

# **Oppo Bluray Driver**

# Installation and Usage Guide

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# Contents

Overview	3
Features	3
FAQ	4
Change Log	6
Purchase & Support	6
Developer Information	6
Driver Installation	7
Adding the driver to your project	8
Adding Netflix, Youtube and other mini drivers	11
Setting up automatic room on/off	12
Advanced Programming	13
Licencing	15
Summary	15
STEP 1 - Creating your project on driverCentral	15
STEP 2 –Purchase driver licence	17
STEP 3 – Install and activate the driverCentral cloud driver	18
STEP 4 – Install Chowmain driver	19



#### Overview

Oppo Bluray players provide an unmatched A/V experience to home theater enthusiasts. Drawing from over a decade's worth of experience in advanced imaging processing technology and high fidelity audio performance, the Oppo Bluray players are the ideal source to complete the ultimate home theater and sound room.

The Chowmain Oppo Bluray driver for Control4 provides the most advanced 2 way feedback and control over your Oppo bluray player for Control4. Create the perfect automated media experience for your customer by providing automated control over projection modes, room lighting, automated audio device startup and/or video device startup and more with our easy to use solution.



## **Features**

- Full two way feedback.
- Automatically turn on the room based on the type of disc in the player. Eg it will turn on the receiver only if it detects an audio disc however if it detects a video disc it will also turn on the TV.
- Automatically turn off the room when you press the physical power off button
- Mini apps for Oppo Players that support Netflix, Youtube and other applications
- Custom defined buttons for non intuitive buttons
- Play, Pause, Stop feedback
- Disk Tray Open, Close, Empty and Loading feedback
- Disc Type (Bluray, DVD-Video, DVD-Audio, SACD, CDDA, HDCD, VCD, SVCD, DATA) detection feedback
- Audio Type (Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution, DTS-HD Master Audio, LPCM, MPEG Audio, CD Audio) detection feedback
- In Home Menu & Menu Menu feedback
- Source Resolution feedback
- Output Resolution feedback



- Repeat (Chapter, Title, All, Off) Actions
- Random Actions
- Shuffle Actions
- Set HDMI output resolution Actions
- Set HDR Actions
- Set Output TV Signal Actions
- OSD Position Actions
- Time Information Display Actions

# FAQ

## What hardware will this work on?

This driver will work for the following models. It may also work with future models.

- BDP-83
- BDP-93
- BDP-95
- BDP-103
- BDP-103D
- BDP-105
- BDP-105D
- BDT-101CI
- UDP-203

#### Can you give us some examples of how we could use this driver?

- Automatically start up the receiver when the user puts in an audio disc.
- Automatically start up the tv/projector and receiver when the user puts in a video disc.
- Automatically dim lights when the movie starts playing.
- Automatically raise the lights when the movie pauses or stops.



- Automatically turn the whole AV system off when the user presses the physical power off button on the unit.
- Program different projection modes.based on resolution feedback.
- Change receiver settings when different audio types is detected.
- Utilise the awesome built in DAC for audiophiles. Control the volume of the Oppo directly with two way feedback.

#### Why do you only support OS 2.6 and above?

OS 2.6 offers a superior security encryption algorithm and a new and improved driver format. We have decided to only utilise this new format to ensure that the integrity of this driver is not compremised and that we can provide the best dealer/user experience available.

#### Do you offer showroom discounts?

We offer a 10% discount to dealers who want to use this driver in their showroom. Please contact our distributor Houselogix to arrange for this.

#### I want to try this driver out before buying it?

All Chowmain drivers for Control4 come with a 48 hour trial. This is activated once you add the driver to the project. No additional steps are necessary.





# **Change Log**

#### Version #20170104 - 04-JAN-2017

- Added digital optical and digital coax
- Added Extended OSD to actions
- Added mini drivers with icons

### Version #20170103 - 03-JAN-2017

Added Extended OSD to customisable commands

#### Version #20161216 - 16-DEC-2016

• Initial Release

## **Purchase & Support**

This driver is developed by Chowmain software & apps and is distributed and supported by Houselogix, Inc.

#### Sales

https://www.houselogix.com/shop/control4-drivers

#### Support

http://support.houselogix.com/

# **Developer Information**



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http://www.chowmain.co.nz



## **Driver Installation**

1. The driver you have downloaded will be in a zip file. Double click on this file to open it in your preferred zip program (WinZip, WinRar, etc.).



