

Octava AVLAN AV over IP System guide is designed to assist installers, integrators, and end-users in setting up and configuring the Octava AVLAN AV over IP solution for seamless audio-visual distribution over standard IP networks. Whether you're deploying in a commercial, educational, or residential environment, this system offers a scalable and flexible way to transmit high-quality video and audio signals over Ethernet. In this guide, you'll find step-by-step instructions covering hardware setup, network configuration, system topology, and troubleshooting tips to ensure a smooth and efficient installation. Please read through the entire guide before beginning installation to ensure optimal performance and compatibility.

The Octava AVLAN Matrix System works in conjunction with a Cisco CBS-250 or 350 series managed Ethernet switch.

What you will need:

1. A fully functioning wireless router at your location.
Example, you can already connect to this wireless router to access Internet
2. A LAN port on the wireless router to connect to the Cisco Ethernet Switch.

1. Connect Cisco CBS250 or 350 Port 48 to your WIFI Router



Port G48

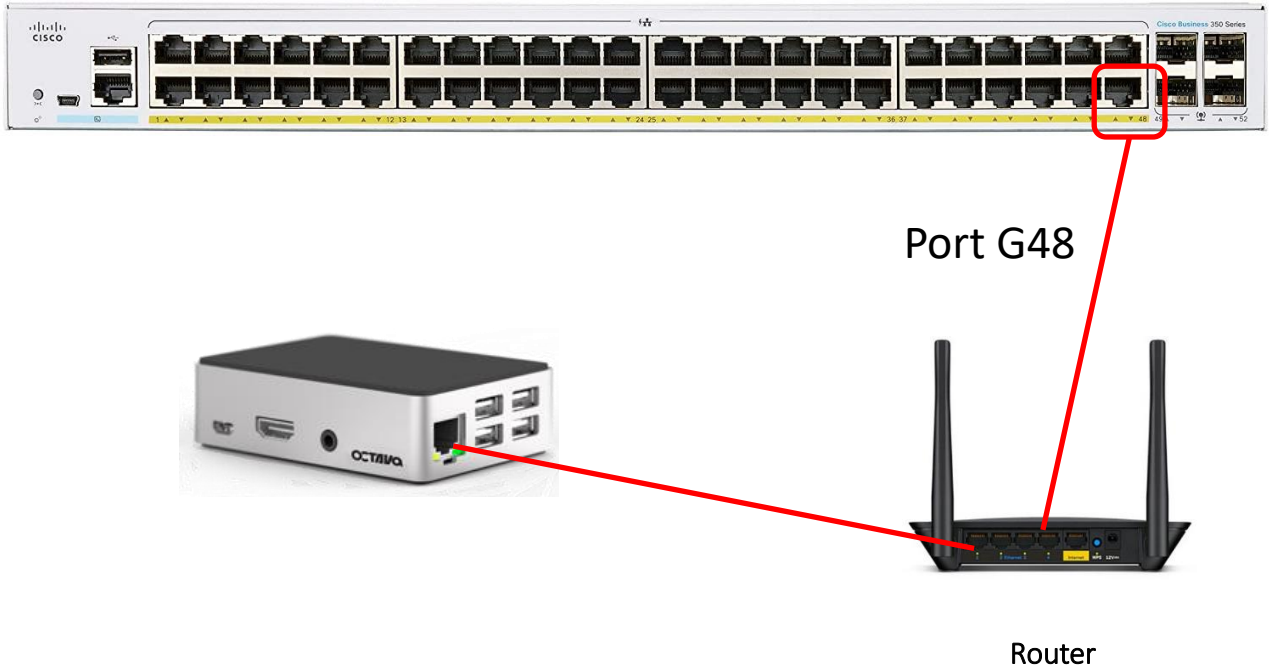


Router

1.1 Wait for the System light to STOP blinking before proceeding.



2. Connect Octava Controller to your WIFI Router



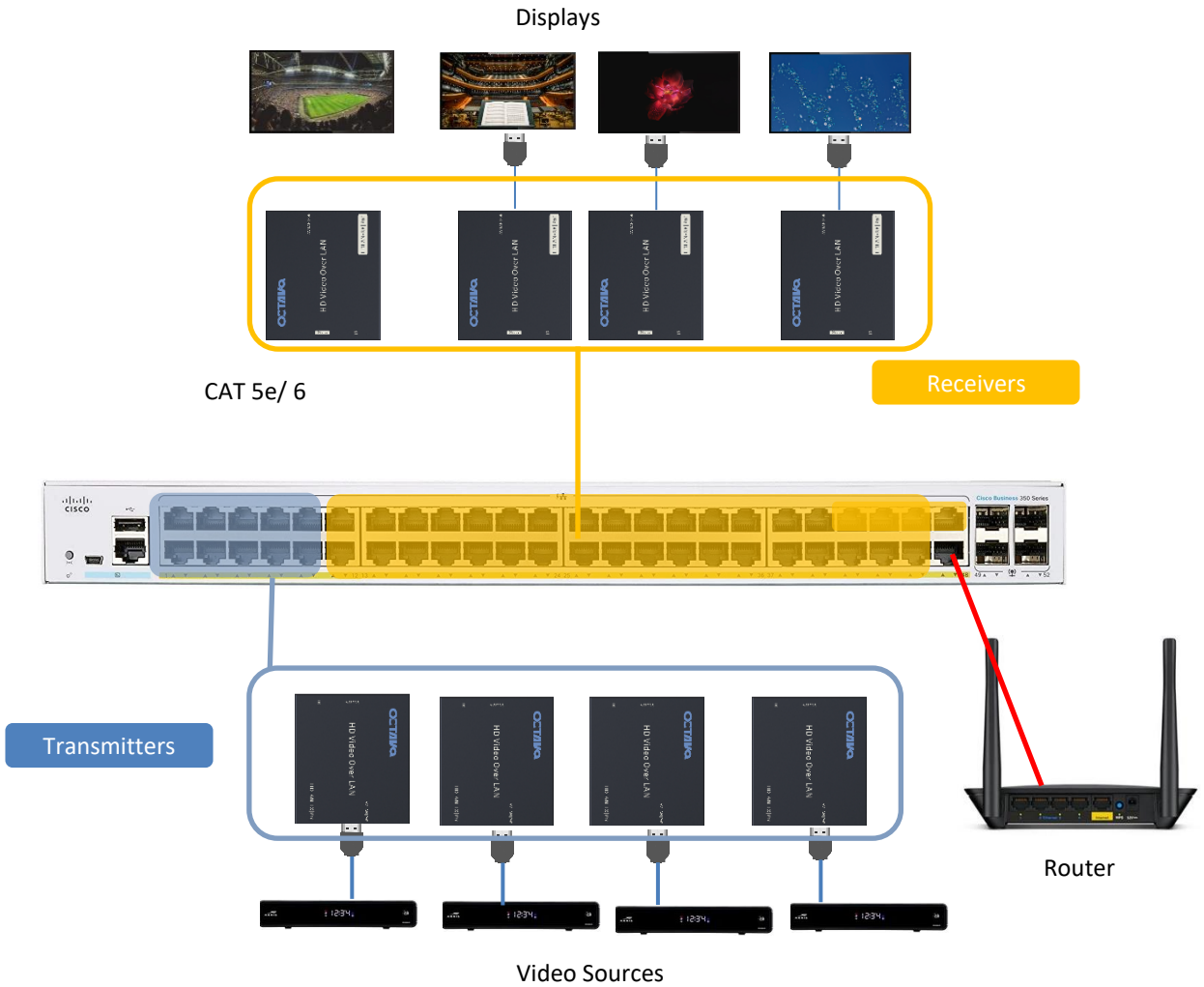
3. Use a network scanner or log into your WIFI Router and note the assigned IP address and note:

	octava-hdlan-controller	Raspberry Pi • Raspberry Pi
	octava-cbs250-48pp	Cisco

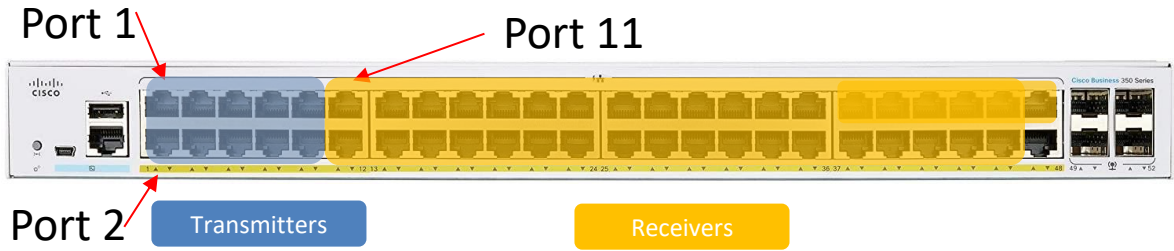
		Assigned IP Address
3.1	Octava Controller (octava-AVLAN-controller)	
3.2	Cisco CBS 250 or 350 (octava-cbs250-48pp)	

! In your router, execute DHCP Reservation to both the Octava Controller and Cisco CBS switch to prevent the IP address from changing !

