# 24VDC 150W DMX512 Constant Voltage LED Driver

**Model**: LW-24150-4C-ADJ

ledworldlighting.com | ledworld.ca
1-800-387-4081

24V DC Output | cULus LISTED | FC | 6 Years Limited Manufacturer Warranty | 150 Watts | 4 x 1.56 Amps

## PRECAUTIONS BEFORE INSTALLING

- Read all instructions before installation. To be sold with instructions.
- Only qualified personnel should install the unit.
- Installation must comply with the National Electrical Code (Article 450) and Canadian Electrical Code.
- Ensure the unit has the proper input/output voltage and output wattage for your application.
- Check the wire markings to ensure they match the wiring diagram on this installation guide.
- Turn off power at breaker before driver installation.

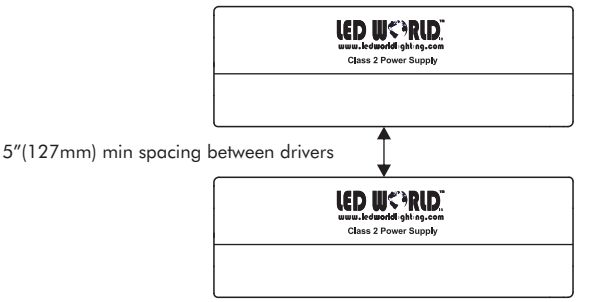
## INSTALLATION GUIDELINES

- The driver must be installed in a well-ventilated area free from explosives gases and vapors. Proper operation requires for free flow of air. Do not install inside a cabinet smaller than 12 W x 12 H x 15 L inches. If you are installing multiple drivers, keep a minimum space of 5" (127mm) between each driver. For Indoor or Outdoor use.
- Operate only within specified ambient temperature range of 4°F (-20°C) to 104°F (40°C). Operating at cooler surrounding air temperature will extend driver life.
- Do not overload.
- Route and secure wires so they will not be pinched or damaged.
- All wiring must be in accordance with NEC/CEC, low voltage Class 2 circuit. For wire runs inside of walls, use properly certified CL2 or better cabling and appropriate mounting hardware. If you are unclear as to how to install and wire this product, contact a qualified licensed electrician. Failure to install this device properly may result in electrical shock or fire.
- Do not install Class 2 low voltage wiring in the same run(s) as AC main power.

## MOUNTING

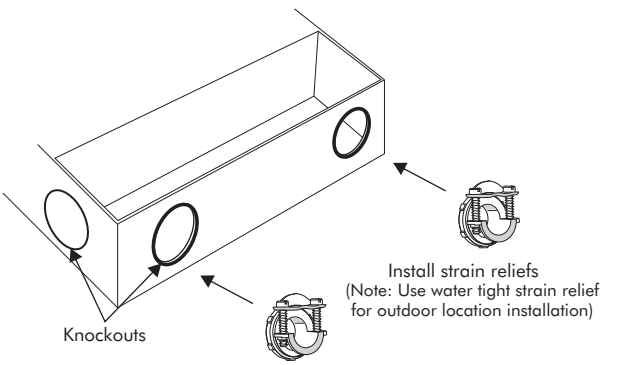
Select a suitable location capable of supporting the weight of the Driver. Use the four keyholes on the transformer case. Screw cover closed. Mount the unit at a height greater than 1ft (30cm) from the ground.

If used outdoors, the knockouts must point downward




## INPUT CONNECTIONS / GROUNDING

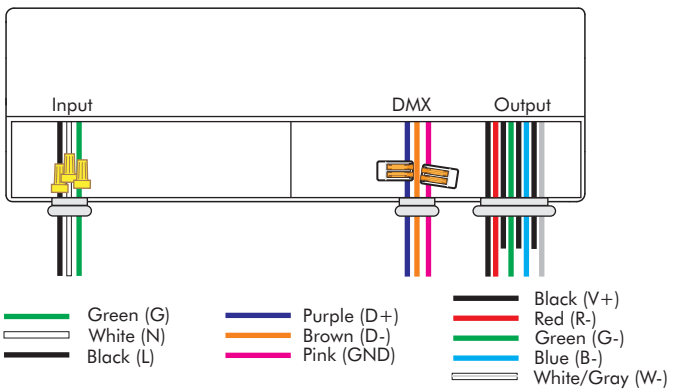
- Remove the wiring cover (2 screws). Remove the wiring compartment knockout and install strain reliefs (not included). With power turned off at the breaker, route the input wires. Connect one wire to black(L) and one wire to white(N) to the corresponding pigtail wire.
- For all wire connections use only UL/CSA listed wire nuts or wago connectors of suitable size and type.
- The Driver case MUST be grounded in accordance with the NEC/CEC. Connect the ground wire to the driver green wire.
- Use 3/8" (1/2" KO) cable connectors (not included) to secure wire.
- If used outdoor, must have knockouts point downwards. Use only outdoor rated UL/CSA listed strain relief (water tight).
- Maximum of 12AWG through branch circuit conductor suitable for 105°C (221°F) permitted in box.




