Fountain Show Controller - Datasheet

The Fountain Show Controller is a cutting-edge solution for managing and controlling modern digital fountains. With its user-friendly interface and advanced features, this controller simplifies the process of creating stunning water displays that are perfectly synchronized with lighting.

Key features

- **Wide Range Input Voltage**: The device supports a wide range of input voltages, accepting 9-24V DC for its power supply.
- **Cross-Platform Compatibility**: Control the system conveniently from your Android device or computer, providing flexibility and ease of use.
- **User-Friendly Interface**: Designed for intuitive operation, making it accessible for users of all skill levels.
- **Wireless Data Transmission**: Capable of sending wireless data, adding an extra layer of convenience and flexibility to your setup. (Supports all wireless SyncD devices).
- **Portable and Compact**: Its compact design allows for easy transportation and use in various environments.
- **Versatile Applications**: Suitable for testing a wide range of DMX-controlled equipment, from lights to effects machines.
- **Comprehensive DMX Channel Testing**: Effortlessly keep track of all DMX channels to ensure accurate signal transmission.
- **DMX512 output:** Seamlessly integrates with DMX systems, allowing precise control and coordination of lighting and effects.
- **Micro SD Card Support:** Easily upload and manage show sequences files directly from a micro SD card.
- **LED Indicators:** Features LED indicators for status monitoring, making it easy to identify operational status and troubleshoot any issues quickly.
- **Sequential Playback**: Files in the playlist will be played in sequence, ensuring a smooth and continuous show without manual intervention.

SYNCD

Specification

Connectors	9 x 3 pin screw terminal
	1 x 2 pin screw terminal
	(XLR to 3 pin cable optional)
IP rating	IP20
LED indicators	Yes
Protocol Supported	DMX512
Maximum output channels	512
Configuration Software	SyncD
Input Voltage	9-24V DC
Input Current	450mA
Analog Output (0-5V DC)	12
Analog Output (0-10V DC isolated)	3
Digital Input	2
Body material	ABS plastic
Mounting options	Din-Rail mount
Unit weight	220 gm
Unit dimensions	135 x 70 x 65 mm
Warranty	1 year

DMX Connector pinout

Pin 1: Ground (Common)	Pin 2: Data Negative (-)	Pin 3: Data Positive (+)

Any appropriate 3-pin DMX adapter can be utilized to connect to 3-pin DMX cables or fixtures. Make sure to verify the pinout before connecting to any non-standard DMX connector.

Safety

- Refer to the manuals or documentation of your DMX fixtures and adapters to confirm the pinout configurations.
- The device relies on convection cooling; therefore, ensure it receives adequate airflow to effectively dissipate heat.
- If unsure, use a multimeter to test continuity and confirm the pinout of the cables and connectors.
- Ensure the device is kept away from rain or moisture as it is designed solely for indoor use.
- Avoid removing the cover as it contains no user-serviceable components.
- Make sure your installation is safeguarded against short circuits and overcurrent.
- Verify all connections are complete and fully secured before powering the device.
- Additionally, never connect DMX ground (GND) to an electrical earth connection.

Setup – Through android application

- Application installation

Scan this QR code or click on the below link to install SyncD application.

Link
https://play.google.com/store/apps/details?id=com.dhyanitech.syncd

SYNCD

- **Powering the SyncD controller.**

  Supply 9-24V DC to power up the device.
  Upon startup, a red POWER LED will illuminate.
  During data processing green DATA LED will blink.

LED Indication	Power LED	DATA LED
No power	OFF	OFF
Power on	ON	OFF
SD card present / working	ON	OFF
SD card not present / not working	ON	SLOW BLINK
Device Run / processing	ON	FAST BLINK

- **Connect the device.**
  Launch the application.