4. Connect the AVLAN



Connection Check List



Video Sources	Cisco Switch Port	Note
Input 1	1	AVLAN Transmitter
Input 2	2	AVLAN Transmitter
Input 3	3	AVLAN Transmitter
Input 4	4	AVLAN Transmitter
Input 5	5	AVLAN Transmitter
Input 6	6	AVLAN Transmitter
Input 7	7	Leave unconnected if not used
Input 8	8	Leave unconnected if not used
Input 9	9	Leave unconnected if not used
Input 10	10	Leave unconnected if not used

Connection Check List (Displays)

Displays	Cisco Switch Port	Note
Display 1	11	AVLAN Receiver
Display 2	12	AVLAN Receiver
Display3	13	AVLAN Receiver
Display 4	14	AVLAN Receiver
Display 5	15	AVLAN Receiver
Display 6	16	AVLAN Receiver
Display 7	17	AVLAN Receiver
Display 8	18	AVLAN Receiver
Display 9	19	AVLAN Receiver
Display 10	20	AVLAN Receiver
Display 11	21	AVLAN Receiver
Display 12	22	AVLAN Receiver
Display 13	23	AVLAN Receiver
Display 14	24	AVLAN Receiver
Display 15	25	AVLAN Receiver
Display 16	26	AVLAN Receiver
Display 17	27	AVLAN Receiver
Display 18	28	AVLAN Receiver
Display 19	29	AVLAN Receiver
Display 20	30	AVLAN Receiver

Connection Check List (Displays)

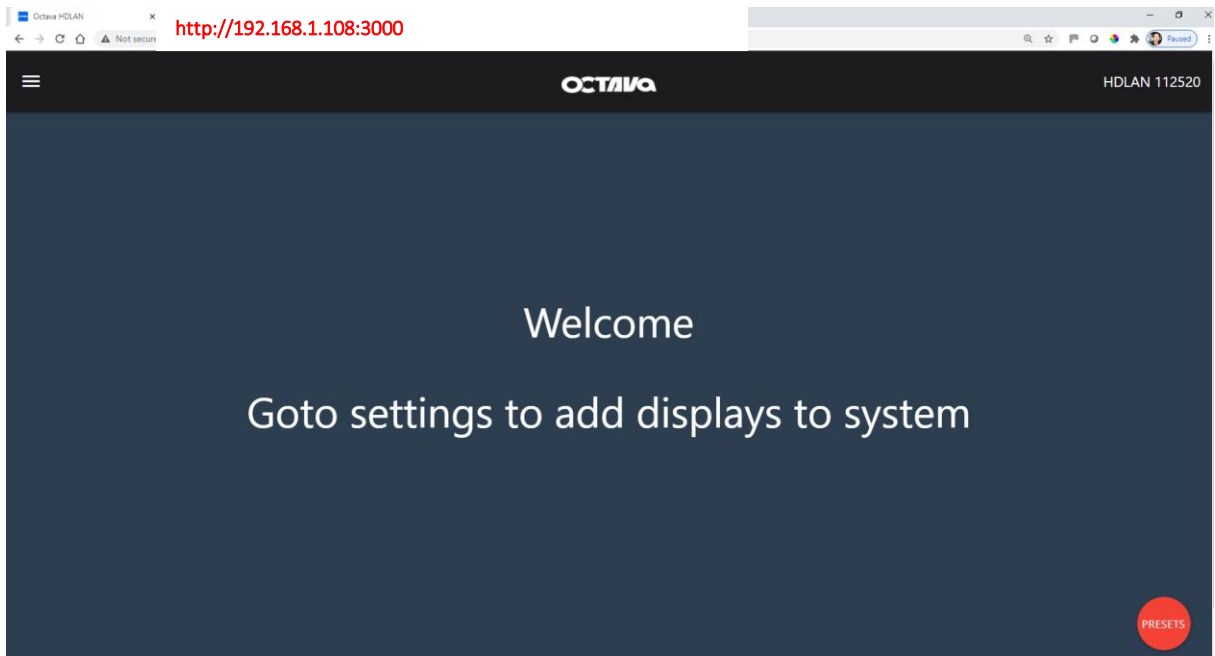
Displays	Cisco Switch Port	Note
Display 21	31	Leave unconnected if not required
Display 22	32	Leave unconnected if not required
Display23	33	Leave unconnected if not required
Display 24	34	Leave unconnected if not required
Display25	35	Leave unconnected if not required
Display 26	36	Leave unconnected if not required
Display27	37	Leave unconnected if not required
Display 28	38	Leave unconnected if not required
Display29	39	Leave unconnected if not required
Display 30	40	Leave unconnected if not required
Display31	41	Leave unconnected if not required
Display 32	42	Leave unconnected if not required
Display33	43	Leave unconnected if not required
Display 34	44	Leave unconnected if not required
Display35	45	Leave unconnected if not required
Display 36	46	Leave unconnected if not required
Display37	47	Leave unconnected if not required
Network Router/Switch	48	Connect to Network Router
Network Router/Switch	49-52	Leave Unconnected

5. Connect your iPad/PC to the same WIFI Router

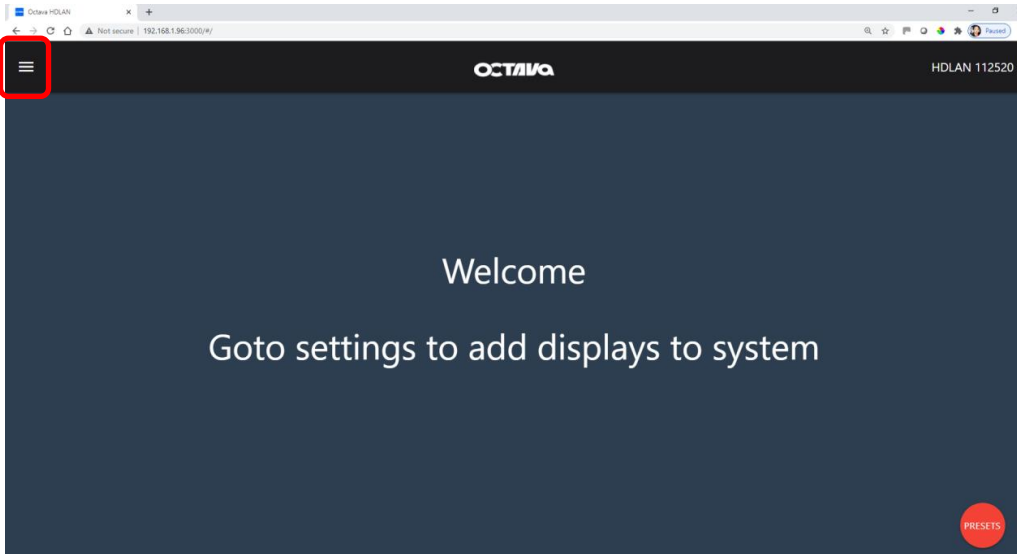
6. Open browser on your iPad/PC (Chrome or Safari recommend)

Enter the ip address of the octava controller followed by :3000

For example: 192.168.1.108:3000 (example only)

