

MilKris' CMWS for the DCS AH-64D Apache



DISCLAIMER: I'm not a professional maker! It's not perfect, but it works and I'm fine with the result. Here and there, some filing, drilling, and gluing might be necessary...

This is my **CMWS (Common Missile Warning System) Control Panel** build for the DCS AH-64D Apache.

The panel is driven by an **Arduino Mega** and a **1.3" OLED display**. The Mega is required because the Uno simply doesn't have enough RAM to run my code reliably - save yourself the headache and go straight to the Mega.

The **Threat Sector Index** is implemented with discrete LEDs for proper "something wants to kill you from that direction" vibes.

Total cost: ~50€ depending on what you already have in your parts bin.

Difficulty: Medium - you should know how to flash code to an Arduino using the Arduino IDE. If you're not there yet, go watch the excellent tutorials from Hornets Nest first - they walk through the whole workflow step by step.

If that still feels too fiddly, feel free to contact me on [Reddit](#) - I can offer a pre-flashed Arduino as an alternative.

As with my other projects, I've included **extra STL files for builders without a laser engraver**, so you can simply 3D-print the labels instead.

There is also an **alternate Threat Sector Index version with a hole mask**. It's not quite as pretty as the laser-engraved version, but it absolutely does the job.

If you'd prefer a proper laser-engraved Threat Sector Index, I can send you one - just contact me on [Reddit](#).

This guide is intentionally kept short. There's not much magic here beyond the pin mapping and wiring. If you want to see the full process, just check out the [timelapse build video](#)

PSA from Command:



If this thing blew your mind and made your simpit jealous, maybe drop a little “thanks” in the jar. Projects like this don’t grow on trees; they’re handcrafted in basements powered by caffeine, copium, and pure autism.

https://www.paypal.com/donate/?hosted_button_id=XG6RA9RWPM84Y

I'm looking forward to your [feedback](#) — and of course, feel free to share pictures of your own TEDAC!