2. Extract the c4i file to the My Documents\Control4\Drivers directory. If you are using Windows 7 or 8 this will be extracted to the Libraries\Documents\Control4\Drivers directory.



3. You are now ready to add and configure the driver via the Composer Pro software.



## Adding the driver to your project

**IMPORTANT** – Before undertaking the installation of the driver please follow the licencing steps outlined at the end of this document.

- 1. Launch the Composer Pro application and connect to your project
- 2. In the 'System Design' page select the 'Search' tab on the right hand side.
- 3. Select '**Oppo'** as the manufacturer.

			•
🗹 Local 🔽 Online 🔲 Certified Only			
All Device Types 💌 Oppo			•
Results	Sort by:	Relevance	•
		F	
Oppo Bluray			
Oppo Bluray Oppo		All Mod	els

- 4. Double click on the 'Oppo Bluray' driver to add it to your project
- 5. Highlight the 'Oppo Bluray Player' driver on the left hand side.
- 6. Enter in the Houselogix licence details.
- 7. This driver has the ability to automatically turn on the video endpoint and audio endpoint for a room upon disc detection. It is smart enough to only turn on the audio endpoint (eg receiver) when it detects an audio disc and smart enough to turn on the video endpoint (eg tv) and video's audio endpoint (eg receiver) when it detects a video disc. If you want this functionality select the room you want this to happen on.

Auto Room(s) Select		Select
,	,	

8. This driver also has the ability to automatically turn off any room that has the driver selected when the unit is powered off. Eg when a person goes up to the bluray player to take the disc out when they are finished they can press the physical power button to turn the room off.

Auto Room Off	True	<b>•</b>	



9. We have mapped all the intuitive buttons to the logical place on the remote. There are some non intuitive buttons that need to be maped. We have made some suggestions but we recommend that you customise this to your customers preferences.

BUTTONS	
Guide	POP UP MENU
Previous/Recall	AB REPLAY
DVR	HOME
Record	HOME
Star	AUDIO
Hash	SUBTITLE
Custom 1	DO NOTHING
Custom 2	DO NOTHING 🔹
Custom 3	DO NOTHING

10. Click on the Connections tab.



11. Highlight the 'Oppo Pre-Amplifier' driver on the left hand side.





12. Bind the audio/video inputs & outputs to the relevant connections.

#### Audio/Video Inputs

ront 🐨 🐨	Audio	HDMI	Input
😴 HDMI Rear	Audio	HDMI	Input
🎭 USB Audio	Audio	STEREO	Input
📥 USB Audio	Audio	DIGITAL_OPTICAL	Input
🖲 USB Audio	Audio	DIGITAL_COAX	Input
器 USB Audio	Audio	MULTI_STEREO	Input
💽 Optical In	Audio	DIGITAL_OPTICAL	Input
🖲 Coaxial In	Audio	DIGITAL_COAX	Input
🌯 HDMI OUT 1 ARC	Audio	STEREO	Input
🗲 HDMI OUT 1 ARC	Audio	DIGITAL_OPTICAL	Input
🖲 HDMI OUT 1 ARC	Audio	DIGITAL_COAX	Input
🌯 HDMI OUT 2 ARC	Audio	STEREO	Input
🗲 HDMI OUT 2 ARC	Audio	DIGITAL_OPTICAL	Input
🖲 HDMI OUT 2 ARC	Audio	DIGITAL_COAX	Input
Audio/Video Outputs			
😴 Output	Video	HDMI	Output
🄏 Output	Audio	STEREO	Output
🕃 Output	Audio	MULTI_STEREO	Output

#### 13. Bind the control input (RS232)

Control Inputs			
📟 Serial RS-232	Control	RS_232	Input

14. The driver also has the ability to provide control/feedback for line level volume control. If you plan to utilise this (which is useful as the DAC is amazing) then please assign the audio endpoint and volume to a room.

Room Control				
Room Selection - Output	RoomControl	AUDIO_SELECTION	Output	Development->Audio End-Point 1
Room Selection - Output	RoomControl	AUDIO_VOLUME	Output	Development->Audio Volume 1

15. Click on the File and Refresh Navigators. Congratulations you have set up the Oppo bluray player.



# Adding Netflix, Youtube and other mini drivers

Note not all Oppo Bluray players can launch applications. Please check that your model supports applications first prior to following these steps.