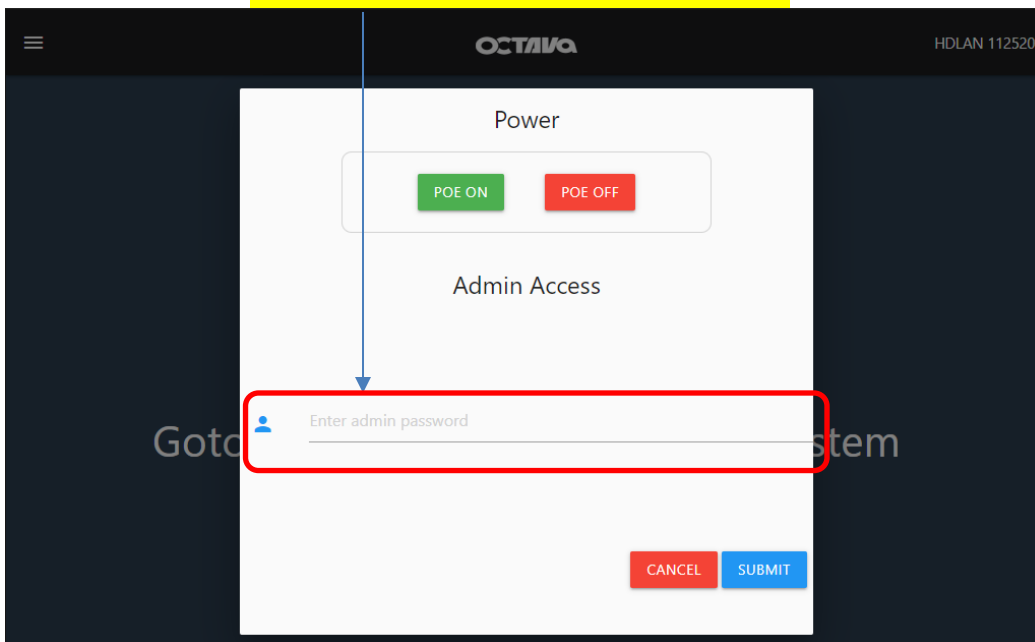


7. Open the Menu

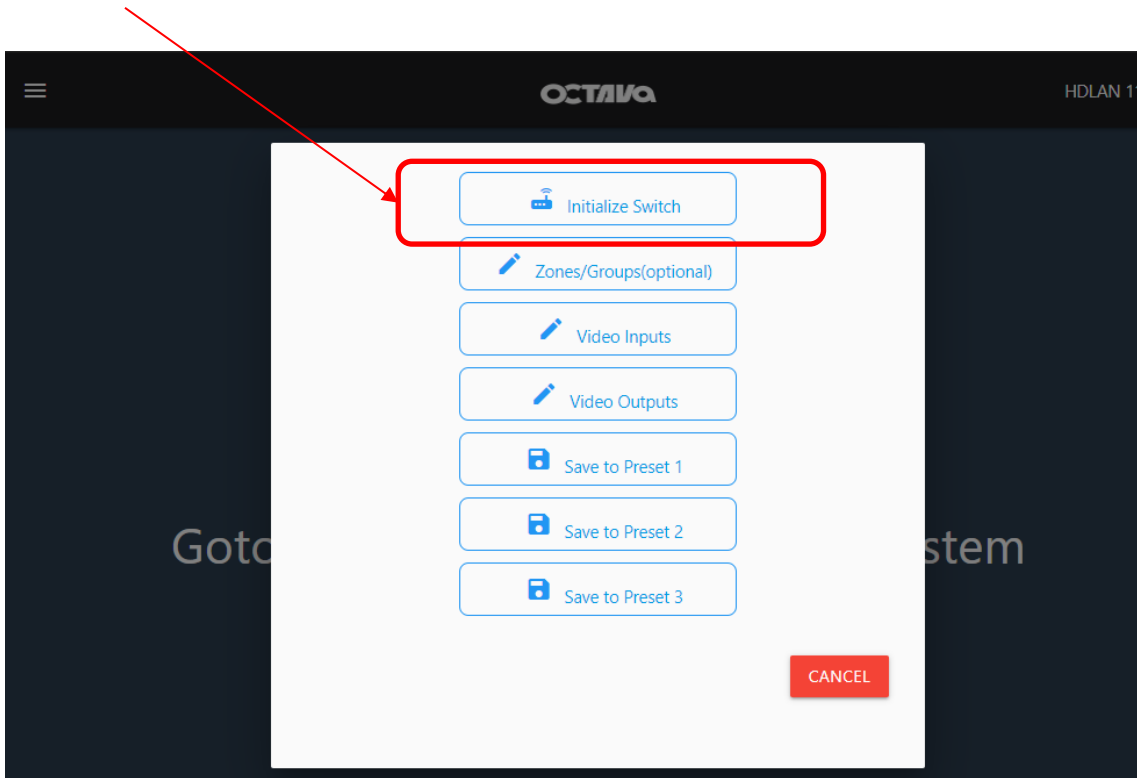


8. The Admin Password is = octava

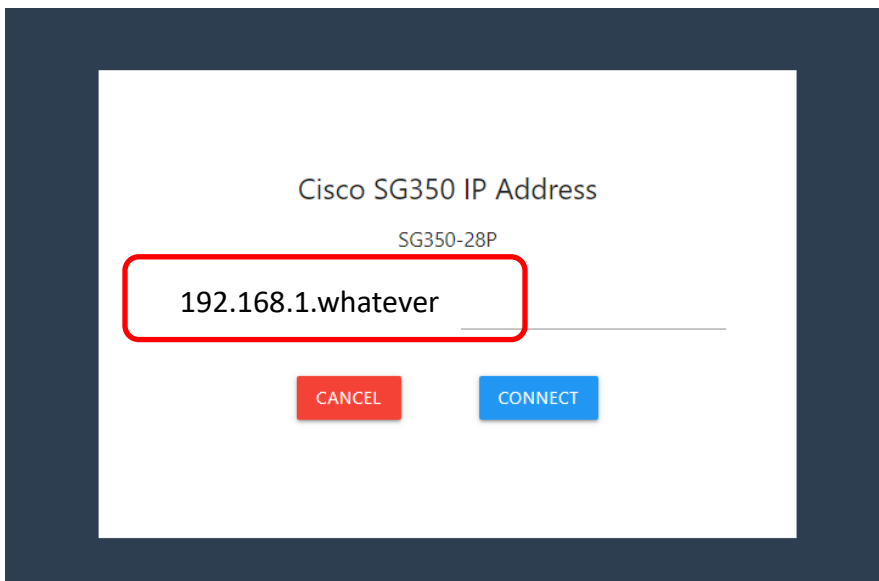
Admin Password = octava



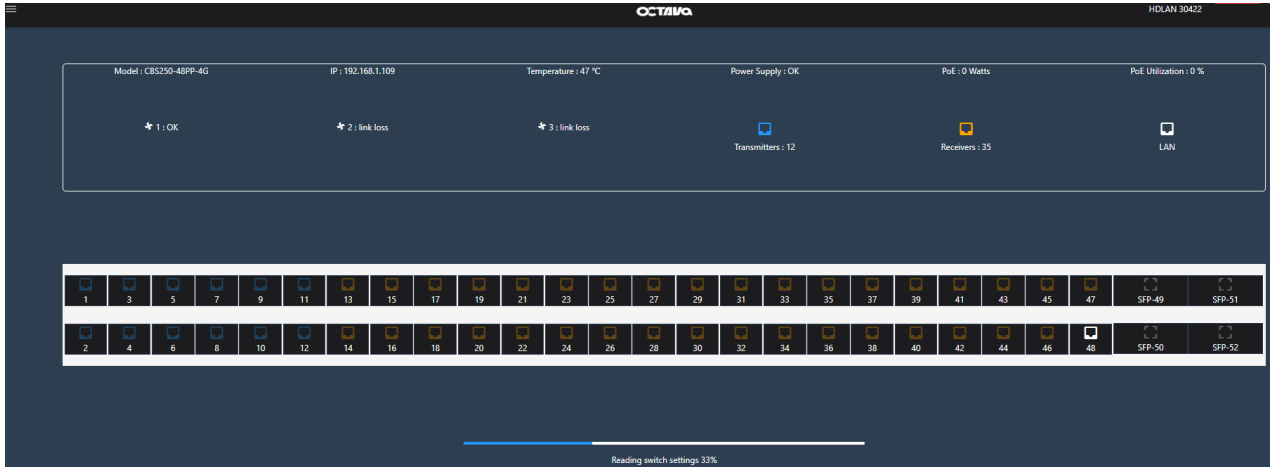
9. Choose Initialize Switch



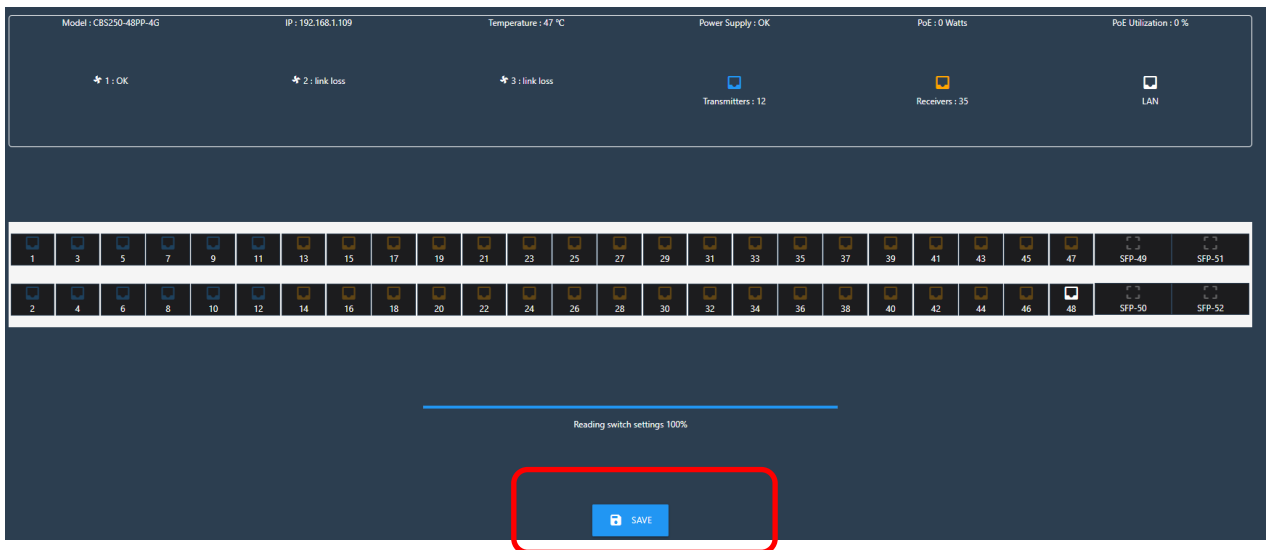
10. Enter the ip address assigned to the Cisco SG350 switch (see section 3.2). Then Connect



