Crystalfontz
CFA-10105 - Quick Start Guide

1. What You Need

- **CFA-10105**
- Your **OLED** display – either the transparent, the white, or the yellow
- **Seeeduino** board (3.3/5v switchable Arduino Clone – 3.3v is necessary)
- **USB cable** WR-USB-27
- **Jumper cables** such as WR-JMP-Y40 or WR-JMP-41
- Headers such as CFAPN01855
- Some **code**! You can use our demo code available on the product pages.

2. Quick Start

In this guide, we'll be showing how to bring up the transparent display in SPI. Connection information for other interfaces is available in the full datasheet for the CFA-10105 available on the product page.
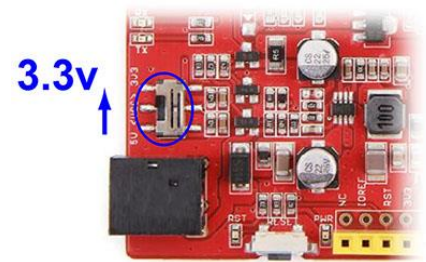
Step 1 - Ensure the voltage selection switch on the **Seeeduino** is set to 3v3. Using 5v can permanently damage your display.

Step 2 - Wire it up! Using the table below, connect the **CFA-10105** to the **Seeeduino** using the **headers** and **jumper cables**. All the jumpers on the board should be left open.

CFA-10105	Color	Arduino	Function
3.3V	Red	3V3	Power
GND	Black	GND	Ground
CS	Purple	D8	Chip Select
D/C	Brown	A0	Data/Command
RST	Grey	D9	Reset
D0	Green	D13	SCK, clock
D1	Blue	D11	MOSI, Data
D2, VEN, E, R/W	N/A	NC	Not connected
D3-D7	Not shown	Pull High	

Step 3 - Connect the **Seeeduino** to your computer using a **USB cable**, and load your code to the Seeeduino.

Step 4 - With power disconnected, insert the **OLED tail** with the shiny pins face up into the ZIF connector on the **CFA-10105**. Reapply power, and the demo will begin.

3. Further Information

See the Crystalfontz website for further information including full product datasheets and programming examples:

https://www.crystalfontz.com/product/cfal12864d0154mw-128x64-white-graphic-oled

https://www.crystalfontz.com/product/cfal12864d10154my-128x64-yellow-graphic-oled-ssd1309

https://www.crystalfontz.com/product/cfal12856a00151b-128x56-transparent-oled-screen

www.crystalfontz.com/product/CFA-10105

We're here to help! Reach out via our forum at forum.crystalfontz.com or email support@crystalfontz.com

We'd love to hear about your project! Tag us on Facebook, Instagram, LinkedIn, Twitter, or YouTube, or send us a link to your project on the web

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