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
Ucglib_ST7735_18x128x160_SWSPI ucg(`sclk`, `data`, `cd`, `cs`, `[reset]`)	18x128x160_SWSPI
Ucglib_ST7735_18x128x160_HWSPI ucg(`cd`, `cs`, `[reset]`)	18x128x160_HWSPI

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])	240x320 SW SPI
Ucglib_ILI9341_18x240x320_HWSPI ucg(cd, cs, [reset])	240x320 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_18x128x128_SWSPI ucg(sclk, data, cd, cs, [reset])	128x128 SW SPI
Ucglib_ILI9163_18x128x128_HWSPI ucg(cd, cs, [reset])	128x128 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
Ucglib_PCF8833_16x132x132_SWSPI ucg(`sclk`, `data`, `cd`, `cs`, `[reset]`)	Software SPI
Ucglib_PCF8833_16x132x132_HWSPI ucg(`cd`, `cs`, `[reset]`)	Hardware 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_18x96x64_UNIVISION_SWSPI ucg(sclk, data, cd, cs, [reset])	96x64, UNIVISION, SW SPI
Ucglib_SSD1331_18x96x64_UNIVISION_HWSPI ucg(cd, cs, [reset])	96x64, UNIVISION, HW SPI

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 ucg(sclk, data, cd, cs, [reset])	128x128, SW SPI, GPIO set to 0 (ILSoft OLED)
Ucglib_SSD1351_18x128x128_HWSPI ucg(cd, cs, [reset])	128x128, HW SPI, GPIO set to 0 (ILSoft OLED)
Ucglib_SSD1351_18x128x128_FT_SWSPI ucg(sclk, data, cd, cs, [reset])	128x128, SW SPI, GPIO set to 1 (Freetronics OLED)
Ucglib_SSD1351_18x128x128_FT_HWSPI ucg(cd, cs, [reset])	128x128, HW SPI, 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_18x160x128_6Bit ucg(`d0`, `d1`, `d2`, `d3`, `d4`, `d5`, `wr`, `cd`, `[cs]`, `[reset]`)	18 Bit 160x128 6 Bit parallel

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_UNIVISION_SWSPI ucg(`sclk`, `data`, `cd`, `cs`, `[reset]`)	16 Bit 96x64 Software SPI
Ucglib_SEPS225_16x128x128_UNIVISION_SWSPI ucg(`cd`, `cs`, `[reset]`)	16 Bit 128x128 Hardware SPI