| STEP : 1	STEP : 2	STEP : 3
Open Application SyncD: You might see this screen **Device Settings:** 1) Turn on SyncD device. 2) Turn on mobile Wi-Fi. 3) Select the device From Below List. 4) Press the connect button. Select Device SyncD FSC SyncD-FSC Connect SyncD-FSC **Connect to New WiFi**	Please note: "Wi-Fi – Location must be enabled" Press Connect button. Select Device SyncD FSC SyncD-FSC Connect SyncD-FSC **You may see** Location Required Location services must be enabled to scan WiFi networks. Please enable location services. Cancel Open Location Settings WiFi Required Please enable WiFi to connect to the device. Cancel Open Settings **Open Settings and enable it.** Location Wi-Fi Use location Wi-Fi	By clicking Connect. This screen may appear Device Settings: 1) Turn on SyncD device. 2) Turn on mobile Wi-Fi. 3) Select the device From Below List. 4) Press the connect Select Device SyncD FSC SyncD-FSC Connect SyncD-FSC **SyncD FSC** Connecting to SyncD-FSC... Connect to New WiFi
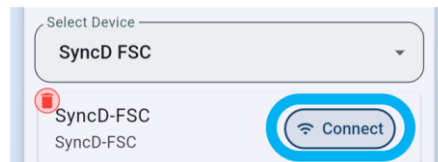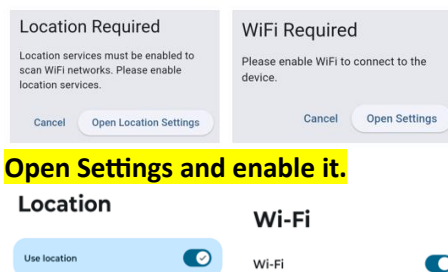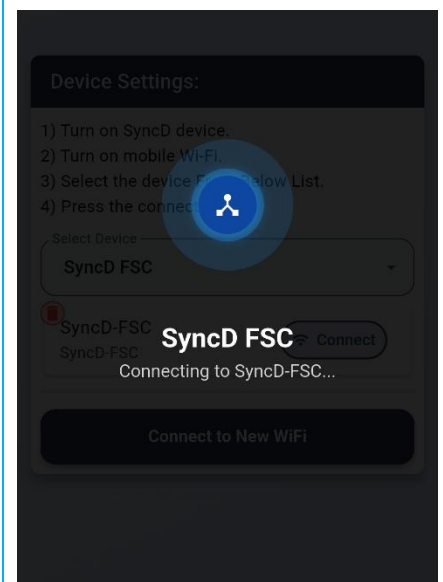
Status

On successful setup you may see this screen with Status: *Connected*.
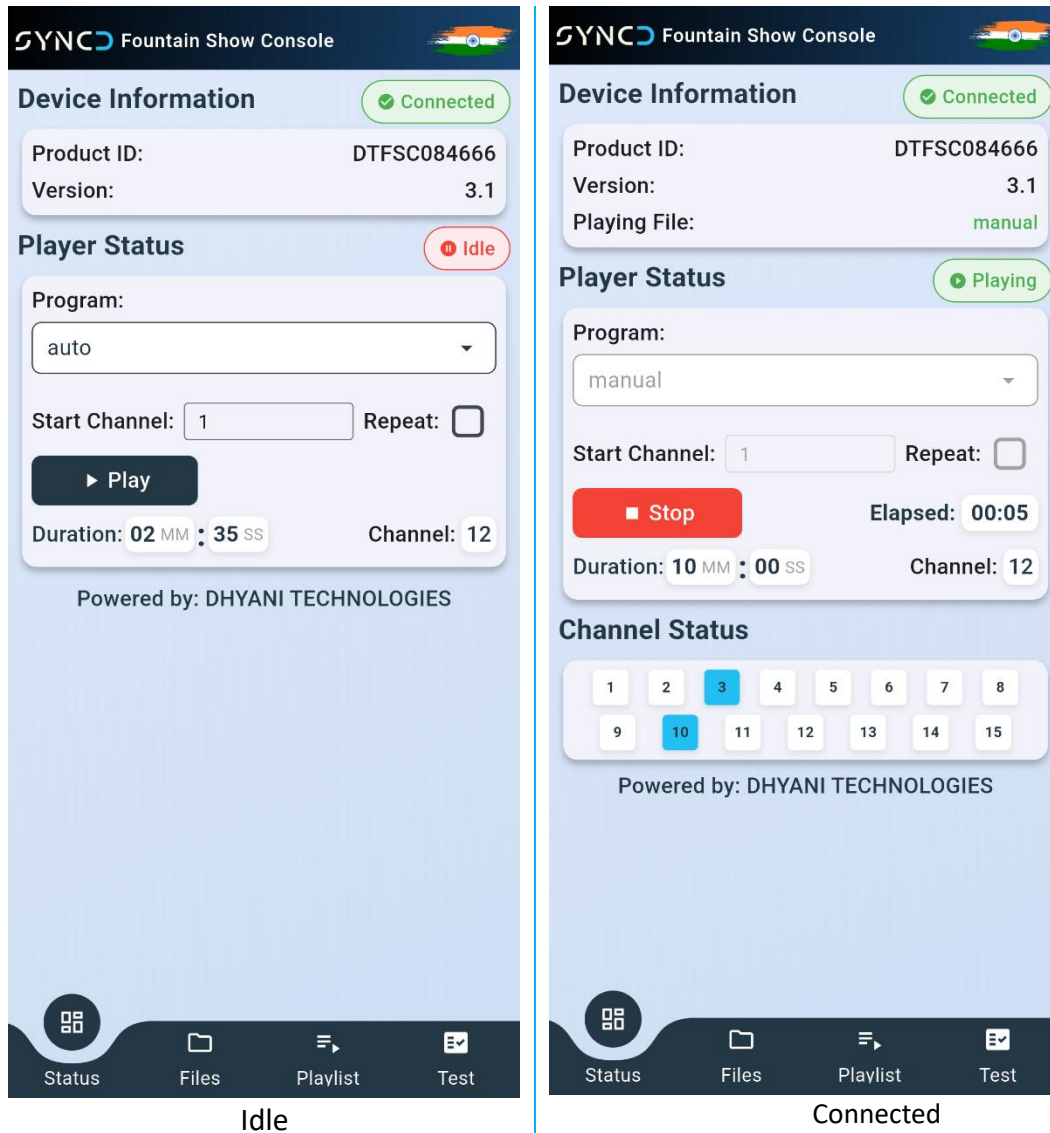
Idle