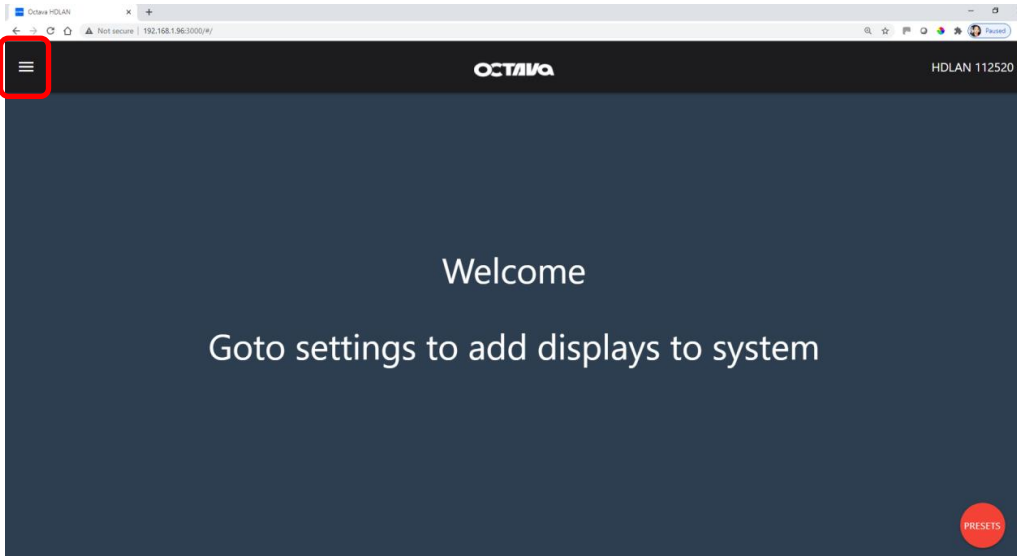
11. Wait for switch to be scanned



12. Press SAVE when scanning completed 100%

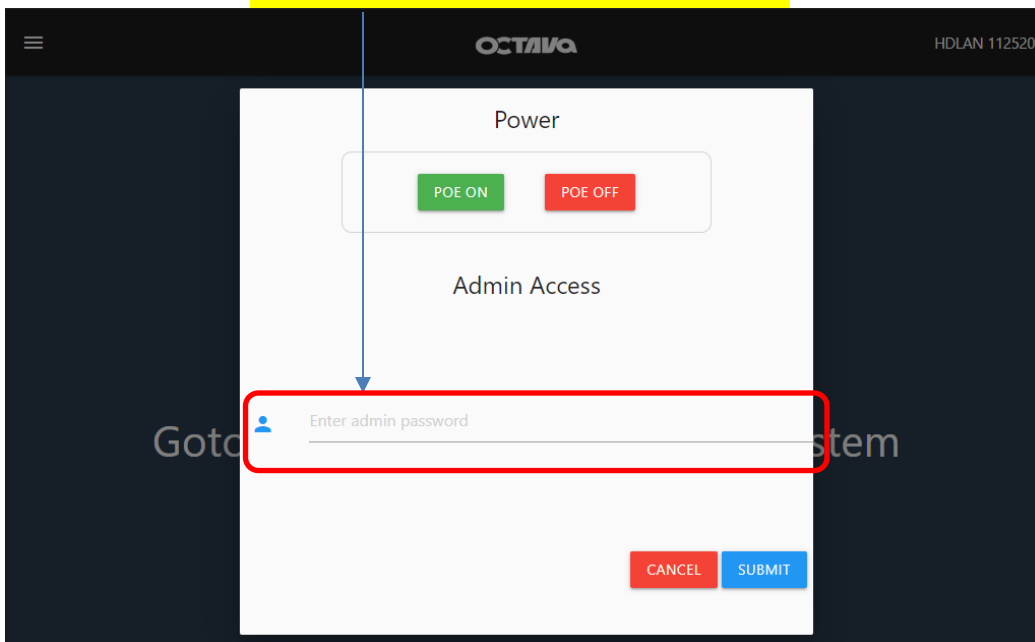


12. Open the Menu

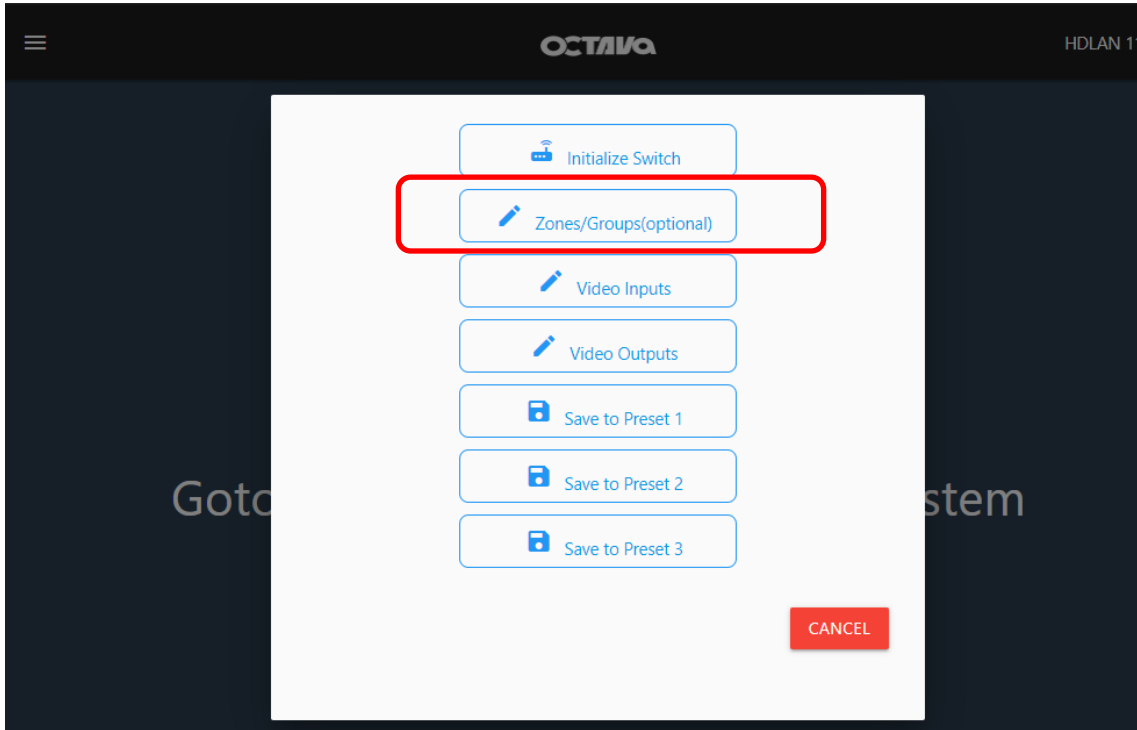


13. The Admin Password is = octava

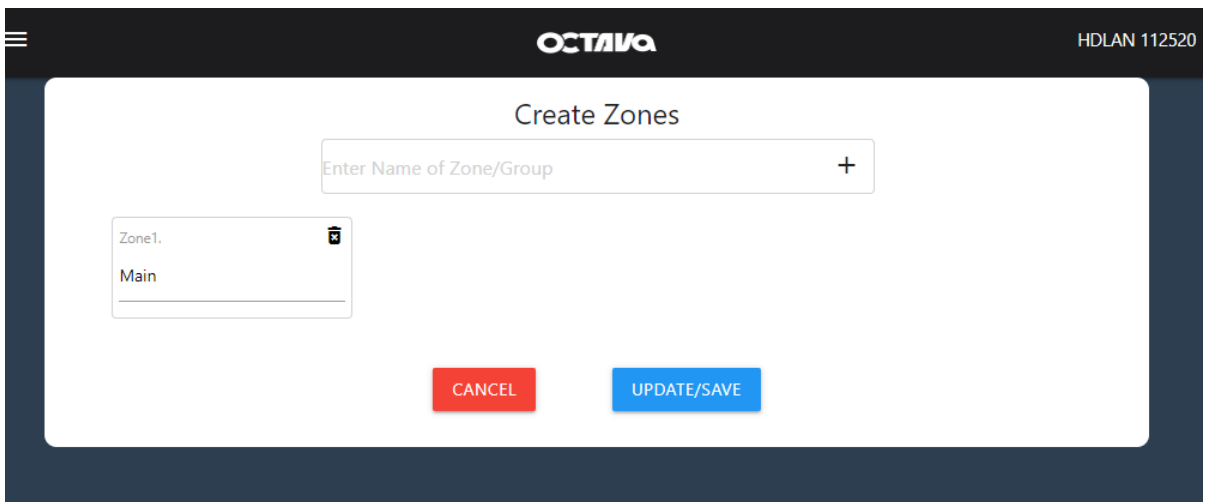
Admin Password = octava



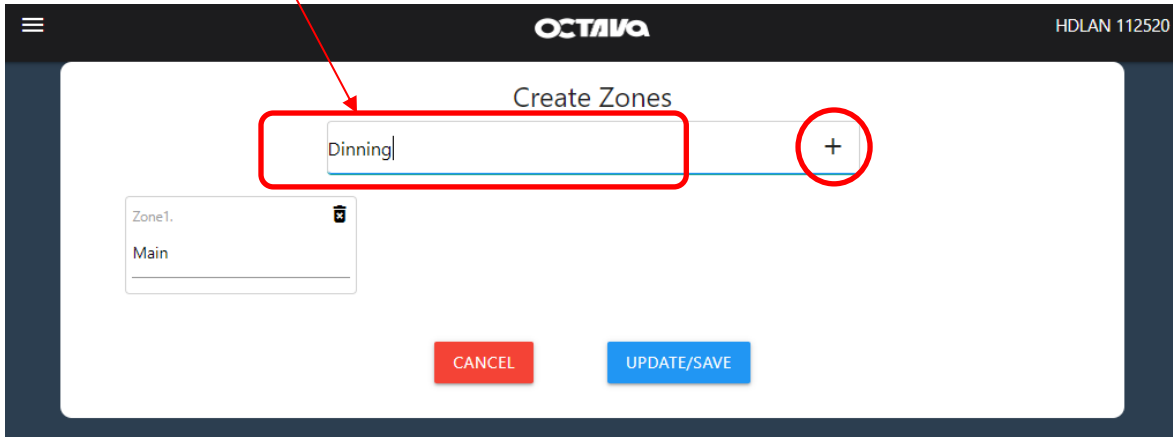
14. Choose Zones



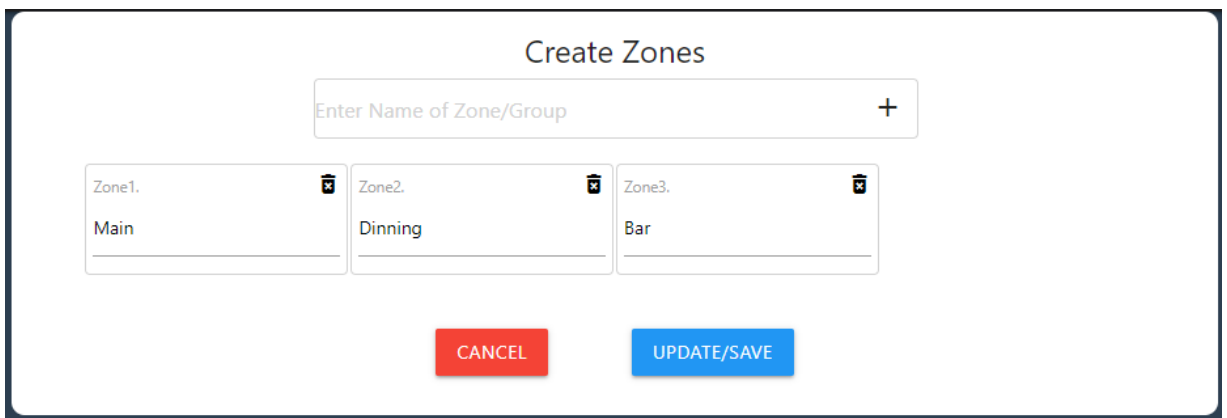
15. Add name of Zones .



