

## BirdDog X1 Series and MAX Firmware Tool Firmware Rollback Guide

## Overview

The BirdDog X1 and MAX Firmware Tool is a dedicated utility for managing firmware on BirdDog X1 series cameras. It is specifically designed to navigate Firmware Rollback Protection, allowing cameras running firmware 6.1.070 or higher to be rolled back to an earlier version.

This tool also serves as a recovery option for cameras that are no longer accessible through their Web UI, or that are stuck in a failure state indicated by a flashing White and Red status light.

Tool Capabilities	
✓	Roll back firmware on cameras running version 6.1.070 or higher.
✓	Apply any older firmware version to X1, X1 30x, X1 Ultra, and MAX models.
✓	Recover units where the Web UI is inaccessible.
✓	Recover units with a flashing White and Red status light.
✗	Reset or recover a camera password.
✗	Configure camera settings.
✗	Update multiple cameras simultaneously.

**Note:** This tool is intended for firmware rollback and unit recovery only. For password resets or camera configuration, use the camera Web UI or BirdDog Central.

Applies To	
<b>Camera Models</b>	X1, X1 30x, X1 Ultra, MAX
<b>Tool Required</b>	BirdDog X1 and MAX Firmware Tool
<b>Connection</b>	Ethernet
<b>Firmware File</b>	.bin firmware file for your model

## PREREQUISITES

Before starting the rollback, ensure you have the following:

- BirdDog X1 and MAX Firmware Tool installed on your computer
- The correct .bin firmware file for your specific camera model (e.g., BD\_X1\_30x\_FW6.1.068.bin)
- The IP address of the camera you wish to roll back
- Your computer and camera connected to the same network
- A stable Ethernet connection

**Note:** Do not power off the camera or close the Firmware Tool during the update process. Interrupting a

firmware flash may render the camera inoperable.

## IMPORTANT: DOWNGRADING FROM ABOVE 6.3.100

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**⚠ Important:** If the camera is currently running firmware version 6.3.100 or higher and needs to be rolled back to a version below 6.3.100, you must complete a two-step process. Skipping the kernel step will cause the rollback to fail.

The correlating 6.3.001\_kernel.bin file for your camera model must be applied first using the BirdDog X1 and MAX Firmware Tool. Only once that process is complete can you proceed to apply the desired rollback firmware via the BirdUI. Ensure you select the kernel file that matches your exact camera model.

Kernel filenames follow this naming convention:

- X1: BD\_X1\_FW6.3.001\_kernel.bin
- X1 30x: BD\_X1\_30x\_FW6.3.001\_kernel.bin
- X1 Ultra: BD\_X1U\_FW6.3.001\_kernel.bin
- MAX: BD\_MAX\_FW6.3.001\_kernel.bin

### Step 1 — Apply the 6.3.001 Kernel File

Using the BirdDog X1 and MAX Firmware Tool, apply the 6.3.001\_kernel.bin file that matches your camera model. Follow the standard rollback steps below, selecting the kernel file when prompted to choose firmware.

**Note:** Wait for the progress bar to reach 100% and the tool to confirm completion before proceeding. Do not power off the camera during this process.

### Step 2 — Apply the Desired Rollback Firmware via the BirdUI

Once the kernel file has been successfully applied and the camera has rebooted, log into the camera BirdUI and navigate to SYSTEM / SYSTEM UPDATE. Select and apply your desired rollback firmware file for your camera model. Wait for the success prompt to confirm the process is complete.

## ROLLBACK PROCEDURE

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### Step 1 — Open the BirdDog X1 and MAX Firmware Tool

Launch the BirdDog X1 and MAX Firmware Tool on your computer. The main window will appear with two fields: IP Address and Firmware Version.

### Step 2 — Enter the Camera IP Address

In the IP ADDRESS field, type the IP address of the camera you want to roll back. You can find the camera's IP address in your network router, through BirdDog Central, or via the camera's own on-screen display.

**Note:** Make sure you enter the correct IP address for the intended camera. Applying firmware to the wrong device could cause unintended issues.

### Step 3 — Select the Firmware File

Click the SELECT FIRMWARE button (green). A file browser dialog will open. Navigate to the location of your

.bin firmware file and select it. The file path will appear in the FIRMWARE VERSION field once selected.

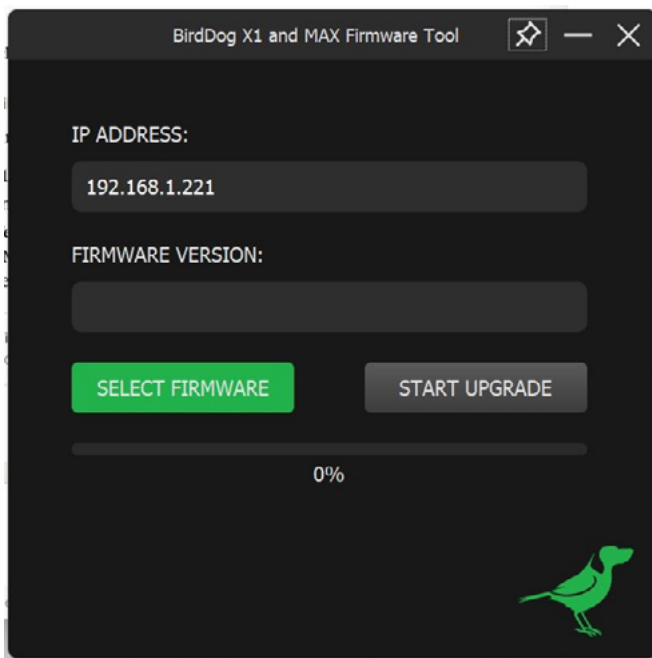
**Firmware filenames follow this naming convention:**