Connected

| **Status:** Whether the device is **Connected** or not.

| **Product ID.:** Unique identity number of SyncD device. (e.g. DTFSC084666 here)

| **Player Status:** Idle / Playing

       Idle: No program is currently playing.

       Playing: A program is currently playing.

| **Program:** Display program files list. Select file to run. Change the program file form drop down menu.

| **Playlist:** Display Playlist. Select playlist to run. Files in the playlist will be played in sequence. The playlist is shown only when at least one playlist has been created.

 Play: To start the show. | **Stop:** To stop the show. | **Refresh:** To refresh the controller. | **Repeat:** Set repeat for repeating the show continuously. | **Channel:** Shows the total DMX channels used. | **Channel Status:** Enable channel Status for visualize the live DMX channels value.

Files

Add, delete and manage program files here.
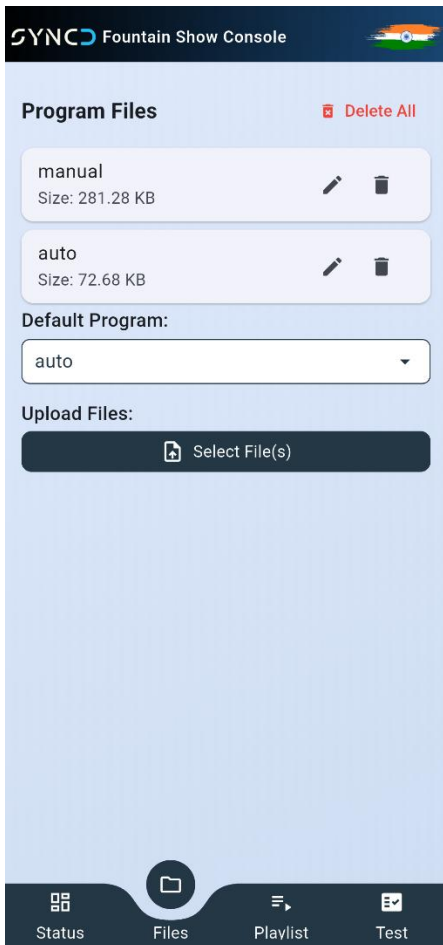
| **Program Files:** Displays the programs installed on the controller. Files can be renamed or deleted.

| **Default Program**: Use the dropdown menu to select a program file as the default program. The selected default program will run when the controller turns on.

| **Upload Files:** To upload new program files to the Fountain Controller, click *Select Files*. Once the upload is complete, an 'File Uploaded Successfully' message will appear on the screen."