16. Add Zones as needed . Press + to add

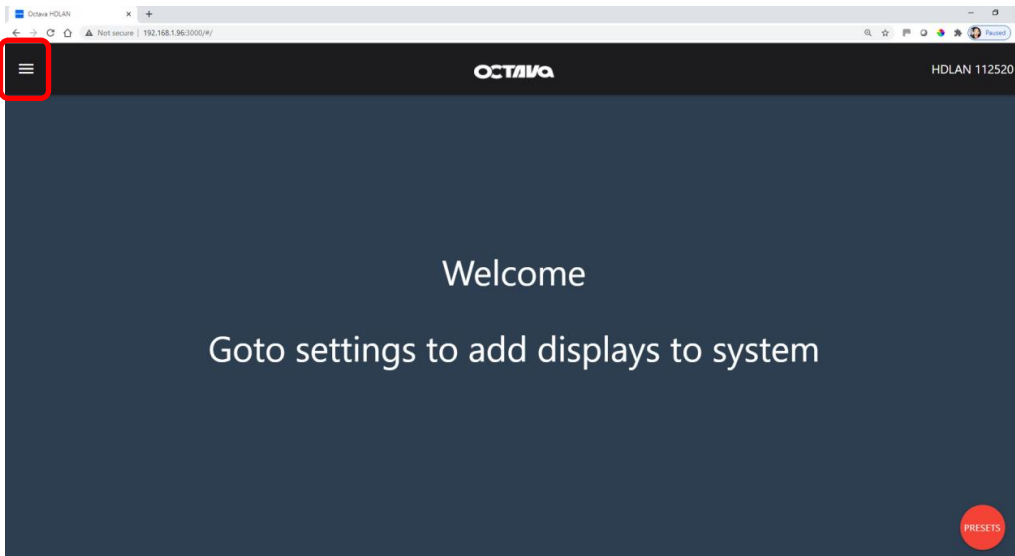


17. You will see the Zone1 and additional Zones listed



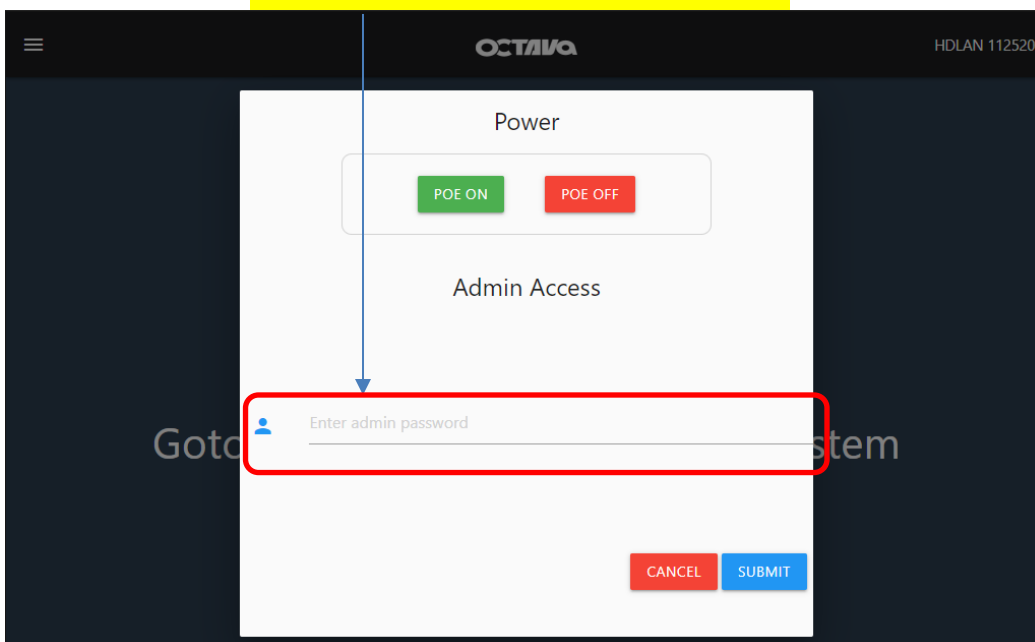
18. Press UPDATE/SAVE when complete

18. Open the Menu

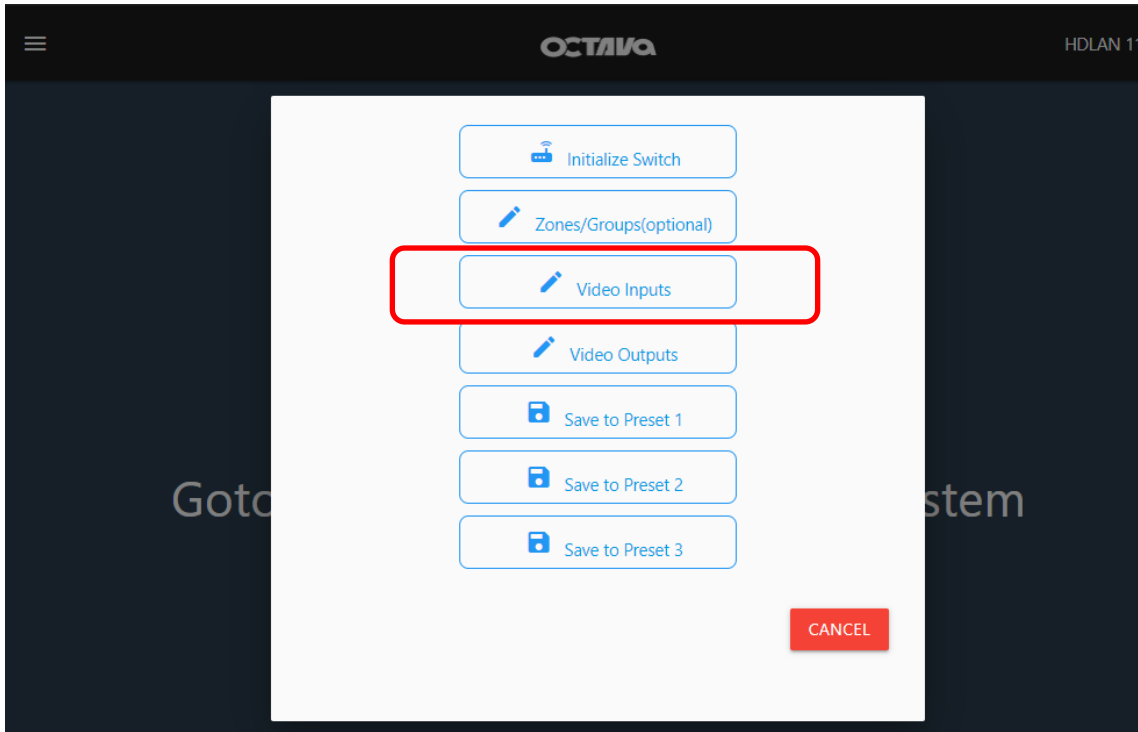


19. The Admin Password is = octava

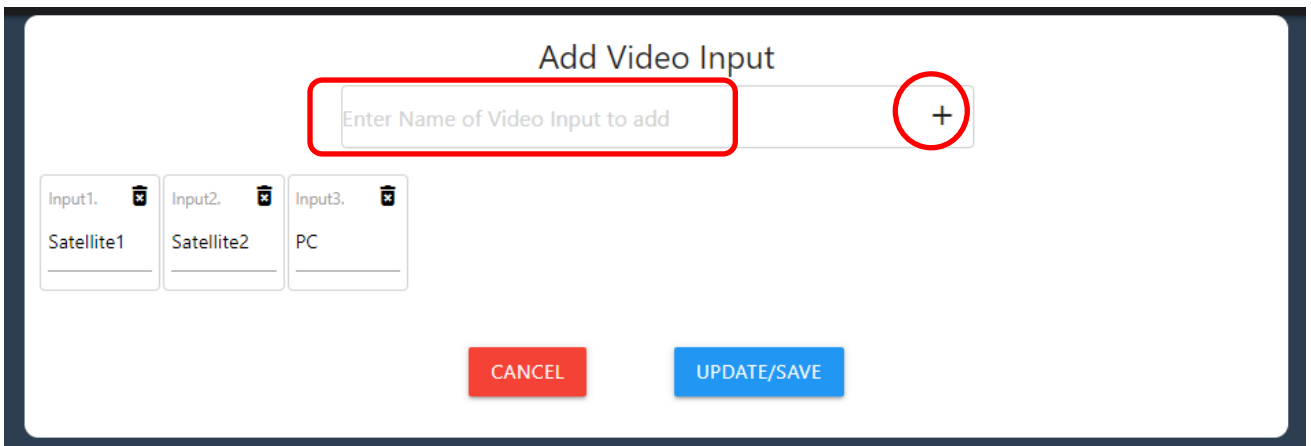
