

BRiTriggered with OBS Studio

Triggering Action Through Motion Detection

By Bill Royle, 2025



Overview

This guide explains how to use BRiTriggered to monitor your slot car layout with cameras and automatically switch OBS Studio scenes when cars pass through specific areas. By setting up motion-sensitive "hotspots" in BRiTriggered and configuring matching hotkeys in OBS, you can create dynamic recordings that automatically follow the action around your track.

What You'll Need

- BRiTriggered application
- IP camera with RTSP support (positioned to view your slot car layout)
- OBS Studio (for recording/streaming)
- Your slot car layout

Setting Up BRiTriggered Hotspots

Step 1: Connect Your Camera

- Launch BRiTriggered
- Click the **Camera** icon in the top-right corner
- Enter your camera's details:
 - Username (typically "admin")
 - Password
 - IP Address
 - Port Number (typically "80" or "554")
- Motion Sensitivity (adjust based on lighting conditions)
- Click **Save** to connect to your camera

Step 2: Define Hotspots

Hotspots are areas on your slot car layout where you want to detect motion and trigger an action:

- Within the camera view, identify strategic positions (turns, straights, jumps, etc.)
- For each location you want to monitor:
- Define a rectangular hotspot over that area
- Give each hotspot a descriptive name (e.g., "Main Straight", "Hairpin Turn")
- Assign an ID number to each hotspot

Step 3: Configure Hotspot Actions

For each hotspot:

- Select **Action** in the hotspot settings
- Select **Enable Keystroke**
- Choose a hotkey as the trigger (F-keys work well for most setups)
- Optional: Adjust the **Cooldown** setting (time before the hotspot can trigger again)

Important: You can use any key you prefer, but F-keys are recommended for most users. Be aware that Windows uses some F-keys (like F1 for help and F5 for refresh), so test your chosen keys first. Whatever hotkey you choose here must match exactly what you set up in OBS Studio.

Step 4: Test Your Hotspots

- Save your hotspot configuration
- Run a test car through your layout
- Watch for the green rectangles to change color when motion is detected
- Confirm the hotspots are triggering at the right moments

Configuring OBS Studio

Step 1: Set Up Your Scenes

Create multiple scenes in OBS, each showing a different camera angle or view:

- Launch OBS Studio
- Create a new scene for each camera angle (e.g., "Main Straight View", "Hairpin Turn View")
- Add your video sources to each scene

Step 2: Configure Hotkeys in OBS

- In OBS, go to **File > Settings > Hotkeys**
- For each scene, assign the EXACT SAME hotkey you used in BRiTriggered:
- "Main Straight View" → F1 (if F1 was assigned to Main Straight in BRiTriggered)
- "Hairpin Turn View" → F2 (if F2 was assigned to Hairpin Turn in BRiTriggered)
- (continue for all your scenes)
- Click **Apply** and then **OK**

Note: The hotkeys in OBS must match exactly what you set in BRiTriggered for the automatic scene switching to work properly.

Step 3: Test the Integration

- Make sure both BRiTriggered and OBS are running
- Run a test car around your layout
- Watch OBS automatically switch between scenes as the car triggers different hotspots

Tips for Better Results

- **Camera Placement:** Position your camera to capture a clear view of the entire layout
- **Lighting:** Ensure consistent lighting to avoid false triggers
- **Hotspot Size:** Make hotspots large enough to detect cars, but small enough to be specific
- **Cooldown Timing:** Adjust cooldown times based on your track's layout and car speeds
- **Scene Transitions:** In OBS, add subtle transitions between scenes for a professional look
- **Multiple Cameras:** For larger layouts, consider using multiple cameras with BRiTriggered

Troubleshooting

- **False Triggers:** Reduce motion sensitivity or adjust hotspot placement
- **Missed Triggers:** Increase motion sensitivity or make hotspots larger
- **Delayed Switching:** Ensure your computer meets the minimum requirements for both applications
- **OBS Not Responding:** Verify that your chosen hotkeys aren't being used by other applications

Example Setup

Here's an example configuration for a typical slot car layout:

Conclusion

Hotspot Location	BRiTriggered Hotkey	OBS Scene Name
Start/Finish Line	F1	Starting Grid
Main Straight	F2	Speed Camera
Hairpin Turn	F3	Tight Corner
Bridge Section	F4	Overhead View
Pit Lane	F5	Pit Area

By combining BRiTriggered's motion detection with OBS Studio's scene switching capabilities, you can create professional-looking recordings of your slot car races that automatically follow the action. This setup enhances the viewing experience and showcases the excitement of your slot car layout from the best angles at the right moments.

Happy racing!

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