

PixelCast



Overview

PixelCast is a high-performance Windows video playback application utilizing LibVLCSharp, allowing you to freely set the video playback position and size.

The Preview window (for operation) and the Main Player window (for output) are separated, making it ideal for digital signage, event broadcasting, and other professional uses, especially in multi-monitor environments.

System Requirements

- **PC:** A PC with a high-performance graphics card is recommended for playing 4K videos.
- **OS:** Windows 10 / 11
- **Required Runtime:** .NET 9.0 Desktop Runtime (<https://dotnet.microsoft.com/download/dotnet/9.0>)
- **Required Software:** VLC media player (64bit) (<https://www.videolan.org/vlc/>) - *Must be installed on the system.*

Installation / Uninstallation

- To install, please run "Setup_PixelCast.exe" after extracting the downloaded archive.
- To uninstall, use "Uninstall a program" in the Control Panel.

Software Type

- Shareware
- License Price: 5,800 JPY (tax included)

Purchasing a License

- This software is shareware. Without a registered license, it operates as a "Trial Version," with a limitation where playback automatically stops after 15 minutes of use.

- After verifying that it works correctly in your operating environment (multi-display, etc.), please purchase a license via **Vector's ShareReg** for continued professional or business use.

Key Features

Video Playback

- **LibVLC Engine:** Employs the high-performance LibVLC engine, supporting a wide range of formats (MP4, WMV, AVI, MOV, MKV, etc.).
- **Dual Window:** The operation window and the player window are independent, allowing you to control the broadcast without showing operation UI on the output screen.
- **Free Video Size:** Since the display position and size can be specified in pixels, you can display video on only a portion of a monitor for Dot by Dot display on LED visions, or create a display wall spanning multiple monitors.
- **Complete Gapless Playback:** The output player window uses a double-buffering method. This eliminates the black screen (flicker) during video transitions, achieving seamless video output similar to television broadcasting.
- **Folder Playback Mode:** In addition to single files, you can specify a folder to automatically play all video files within it sequentially. A playlist is built in alphabetical order, ideal for event broadcasting.

Performance Optimization

- **Preview Disabling:** Significantly reduces CPU/GPU load by disabling the video preview on the main window. This is effective when broadcasting high-resolution videos.
- **Playback Optimization:** Employs internal LibVLC seek optimization options to ensure stable playback and seeking performance while minimizing system load.

Multi-language Support

- **Real-time Language Switching:** Toggle the UI display language between Japanese and English in real-time without restarting the application.