Admin Password = octava



20. Choose Video Inputs

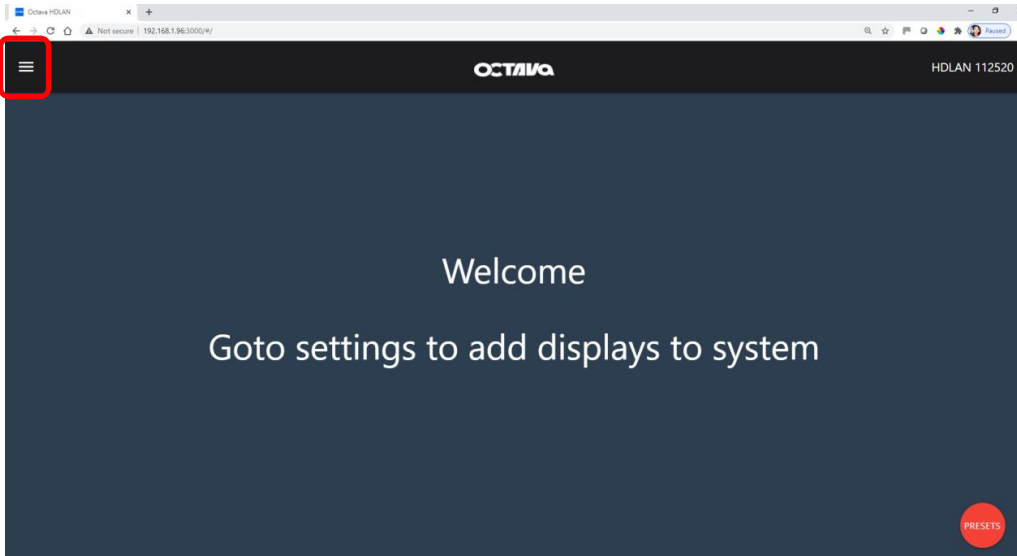


21. Add name of Each Video Input



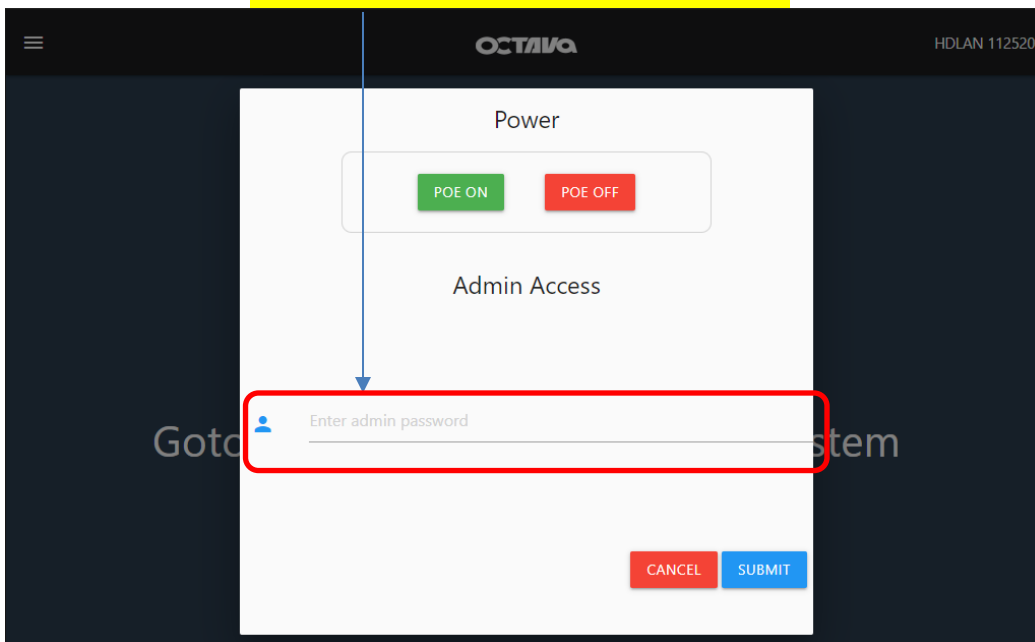
22. Press UPDATE/SAVE when complete

23. Open the Menu

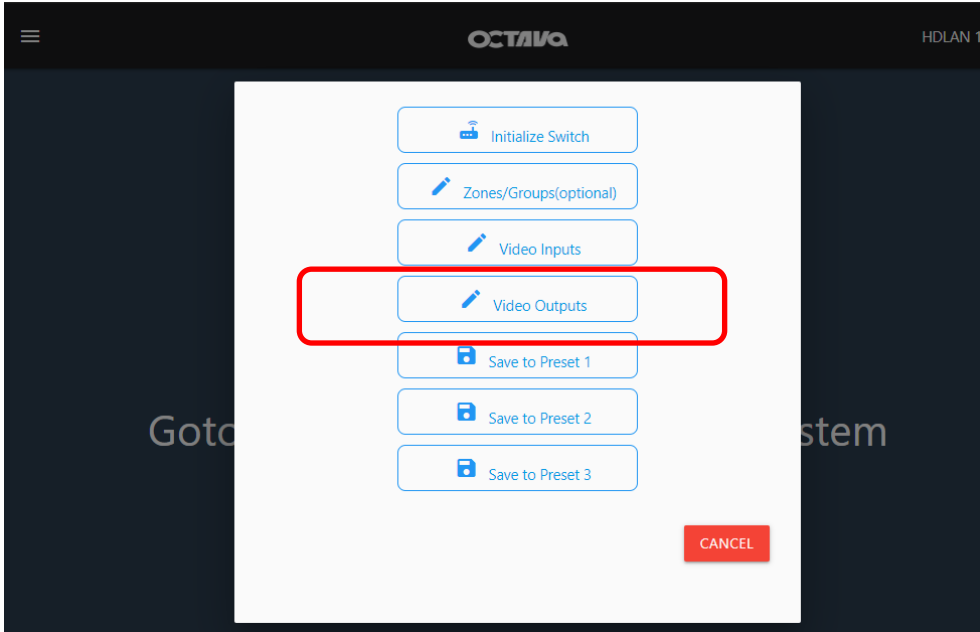


24. The Admin Password is = octava

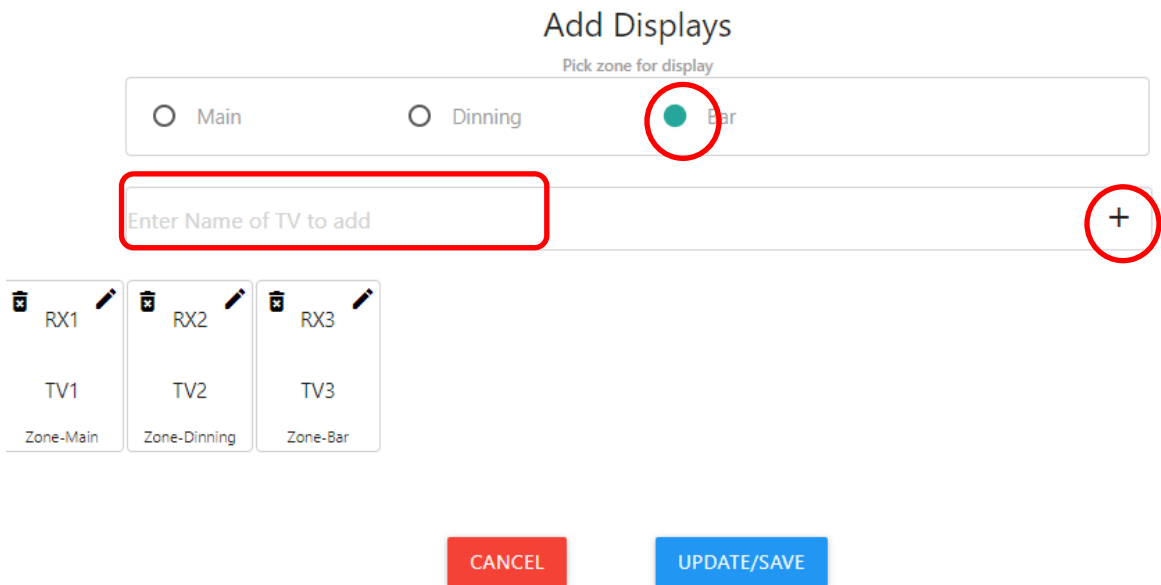
