

This page describes supported displays. Ucglib only supports color displays with internal controller and local display RAM. The setup for Ucglib depends on the internal controller, which is build into the color display.

Alternative names and descriptions for the pins:

Ucglib Pin Name	Description	Other Names
sclk	SPI clock signal	CLK, SCK
data	SPI data signal	DIN, SDI, MOSI
cd	Command / Data	D/C, DC, A0
cs	Chip select	CS
reset	Reset input	RESET, RES

ST7735

- Type: Color TFT
- Dimension: 128x160
- Color Depth: 18 Bit
- Interfaces: HW SPI, SW SPI
- Tutorial: [How to Connect a ST7735 Display](#)

Arduino Constructor

Constructor	Description
<code>Ucglib_ST7735_18x128x160_SWSPI</code> <code>ucg(sclk, data, cd, cs, [reset])</code>	Software SPI
<code>Ucglib_ST7735_18x128x160_HWSPI</code> <code>ucg(cd, cs, [reset])</code>	Hardware SPI

Device Procedures

- Controller Device: `ucg_dev_st7735_18x128x160`
- Extensions: `ucg_ext_st7735_18`, `ucg_ext_none`

ILI9341

- Type: Color TFT

- Dimension: 240x320
- Color Depth: 18 Bit
- Interfaces: HW SPI, SW SPI
- Tutorial: How to connect a ILI9341 display

Arduino Constructor

Constructor	Description
Ucglib_ILI9341_18x240x320_SWSPI ucg(sclk, data, cd, cs, [reset])	ILI9341 - SW SPI
Ucglib_ILI9341_18x240x320_HWSPI ucg(cd, cs, [reset])	ILI9341 - HW SPI

Device Procedures

- Controller Device: `ucg_dev_ili9341_18x240x320`
- Extensions: `ucg_ext_ili9341_18`, `ucg_ext_none`

ILI9163

- Type: Color TFT
- Dimension: 128x128
- Color Depth: 18 Bit
- Interfaces: HW SPI, SW SPI
- Tutorial: Not yet available

Arduino Constructor

Constructor	Description
Ucglib_ILI9163_128x128_SWSPI ucg(sclk, data, cd, cs, [reset])	ILI9163 - SW SPI
Ucglib_ILI9163_128x128_HWSPI ucg(cd, cs, [reset])	ILI9163 - HW SPI

Device Procedures

- Controller Device: `ucg_dev_ILI9163_18x128x160`
- Extensions: `ucg_ext_ILI9163_18`, `ucg_ext_none`

PCF8833

- Type: Color TFT
- Dimension: 132x132
- Color Depth: 16 Bit
- Interfaces: HW SPI, SW SPI
- Tutorial: How to connect a PCF8833 display

Arduino Constructor

Constructor	Description
<code>Ucglib_PCF8833_16x132x132_SW_SPI</code> <code>ucg(sclk, data,</code> <code>cd, cs, [reset])</code>	16x132x132 SW SPI
<code>Ucglib_PCF8833_16x132x132_HW_SPI</code> <code>ucg(cd, cs,</code> <code>[reset])</code>	16x132x132 HW SPI

Device Procedures

- Controller Device: `ucg_dev_pcf8833_16x132x132`
- Extensions: `ucg_ext_pcf8833_16`, `ucg_ext_none`

SSD1331

- Type: Color OLED
- Dimension: 96x64
- Color Depth: 16 Bit (Note: The interface uses 18 bit transfers, but the display only has 16 bit color depth)
- Interfaces: HW SPI, SW SPI
- Tutorial: n.a.

Arduino Constructor

Constructor	Description
Ucglib_SSD1331_18x36664rE_SWSPI	Software UNIVISION_SWSPI
ucg(sclk, data, cd, cs, [reset])	
Ucglib_SSD1331_18x3664rE_HWSPI	Hardware UNIVISION_HWSPI
ucg(cd, cs, [reset])	

SSD1351

- Type: Color OLED
- Dimension: 128x128
- Color Depth: 18 Bit
- Interfaces: HW SPI, SW SPI
- Tutorial: n.a.

Arduino Constructor

Constructor	Description
Ucglib_SSD1351_18x128x128_SWSPI	Software SWSPI
ucg(sclk, data, cd, cs, [reset])	GPIO set to 0 (ILSoft OLED)
Ucglib_SSD1351_18x128x128_HWSPI	Hardware HWSPI
ucg(cd, cs, [reset])	GPIO set to 0 (ILSoft OLED)
Ucglib_SSD1351_18x128x128_SPI_SWSPI	Software SPI, SWSPI
ucg(sclk, data, cd, cs, [reset])	GPIO set to 1 (Freetronics OLED)
Ucglib_SSD1351_18x128x128_SPI_HWSPI	Hardware SPI, HWSPI
ucg(cd, cs, [reset])	GPIO set to 1 (Freetronics OLED)

Device Procedures

- Controller Devices: `ucg_dev_ssd1351_18x128x128_ilsoft`, `ucg_dev_ssd1351_18x128x128_ft`
- Extensions: `ucg_ext_ssd1351_18`, `ucg_ext_none`

LD50T6160

- Type: Color OLED
- Dimension: 160x128
- Color Depth: 18 Bit
- Interfaces: 6 Bit parallel

Arduino Constructor

Constructor	Description
Ucglib_LD50T6160_18Bit6BitParallel	
ucg(d0, d1, d2, d3, d4, d5, wr, cd, [cs], [reset])	

Device Procedures

- Controller Device: `ucg_dev_ld50t6160_18x160x128_samsung`
- Extensions: `ucg_ext_ld50t6160_18`, `ucg_ext_none`

SEPS225

- Type: Color OLED
- Dimension: 96x64
- Color Depth: 16 Bit (Note: The display supports 18 bit, but the SPI interface of the controller only allows 16 bit color depth with byte transfers)
- Interfaces: HW SPI, SW SPI
- Tutorial: n.a.

Arduino Constructor

Constructor	Description
Ucglib_SEPS225_16x96x64_SPI	
ucg(sclk, data, cd, cs, [reset])	
Ucglib_SEPS225_16x96x64_SW_SPI	
ucg(cd, cs, [reset])	