## OUTPUT CONNECTIONS (LOW VOLTAGE)

- Connect the wires of the light fixture to the driver wires - positive to the black(+) wire and negative to respective (-) wire.
- Measure the output voltage for proper voltage to LED fixture.
- After all wiring completion, screw in wiring cover.

Use appropriate UL/CSA listed
wire nuts or wago connectors (not included) to connect wires



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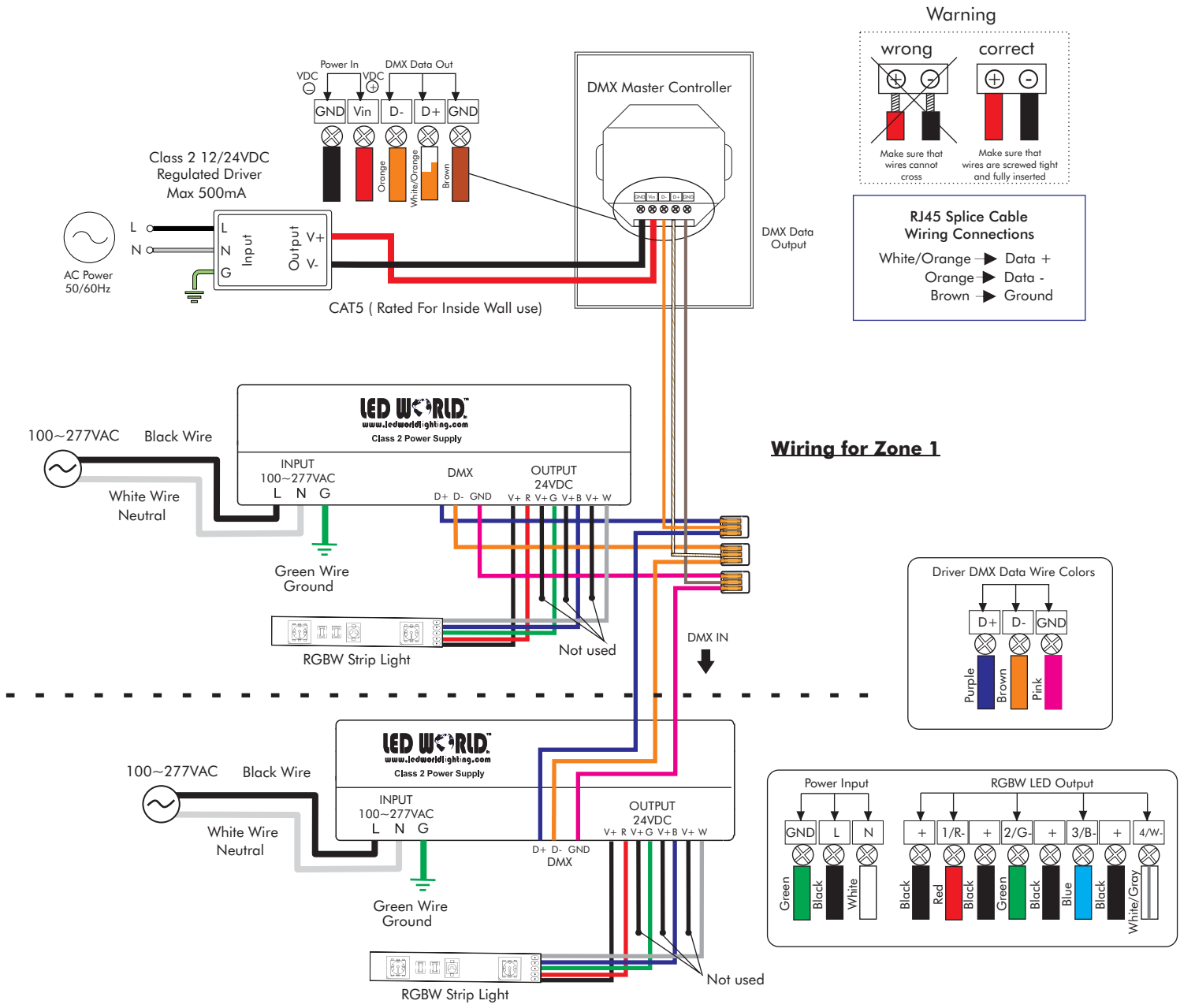
## CONNECTION DIAGRAM