Admin Password = octava



25. Choose Video Outputs



26. Assign a Zone , Name the TV and Add

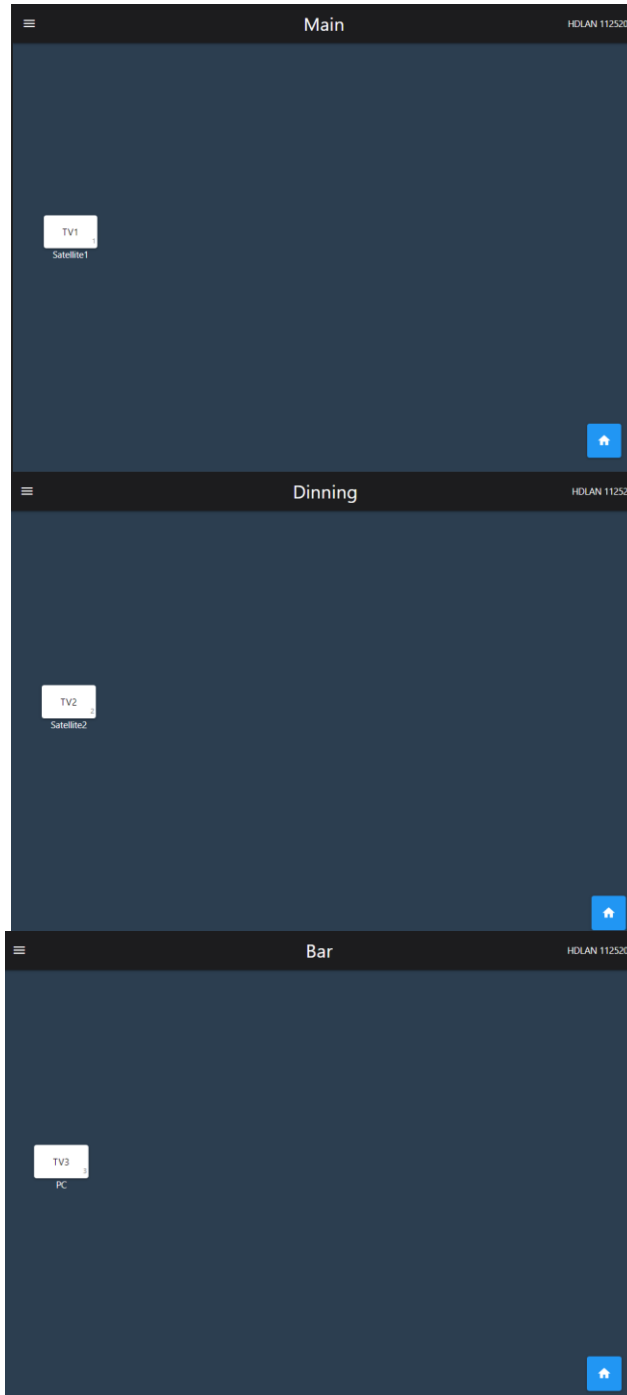


27. Press UPDATE/SAVE when complete

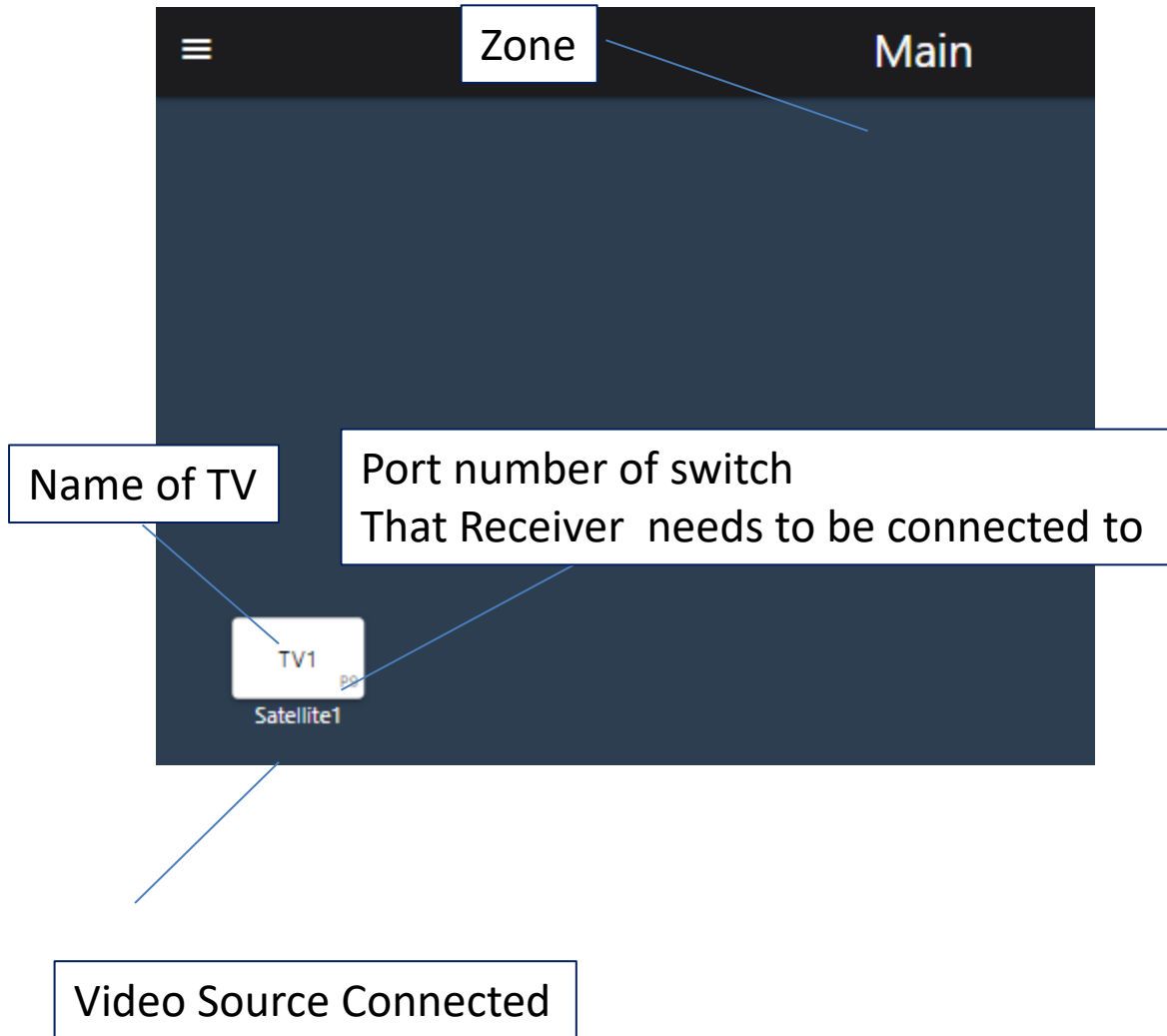
27. The Main page will display your Zones



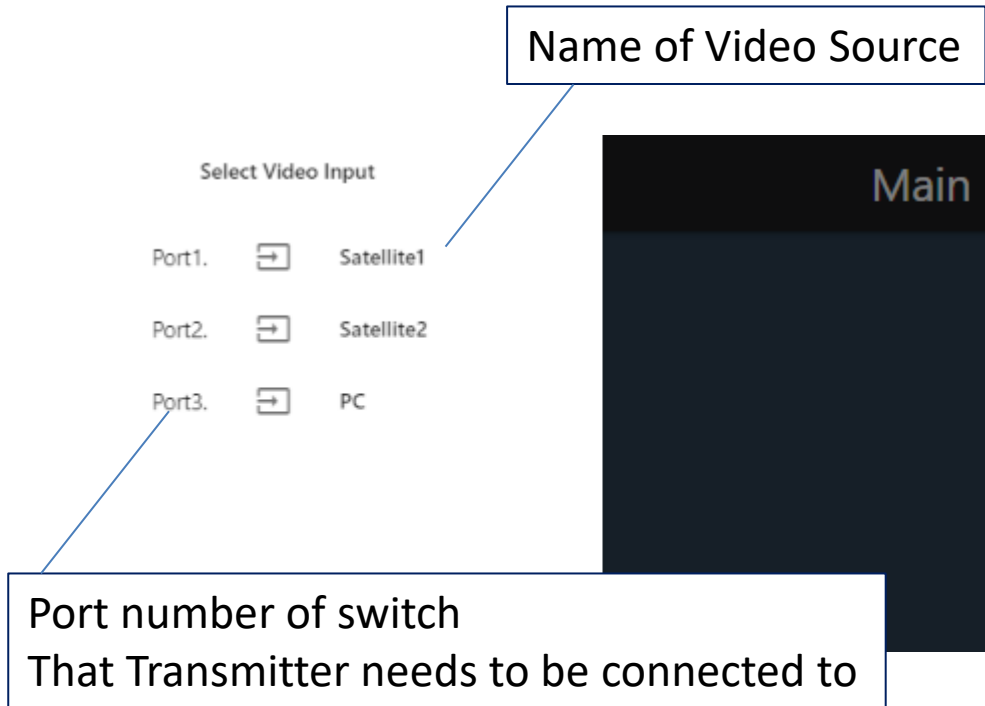
28. TV selections will be under the Zones.