Playlist

Add, delete and manage playlist here.
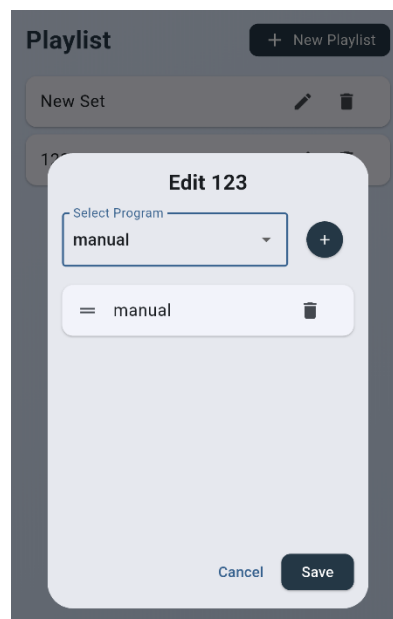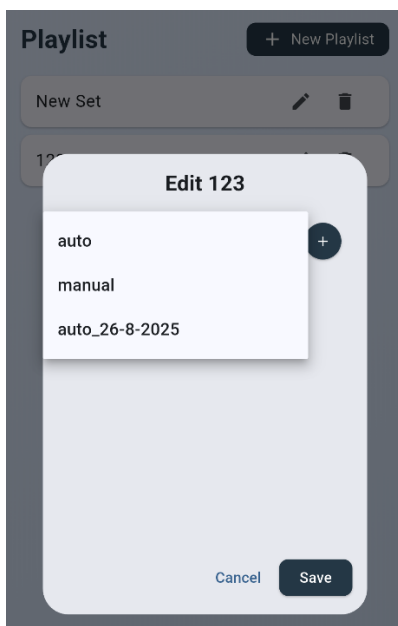
| **New Playlist:**
To create new playlist of program files.

Select Program from drop down menu.
Add selected file by clicking + button.

Drag up or down the files to change the order in playlist.

Save the playlist when done.

Test

Troubleshooting and testing.
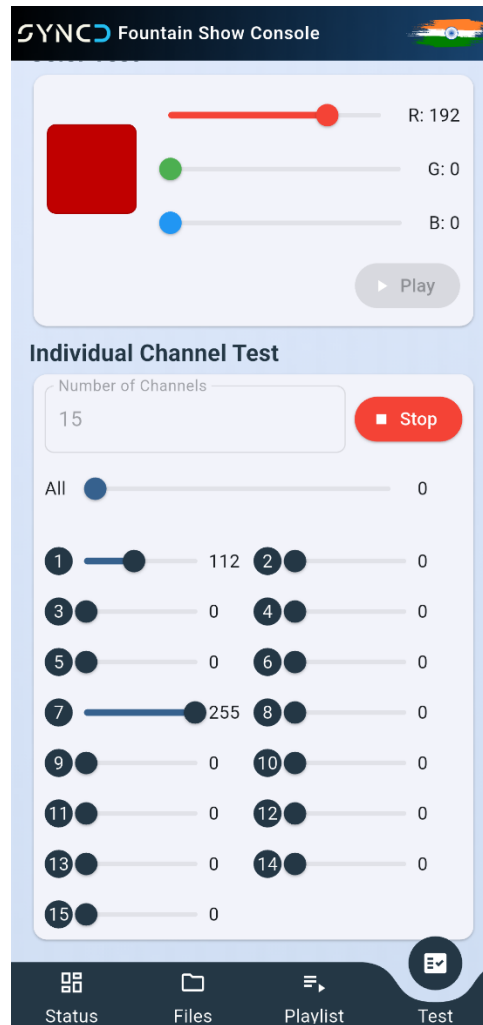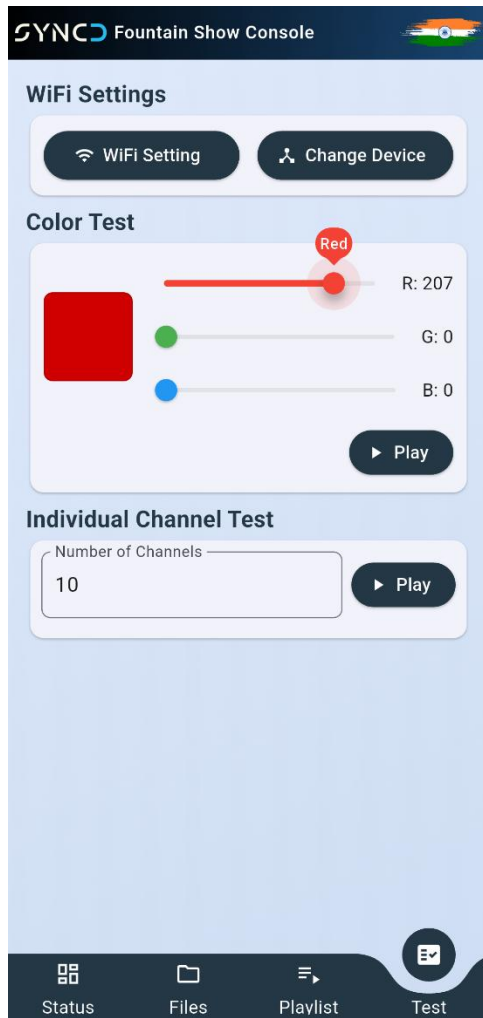
| **Color Test:**
(For lights load only.)
Test color patterns.
R – G – B : Slider for color mixing.
(0 – minimum,
255 – maximaum) brightness