The following wiring diagram is as an example system connectivity. CAT5 (RJ45 connections) cables are the most effective solution for transmitting DMX-512 signals. XLR-3 cables may also be installed but require an additional adapter for connecting to DMX Driver.







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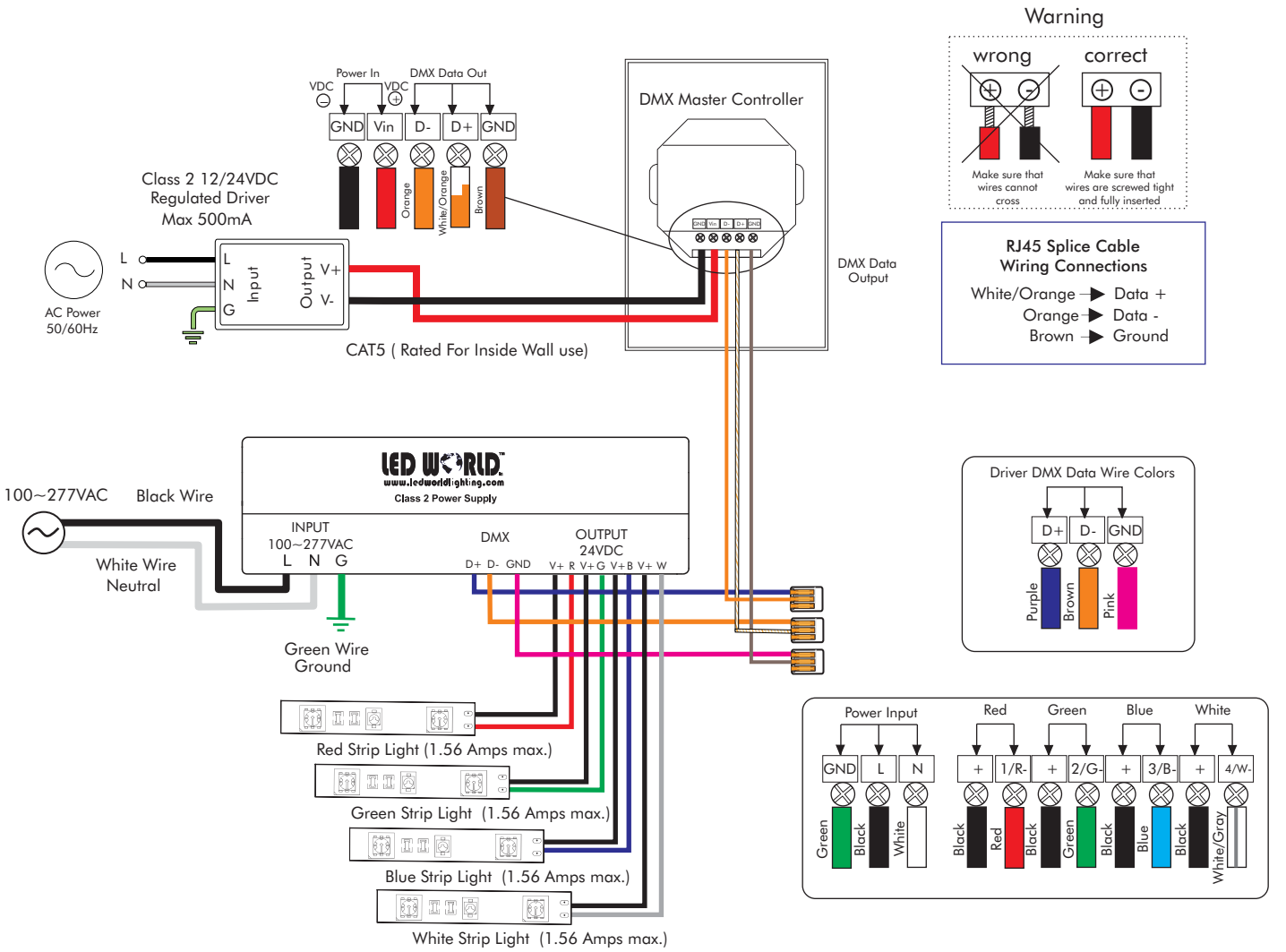
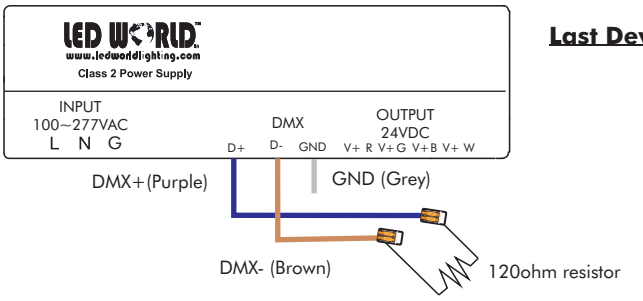
## Wiring for Single Color Strips