- X1: BD\_X1\_FWx.x.xxx.bin
- X1 30x: BD\_X1\_30x\_FWx.x.xxx.bin
- X1 Ultra: BD\_X1\_Ultra\_FWx.x.xxx.bin
- MAX: BD\_MAX\_FWx.x.xxx.bin

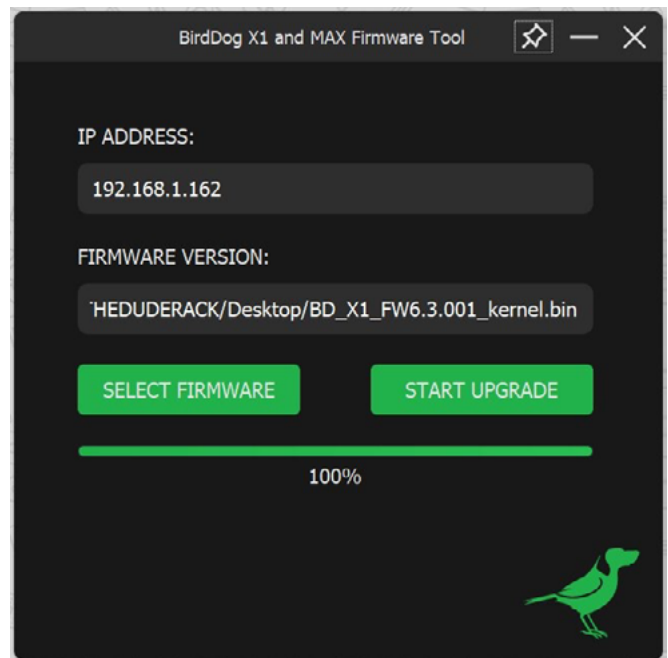
**Note:** Always use the firmware file that matches your exact camera model. Using the wrong model’s firmware can cause serious issues.

**Step 4 — Start the Upgrade**

Click the START UPGRADE button. The progress bar at the bottom of the window will begin filling from 0% to 100%. Do not close the tool or interrupt the process while the upgrade is in progress.



**Fig. 1 — Tool ready, IP entered (0%)**



**Fig. 2 — Firmware selected, upgrade complete (100%)**

### Step 5 — Wait for Completion

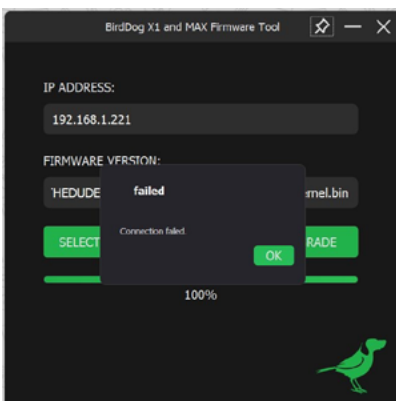
When the progress bar reaches 100%, the firmware rollback is complete. The camera will reboot automatically to apply the new firmware. Wait for the camera to fully restart before attempting to use it.

### Step 6 — Verify the Firmware Version

After the camera has rebooted, log into the camera’s web interface or use BirdDog Central to confirm the firmware version has reverted to the expected version.

## TROUBLESHOOTING

Troubleshooting	
<b>Progress bar stuck or not moving.</b>	Check network connection and verify the IP address is correct. Ensure you are using a wired Ethernet connection.
<b>Camera not found / “Connection failed” error.</b>	<p>Either the wrong IP address is being used, or the camera is no longer communicating at that IP address. Try the camera’s default fallback IP address (192.168.100.100) when the IP is unknown.</p> <p>Setting your computer’s NIC (IP Address) to 192.168.100.xxx is a best practice for this recovery method.</p> <p>Connecting the camera’s Ethernet connection directly to your computer with the manually set IP address 192.168.100.xxx is an option as well (DC power for the camera is needed for this method).</p> <p>See the error referenced below.</p>
<b>Firmware version does not change after reboot.</b>	Verify you selected the correct .bin file for your model. Repeat the process using the correct firmware file.
<b>Camera unresponsive after flash.</b>	Allow up to 5 minutes for the camera to reboot. If it remains unresponsive, contact BirdDog support.



**Fig. 3** — “Connection failed” error dialog. Check IP address or try fallback IP 192.168.100.100.

For further assistance, contact BirdDog support at [help@birddog.tv](mailto:help@birddog.tv)



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