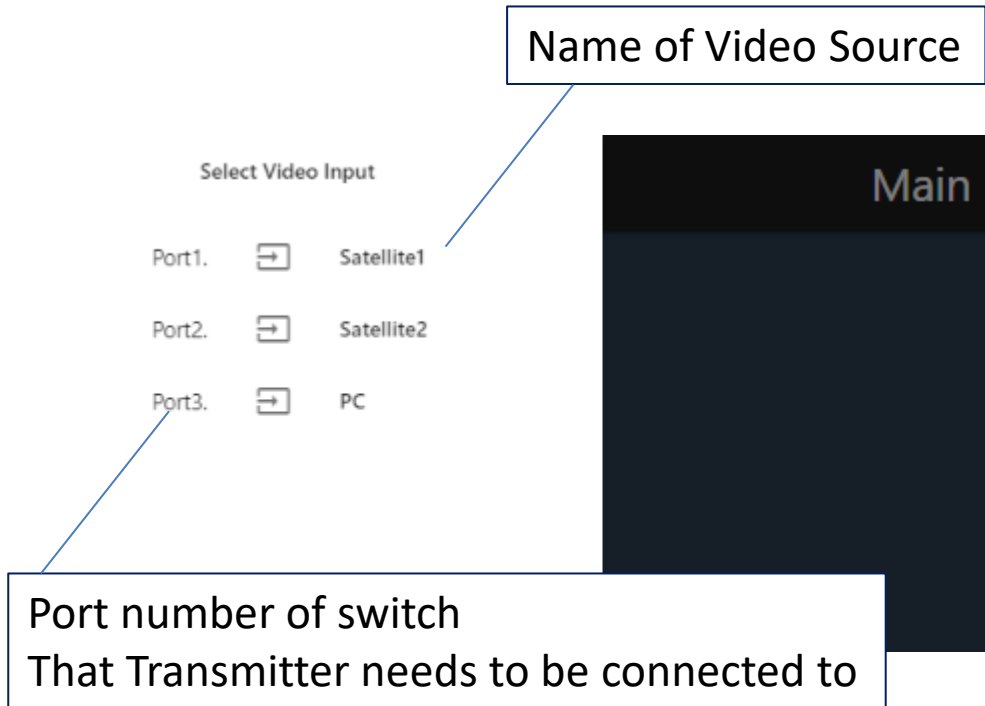
Display Indicator



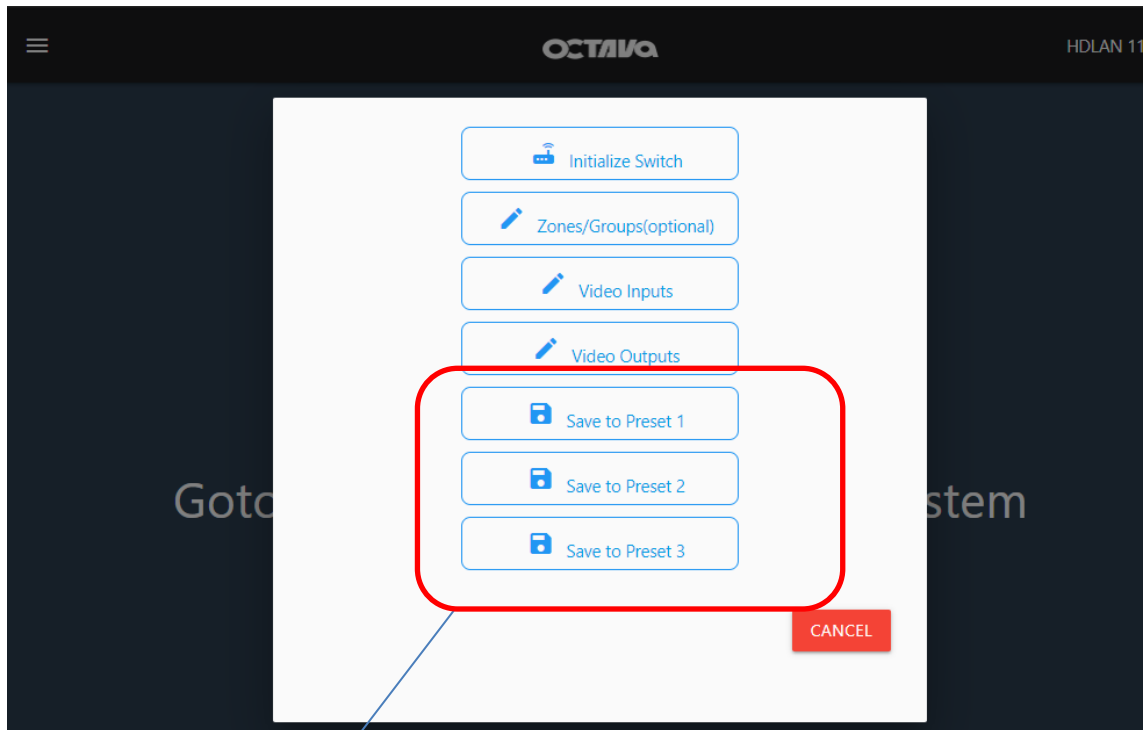
Source Video Input Indicator



Source Video Input Indicator

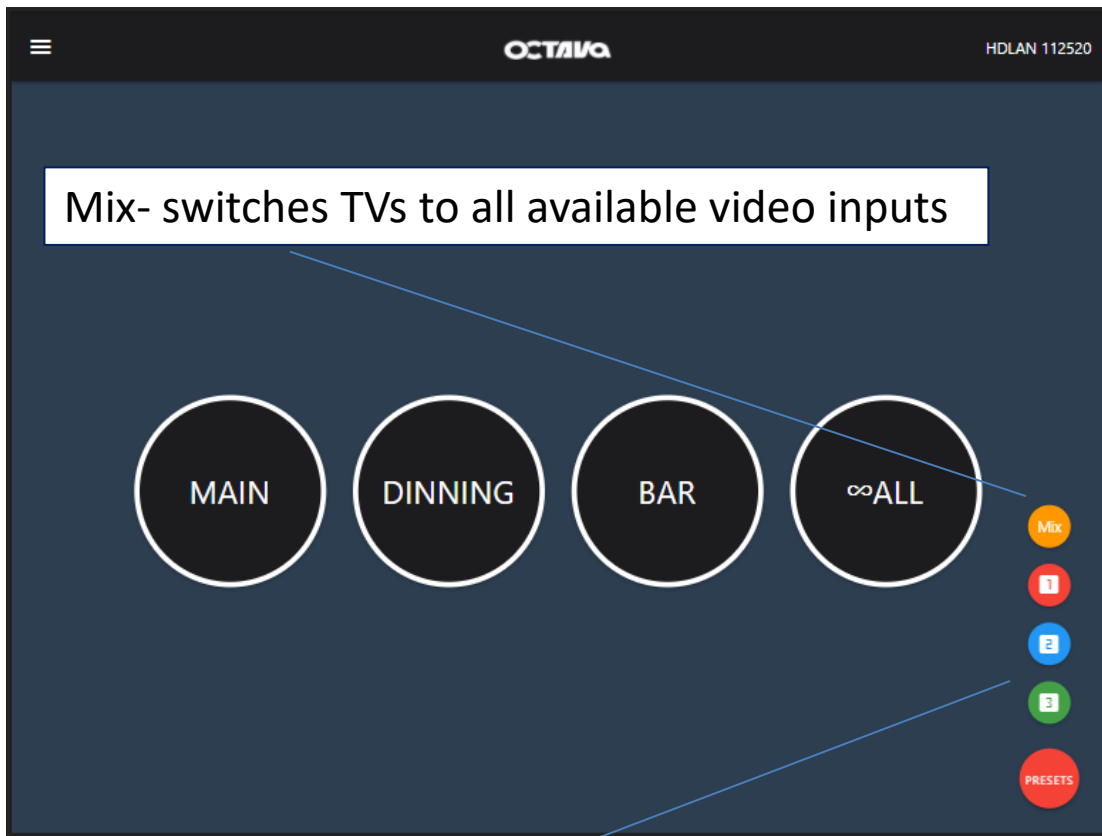


Presets



Presets allow you to save current video scene as a favorite

Presets and Mix



Presets

To access the controller, Open browser on your iPad/PC (Chrome or Safari recommend)

Enter in the browser bar , ip address of the Octava Controller (see section 3.1 followed by **:3000**

For iPad Safari, you can save this page to home page for easy access. Use the 'ADD to Home Page' feature of Safari.

<https://www.youtube.com/watch?v=5-dyP7geSds>