**NOTE:** Do not use more than 32 DMX drivers continuous. If used it will require a DMX splitter to properly split and repeat the DMX signal to additional groups of devices.
At the last device in a Daisy chain, a DMX Terminating resistor (120 ohms) must be added between DMX D+ and D- wire unless the device auto-terminates.




**Last Device**

## WARNING

- Prevent reverse polarity.
- The LED Driver is not to be repaired. Do not use if it is damaged or defective.
- Installation involves special wiring methods to run wiring through a building structure. Consult a qualified licensed electrician.

This device complies with FCC 47 CFR Part 15, Part B. Operation is subject to the following two conditions: (1)May not cause harmful interference, 2)Must accept any interference received, including interference that may cause undesired operation.



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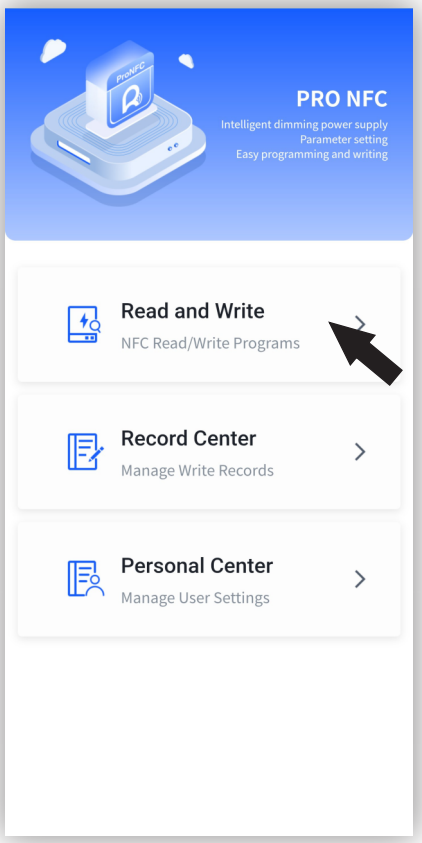
## DOWNLOAD THE APP

Scan the QR code below to download NFC app. Scan the QR code for your phone's operating system.

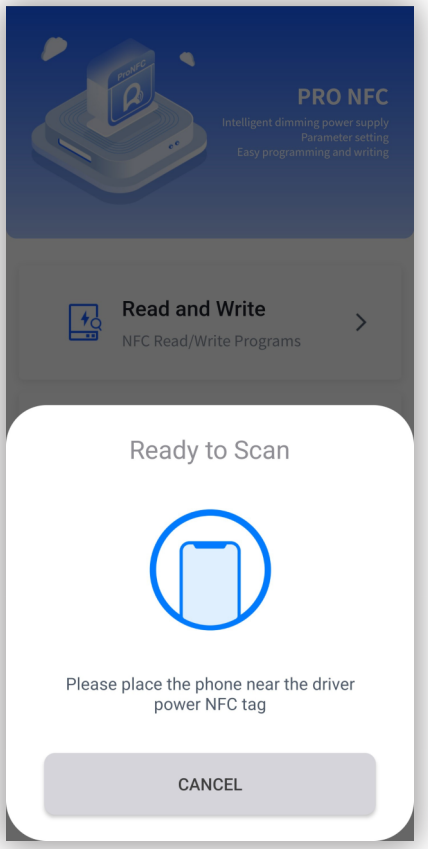
iOS

Android

## ADDRESS WRITING




Select Read and Write option




Ready to Scan notification will pop up when the app is ready to write address on the Driver.