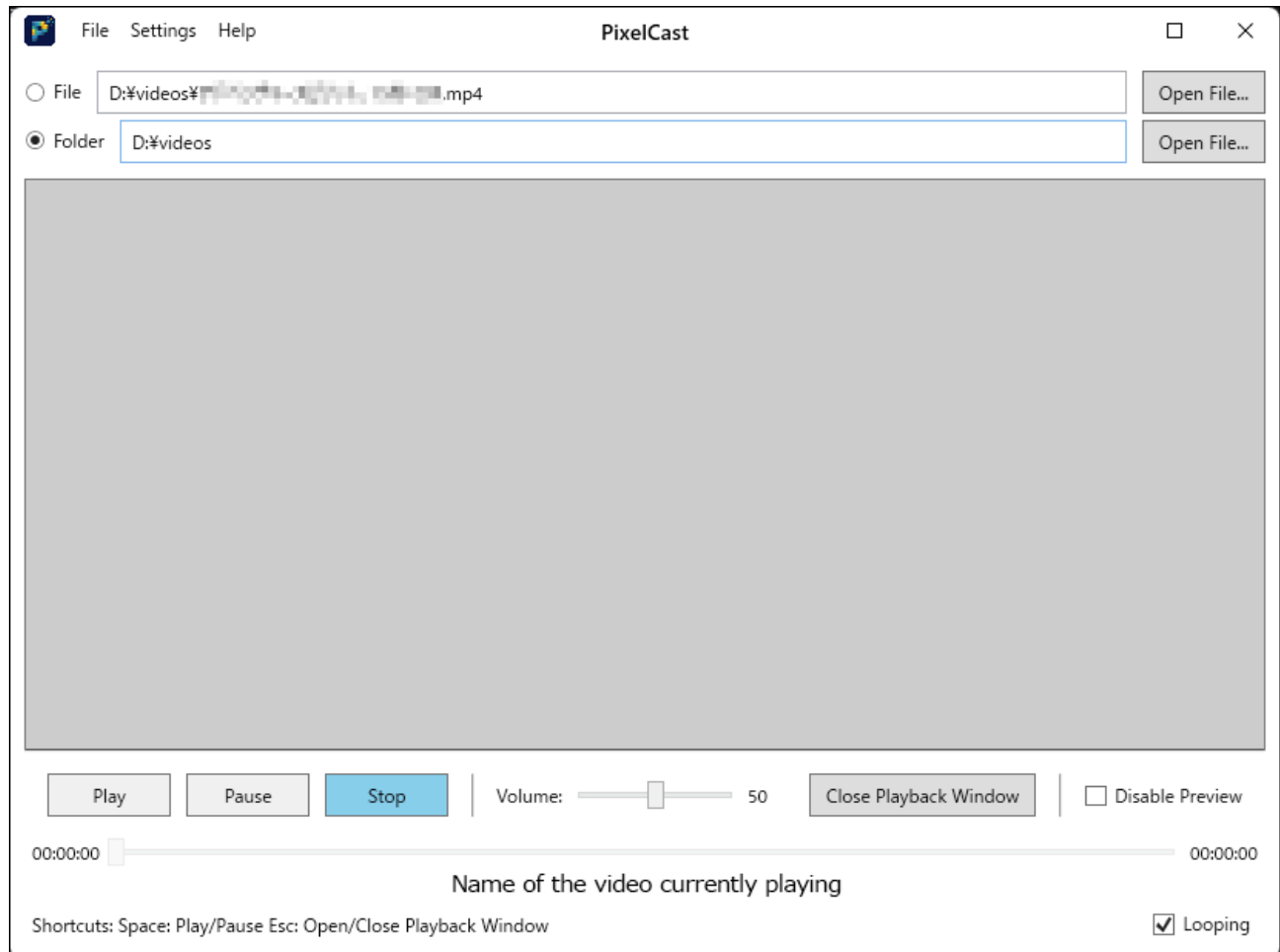
Playback Control

- **Video Layout Settings:** Choose between "Fit to Width", "Fit to Height", or "Stretch" for video display, with changes reflected immediately.
- **Loop Playback:** Simply check a box for seamless loop playback.
- **Seek Bar:** Change playback position while the video is paused. Operable even when preview is disabled. When the preview is enabled, you can seek while viewing the video on the main screen, making it easy to find precise starting points.
*Note: Seeking is a resource-intensive operation, and response may be delayed depending on the video file.
- **Volume Control:** Adjustment is possible via the volume slider (only the player/output side produces audio).
- **Auto-play:** Automatically start playback upon application startup for automated operations.

Settings Persistence

- **State Memory:** Saves settings such as "Disable Preview", "Loop Playback", and window positions upon exit, automatically restoring them on the next launch.

How to Use



1. **Select Playback Mode:**
 - **File:** Use this to play a single specific video file.
 - **Folder:** Use this to play all files within a specified folder sequentially.
2. **Select File/Folder:** Click the "Open..." button to select the target file or folder.
3. **Playback Control:**
 - **Play:** Starts playback from the beginning or current pause position.
 - **Pause:** Pauses playback.
 - **Stop:** Stops playback and returns to the beginning.
4. **Window Control:**
 - **Settings:** Configure auto-play, initial window coordinates, etc. (Detailed settings can be accessed from the "Settings" menu).
 - **Open/Close Playback Window:** Toggle the visibility of the broadcast player window.
5. **Options:**
 - **Looping:** Automatically restarts from the beginning when playback ends.

- **Disable Preview:** Turns off the operation screen's video to lower load (can only be changed while stopped).

6. Shortcuts:

- Space : Toggle Play/Stop.
- Esc : Toggle the player window visibility (operable during playback or when stopped).

7. Main Window State Persistence:

Various settings of the main window are retained and restored upon the next startup.

Settings

You can adjust the application behavior and playback window settings from the "Settings" menu in the title bar of the main window.

Settings Menu Items

- **Preferences...:** Opens the "Preferences" window for detailed configuration.
- **Show FPS (_F):** Displays the current playback frame rate (FPS) in the upper-left corner of the player window in real-time.

Preferences Window Details

In the Preferences window, you can modify the following items. Click "Apply" to save and reflect your changes.

PixelCast - Preferences

Player Window Settings

X Pos: 1920

Y Pos: 0

Width: 1920

Height: 1080

Video Layout

☒ Fit to Width

☐ Fit to Height

☐ Stretch

Behavior

☐ Auto-play on startup

Language Settings

Language: English

Apply Cancel

(Example settings for full-screen display on the right monitor)

Group	Item	Description
Player Window Settings	X / Y Coordinates	Specifies the position (top-left corner) on the desktop where the playback window will be displayed in pixels.
	Width / Height	Specifies the size of the playback window in pixels.
Video Size	Fit to Width	Displays the video scaled to the width of the window while maintaining the aspect ratio.
	Fit to Height	Displays the video scaled to the height of the window while maintaining the aspect ratio.
	Stretch	Stretches the video to fill the entire window, ignoring the aspect ratio.
Behavior	Auto Play on Startup	Automatically starts playing video in the previous playback mode when the application is launched.
Language	Display Language	Switches the application's UI language between Japanese and English.

Contact

For questions, bug reports, or requests, please contact:

- Email: kuni.matsui.biz@gmail.com ()

Disclaimer

- Use this software at your own risk. The developer is not liable for any damages resulting from the use or inability to use this software.

License

- **LibVLCSharp**: MIT License (<https://opensource.org/licenses/MIT>)
- **VLC media player**: GPLv2 License (<https://www.videolan.org/policy.html>)
- **PixelCast**: © 2025-2026 HAKU-Works All Rights Reserved.