Version 4.0.0.9

wiring for SD card added wiring foTFT touch added

Caution:-Both 3.3 Volt and 5 Volt devices are used.

3.3V wires are shown in Brown 5V wires are shown in Red.

When using JST connectors, there is no Brown wire, so use Red but be very careul to ensure correct connections.

Transparent three legged sensors must be fitted with the flat surface at the rear and the little dome pointing over the board and towards the laser. Connecting them incorrectly WILL destroy them.

Caution To avoid sensor damage, wire up the rx modules BEFORE plugging the transparent senors into them. Double check wiring BEFORE powering up the board & ensure LEDs light. Then de-power the board and insert sensors ENSURING the sensor is fitted the correct way round.

🖁 Node32s Optional wiring for TFT touch (Not shown routed to eSP32) 19/23/02/18 2 White Black Red Yellow Green Display Ave Ave-Reset LightMeter Menu LED Matrix Note:-

Encoder - (JST)

Red - 3.3V

Orange - Btn

White - S2

Yellow - S1

Black - GND

Optional

GY-302

module

(5V)

Light Sensor (JST)

Optional

(5V)

LED Matrix (JST)

(shown upside down)

Optional

Flash plug.

Outer - Black

Centre pin -Green

Notes on wiring Colours 3.3V are shown in Brown, and 5V are shown in Red, for clarity.

The photos of this Shutter Tester were built using Red wires for both 3V and 5V JST HX conneectors

The pre-made JST HX connectors do not contain Red or Orange wires,

The best option is to purchase additional Brown and Orange wires as specified in the parts document.

The alternate is to use Red for both 3.3 & 5V wires, but use EXTREME caution.

Blue can be used as an altenate to Orange,

DO NOT use the GND pin on the 4[0000 EPS32 board, that is located between pins 19 & 21. TET nine in order ECD33

TFT pins in order	ESP32	Wire Colour	
TFT_VDD	3V3	Red	
TFT_GND	GND	Black	
TFT_CS	5	White	Chip select
TFT_RST	4	Yellow	Reset pin
TFT_DC	16 (2)	Orange	Data Comman
TFT_MOSI	23	Green	
TFT_SCLK	18	Blue	
TFT_LED	3V3	Brown	
TFT_MISO		do no connect	
_			
Wiring below not required			
Touch_CCLK	18	Blue	
Touch_CS	2 (15)	White	
Touch_DIN	23	Green	MOSI
Touch_TFT_DO	19	Yellow	MISO
Touch IRQ		do not con	nect
Optional Sd Card conections for datalogger			
TFT	ESP32	Wire Colour	
CLK (SLK)	18	Blue	
SDI (MOSI)	23	Green	
SDO (MISO)	19	Yellow	
SCS (CS)	17	White	
,			

Mandatory (JST) 4" / 3.95" SPI TFT

Optional wiring

for SD card (Not shown routed to

17/19/23/18

eSP32)

ILI9488 Driver

480 X 320

Optional LCD - Depreciated.

Black GND

Red VCC (5V)

Orange SDA - 21

Yellow SCL - 22

Connections to iic on rear of LCD