Bring your phone very close to NFC tag, which is located on the other side driver wiring compartment. Look for NFC sign shown below.



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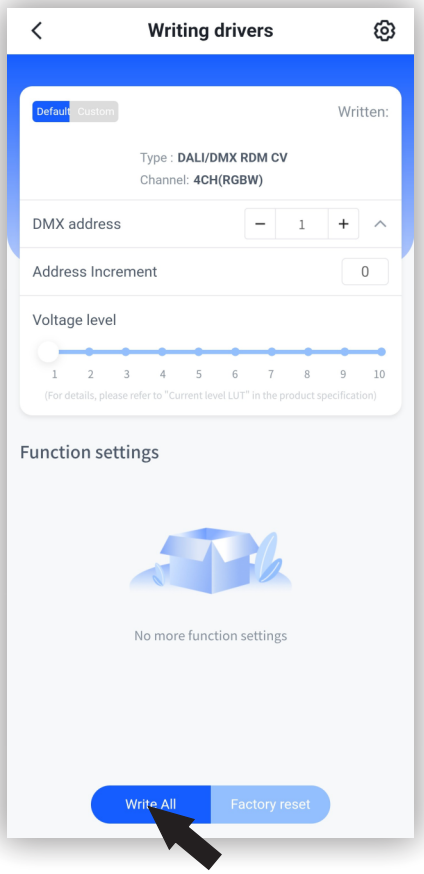
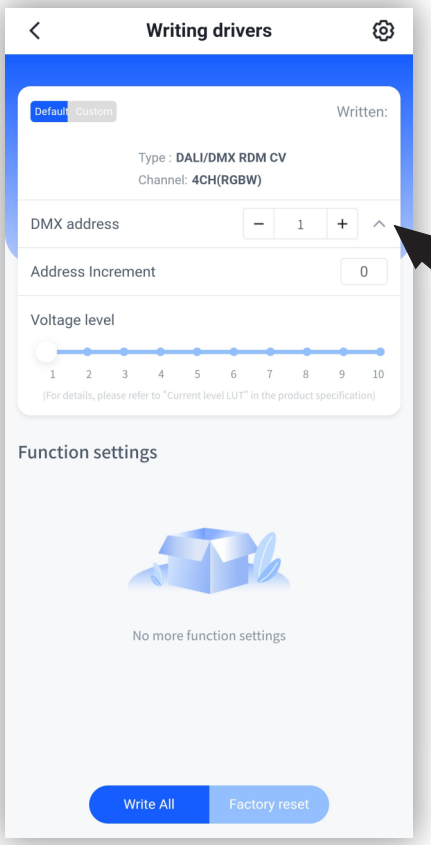
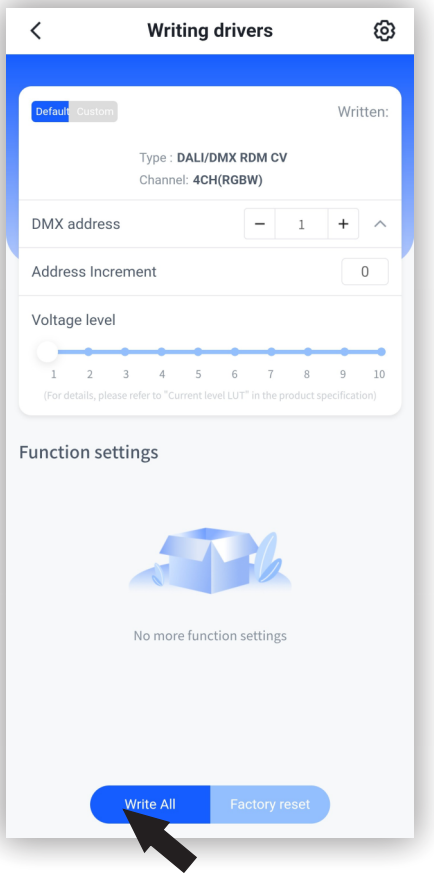



Write screen with default options for only 1 zone




Set the DMX Address increment based on your zones. E.g. RGBW Set to 5 for Zone 2




Select Write All when ready to write DMX address and follow instructions on the screen





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