- 1. Launch the Composer Pro application and connect to your project
- 2. In the 'System Design' page select the 'Search' tab on the right hand side.
- 3. Select '**Oppo'** as the manufacturer.



- 4. Double click on the relevant mini drivers you want to add to your project
- 5. Click on the Connections tab.



6. Highlight the 'Oppo Pre-Amplifier' driver on the left hand side.





7. Bind the Oppo App inputs to the relevant mini apps.

-				
Oppo App 1	Video	RF_OPPO_APP	Input	Netflix->Netflix
Oppo App 2	Video	RF_OPPO_APP	Input	Pandora->Pandora
💿 Орро Арр 3	Video	RF_OPPO_APP	Input	CinemaNow->CinemaNow
💿 Орро Арр 4	Video	RF_OPPO_APP	Input	VUDU->VUDU
Oppo App 5	Video	RF_OPPO_APP	Input	YouTube->YouTube
💿 Орро Арр 6	Video	RF_OPPO_APP	Input	Picasa->Picasa
💿 Орро Арр 7	Video	RF_OPPO_APP	Input	Rhapsody->Rhapsody
💿 Орро Арр 8	Video	RF_OPPO_APP	Input	
💿 Орро Арр 9	Video	RF_OPPO_APP	Input	
💿 Орро Арр 10	Video	RF_OPPO_APP	Input	

- 8. Refresh Navigator
- 9. Congratulations you have setup the Oppo mini apps

## Setting up automatic room on/off

- 1. Launch the Composer Pro application and connect to your project
- 2. Highlight the '**Oppo Bluray Player'** driver on the left hand side.
- 3. This driver has the ability to automatically turn on the video endpoint and audio endpoint for a room upon disc detection. It is smart enough to only turn on the audio endpoint (eg receiver) when it detects an audio disc and smart enough to turn on the video endpoint (eg tv) and video's audio endpoint (eg receiver) when it detects a video disc. If you want this functionality select the room you want this to happen on.

Auto Room(s) Select	Select

4. This driver also has the ability to automatically turn off any room that has the driver selected when the unit is powered off. Eg when a person goes up to the bluray player to take the disc out when they are finished they can press the physical power button to turn the room off.

Auto Room Off True
--------------------

5. Congratulations you have setup automatic room on/off



# **Advanced Programming**

The driver includes numerous programming actions and events which can be utilised to perfect the customer's experience. Note since this is a universal driver that spans across all Oppo Bluray models not all of these features are available on all models. We recommend you test this out prior to promising any of this functionality to your customers. A list of all actions and events can be found below.

#### **Programming Actions**

- Press Remote Button
- Set Repeat Chapter
- Set Repeat Title
- Set Repeat All
- Set Repeat Off
- Set Shuffle
- Set Random
- Launch Netflix, Youtube, Vudu, Pandora, FilmFresh, Picasa, Rhapsody, CinemaNow
- Return to Home
- Set HDMI Output Resolution
- Set HDR
- Set Output TV Signal
- Set Time Information Display
- Set OSD Position

#### **Programming Events**

- Power On/Off
- Play
- Stop
- Pause
- Disc Tray Open



- Disc Tray Close
- Disc Tray Empty
- Disc Tray Loading
- Disc Type Bluray
- Disc Type DVD-Video
- Disc Type DVD-Audio
- Disc Type SACD
- Disc Type CDDA
- Disc Type HDCD
- Disc Type DATA
- Disc Type VCD
- Disc Type SVCD
- Audio Type Dolby Digital
- Audio Type Dolby Digital Plus
- Audio Type Dolby TrueHD
- Audio Type DTS
- Audio Type DTS-HD High Resolution
- Audio Type DTS-HD Master Audio
- Audio Type LPCM
- Audio Type MPEG Audio
- Audio Type CD Audio
- Audio Type Unknown
- In Home Menu
- In Media Center
- Source Resolution/Output Resolution



# Licencing

Chowmain drivers require a valid licence to use the driver. Drivers can be purchased from our distributor <u>driverCentral</u> however all Chowmain drivers come with a 7 day trial. We recommend that prior to purchasing a driver that you test the driver out to ensure that it will work with your hardware and will meet your requirements. The licencing procedure is broken down into 4 steps. A summary of the steps are below along however we have also provided detailed steps if the summary is not sufficient.