Individual Channel Test:

| **No. of Channel:**
Set maximum no. of channels to perform test.

For switching the other devices from SyncD.

Manually set the SSID and password for this controller.
⚠️ Important: Keep your credentials safe. **If forgotten, the device cannot be connected.**

Setup – Through web page

Please follow the steps to connect SyncD device.
- Turn on the SyncD device.
- Turn on computer Wi-Fi and you may find **SyncD-FSC.**
- Connect **SyncD-FSC**. Password is: **SyncD-FSC**.

Open any browser application.
(Microsoft Edge / Chrome / Firefox)
Write: http://syncd.local/ or **http://192.168.4.1/**
and press Enter button. You may see the below screen.
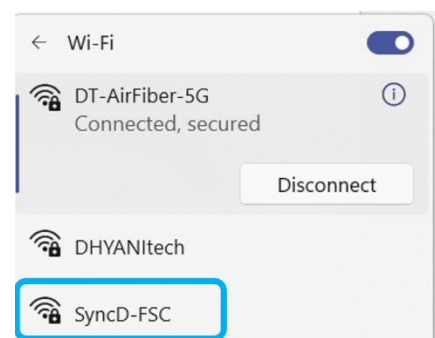
Status/control

File Manager

Playlist

Test

| Color Test:
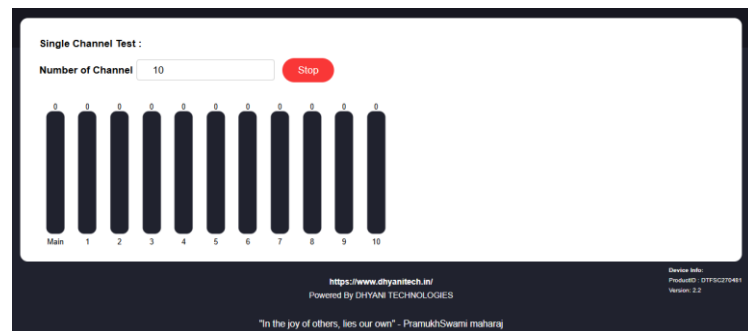(For lights load only.)
Test color patterns.
Use color picker for color selection.

Single Channel Test:
| No. of Channel:
Set maximum no. of channels to perform test.
Slide up-down fader sliders for testing dmx channels.

Application

- **Isolated 3 Channels 0-10V DC Output**: Can be used to control variable frequency drives (VFD) directly, offering precision and reliability in fountain motor control.
- **Analog Output 0-5V DC**: Capable of driving any 5V DC relay or solid-state relay (SSR), adding versatility to your control options.
- **Standard DMX512 Output**: Sends DMX512 signals to run DMX-controlled lights, pumps, laser lights, and other devices, ensuring seamless integration with existing DMX infrastructure.
- **Wireless Data Transmission**: Sends wireless data to a wireless SyncD monitor or repeater for lossless data transmission without wires, enhancing reliability and reducing cable clutter.
-

Application layout

Box contents

1 X Fountain Show Controller (Product ID: DTFSC3.0) (SKU: 10803)

* The details in this document may be updated, modified and subject to change.

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