB SSDs. Other capacities are outside the scope of this guide and may be selected at the user's discretion.

5. Recommended SSD Models

Kiloview recommends the following SSD models and capacities for use with the ST-UX SSD Enclosure.

Brand	Recommended Models	Recommended Capacity
Samsung	990 PRO	1TB / 2TB
Western Digital	WD_BLACK SN850X	1TB / 2TB
Acer Predator	GM7	1TB / 2TB

To ensure stable use of ST-UX with CUBE R1 and KiloLink Station Pro, we recommend selecting the SSD brands, models, and capacities listed above.

If you select an SSD not listed above, make sure it meets the M.2 NVMe 2280 specifications and is suitable for ST-UX in terms of power consumption, heat generation, and physical fit. As performance and stability may vary between SSD models, test the SSD before using it in a project.

6. Considerations When Selecting Other SSDs

If you choose an SSD that is not listed in the recommended models, consider the following:

6.1. Use an M.2 NVMe SSD

Some M.2 SSDs use the SATA protocol instead of NVMe. Although they share the same M.2

form factor, SATA SSDs are not compatible with ST-UX. Always confirm that the SSD uses the NVMe protocol before purchase.

6.2. Select the 2280 Form Factor

ST-UX is designed for M.2 2280 SSDs (width 22 mm × length 80 mm). SSDs with other form factors may not fit properly or be securely installed.

6.3. Choose Reliable SSD Models

Select SSDs from reputable brands with proven reliability. Avoid products with uncertain specifications or inconsistent performance, as long-term stability is more important than advertised specifications.

6.4. Consider Power Consumption and Thermal Performance

ST-UX Enclosure has a compact internal design. SSDs with high power consumption or excessive heat generation may affect long-term recording and storage stability.

6.5. Avoid SSDs with Large Pre-installed Heatsinks

The ST-UX package includes a dedicated thermal pad, so no additional heatsink is required. SSDs with large pre-installed heatsinks may not fit properly inside the enclosure.

6.6. Preferred Capacity: 1 TB or 2 TB

Kiloview recommends 1 TB and 2 TB SSDs. If another capacity is selected, compatibility and stability should be verified before use.

7. Before Installation

Before installing the SSD, make sure the following items are ready:

An M.2 NVMe 2280 SSD that meets the specifications in this guide

A KILOVIEW ST-UX Enclosure

The thermal pad included in the ST-UX package

The small Phillips screwdriver included in the ST-UX package

To protect electronic components from electrostatic discharge, the installer should wear antistatic gloves or an antistatic wrist strap during installation.

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8. SSD Installation

Step 1. Open the ST-UX Enclosure

Use the small Phillips screwdriver included in the ST-UX package to remove the enclosure cover. Do not apply excessive force to avoid damaging the enclosure or internal connector.

Step 2. Install the SSD

Align the M.2 NVMe 2280 SSD with the M.2 slot inside ST-UX and insert it at an angle. Make sure the SSD is fully seated in the M.2 connector. Do not force the SSD into the slot or install it in the wrong orientation.

Step 3. Secure the SSD

Gently press the SSD down into position and secure it with the mounting screw. Make sure the SSD is firmly installed and sits flat without movement.

Step 4. Install the Thermal Pad

Three dedicated thermal pads are included in the ST-UX package, so no additional thermal pads are required. Apply one of the included thermal pads to the designated area of the SSD.

Step 5. Close the Enclosure

After confirming that the SSD and thermal pad are correctly installed, reinstall the enclosure cover and tighten the screws.

Step 6. Connect ST-UX to the Device

Connect the installed ST-UX to CUBE R1 or KiloLink Station Pro. Once the device recognizes the SSD, it can be used for local recording, media storage, and other supported storage applications.

YouTube Installation Guide: https://youtu.be/o0njd0xsXZE

9. Important Notes

- ✓ The recommended SSD models in this guide are the Samsung 990 PRO, Western Digital WD_BLACK SN850X, and Acer Predator GM7, in 1TB or 2TB capacities.
- ✓ SSDs not listed in this guide may vary in power consumption, heat generation, and physical dimensions, which may affect installation compatibility or long-term stability.
- ✓ Before selecting another SSD model, confirm that its interface, protocol, form factor, and thermal requirements are compatible, and test it before using it in a project.
- ✓ For more stable operation, use one of the recommended models and capacities listed in this guide.