## **Summary**

- 1. Create your project on the driverCentral.io website (This will generate a specific token which you will use in the next step)
- 2. Download, install and activate the driverCentral cloud driver in your project (Only once per project. Use the token generated in step 1)
- 3. (Optional) To try a driver, simply download it and install it in your project
- 4. To purchase a driver:
  - a. On driverCentral, purchase a license and register it to your project
  - b. If the driver is not already installed in your project, download it and install it
  - c. If necessary, use the cloud driver's Action: "Check Drivers" to force licence download to the project.

## **STEP 1 - Creating your project on driverCentral**

- 1. Visit <u>http://www.drivercentral.io</u>
- 2. Log into your driver Central dealer account.
- 3. Visit the Project Portal
- 4. Click on Create Project

	Download Cloud Driver Create P	roje
Search in table		
Project Name ♦	Status ♦	
	« < <b>1</b> >	»



5. It will prompt you for a project name. Type in a meaningful name for your customer's project

Project Creation		
Project Name		
Enter Project Name		
	Create Project	

- 6. Click on Create Project
- 7. Click on the project we just created to expand the project

Status ≎	
«c «	<b>1</b> > »
	Status ♦ «     «

8. Take note of the Project Token as this will be used in STEP 3 when we install the driverCentral cloud driver.

	Project	
Project Token:	Last Communication:	Connection Status:
	Not Connected	Not Connected



## **STEP 2 – Purchase driver licence**

- 1. Visit <u>https://www.drivercentral.io/chowmain-ltd/</u> and find the product/driver you want to purchase a licence for.
- 2. Click on the Add to Cart button



3. Click on the Shopping Cart icon in the top right corner and click on View cart



4. Confirm that your order is correct and click on Proceed to checkout

#### Proceed to checkout

5. Follow the prompts and click on Sib, ot , u Prder



- 6. This will take you to PayPal for payment.
- 7. Pay via PayPal. It will automatically return to the marketplace when confirmed.
- 8. You will now be at a page where you can see your purchased licence.





9. From here assign the licence to the project we created or if you did not follow that step create a new project

License Assignment for		
Assign License to Existing Project	2	
Select Existing Project:		
New Project (enter project name below)	•	
New Project (enter project name below) Or Create a new project	·	
New Project (enter project name below) Or Create a new project Enter New Project Name	·	
New Project (enter project name below) Or Create a new project Enter New Project Name Enter email for Installer Notifi	·	
New Project (enter project name below) Or Create a new project Enter New Project Name Enter email for Installer Notifi Are you sure you want to do this?	·	

## STEP 3 - Install and activate the driverCentral cloud driver

**NOTE:** Only one instance of the driverCentral cloud driver installed per project. Do not install additional cloud drivers.

- 1. Visit http://www.drivercentral.io
- 2. Log into your driver Central dealer account.
- 3. Visit the Project Portal
- 4. Click on Download Cloud Driver

	Download Cloud Driver
Search in table	
Project Name ≑	Status 🗢
	« « <b>1</b> »

- 5. Copy the C4Z driver to My Documents\Control4\Drivers directory.
- 6. Add the driver to your project.



7. Click on the driver to view it's properties

Cloud Status	Please enter cloud project token below
Project Information	(1) Total, (0) Licensed, (0) Trials, (1) Expired, (0) Updates.
Driver Version	1001
Project Token	
	Project token from driverCentral.io project portal
Driver Actions	×
Debug Mode	⊂ Off ∽

- 8. Type in the project token we took note of in STEP 1.
- 9. Click on the Actions tab
- 10. Click on Check Drivers

## **STEP 4 – Install Chowmain driver**

- 1. Install the Chowmain driver
- 2. You will notice that the Activation Status reflects a Licence Activated state.
- 3. Any driver that does not have a purchased licence will have a trial licence activated via the marketplace. Note that there is no way to reactivate the trial so please use wisely.
- 4. If you do not then press the Check Drivers action in the driverCentral Cloud driver again.

Activation Status	Update Available!!! License Activated	
Driver Version	1002	
Driver Information	Navigate to connections tab and make serial binding	
Automatic Updates	Off	~