Yours,
MilKris

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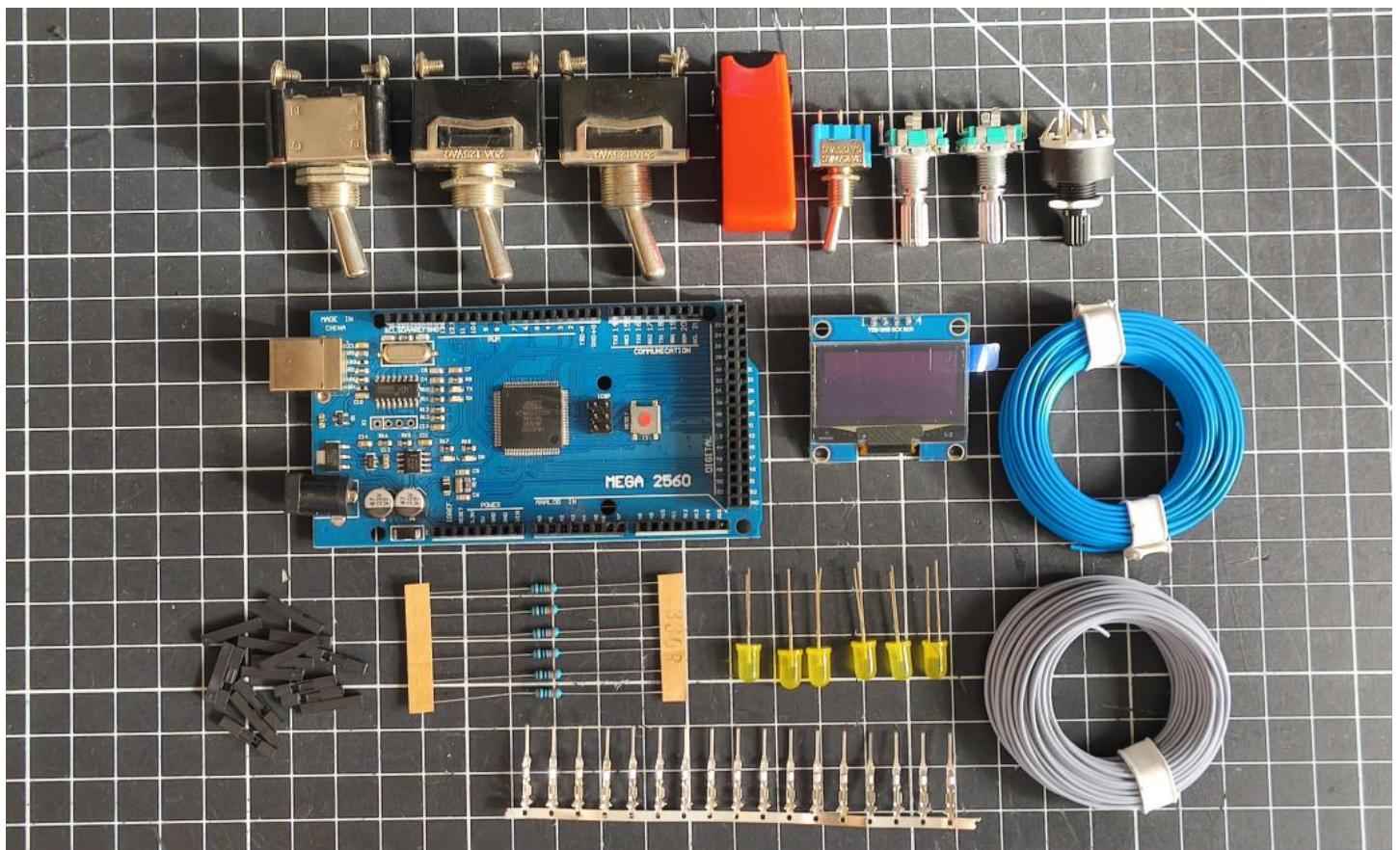
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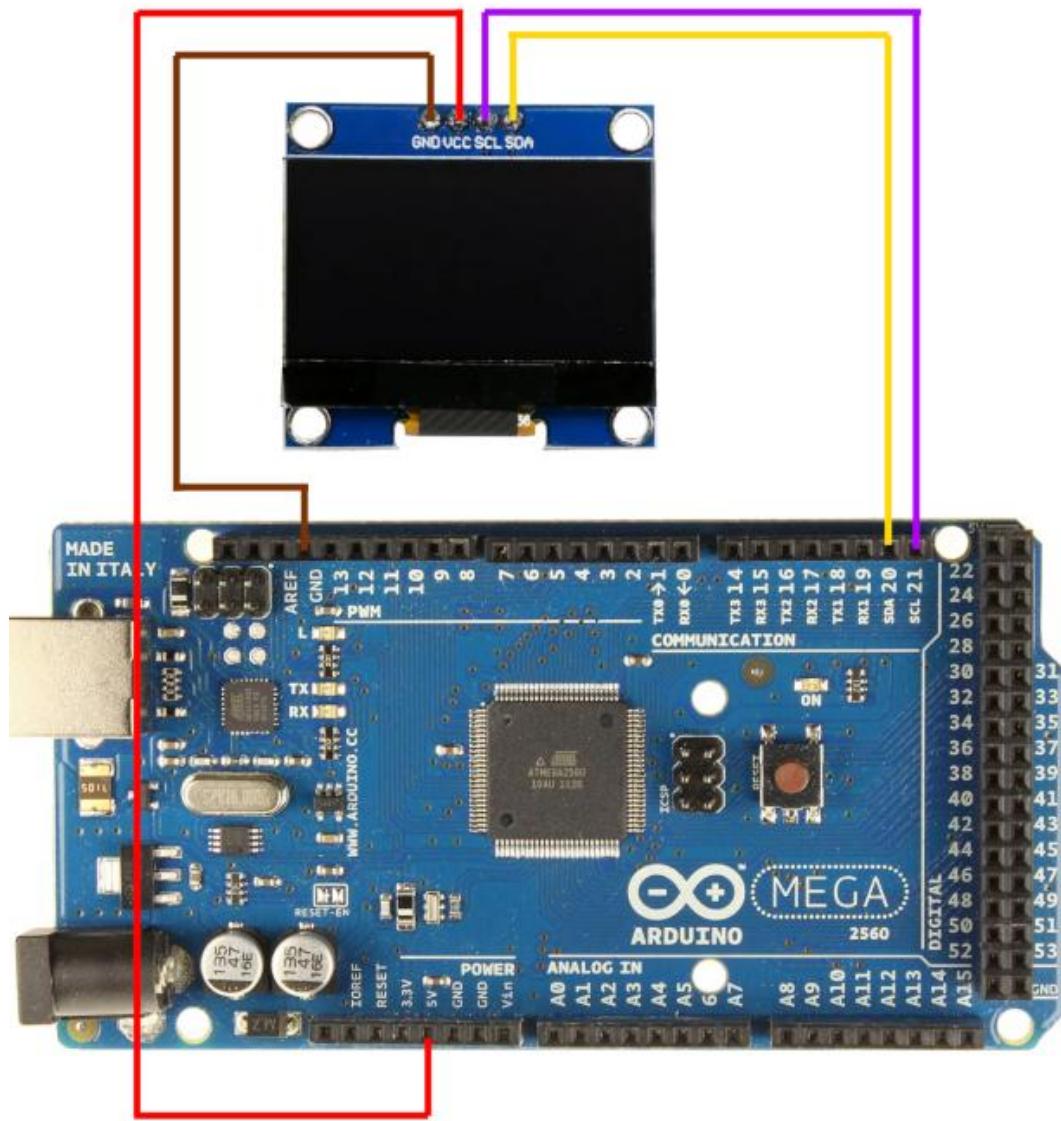
Additional Apache projects such as the TEDAC, KDU, MPDs, IHADSS, EUFD and others are available on my [GitHub](#).

Part list:



- 1x Arduino Mega 2560
- 1x 1.3" OLED Display 128×64 (SH1106, I2C)
- 6x 5 mm yellow LEDs
- 6x 330 Ω resistors
- 2x 360° rotary encoder (EC11 type)
- 3x 12 mm ON-OFF toggle switch (one with red safety cover)
- 1x 6 mm ON-OFF toggle switch
- 1x 16 mm rotary switch, 2-pole, 3-position
- 9x wood screws 2×6 mm
- 6x heat-set inserts M3×4×4.5 mm
- 15x M3 screws (length 5–12 mm depending on part thickness)
- 2.54 mm Dupont connectors (female)
- AWG26 wire ($\approx 0.14 \text{ mm}^2$)
- 1x piece of green transparent acrylic glass — 56×31×3 mm

PIN Layout:



DISPLAY (I2C)

20 SDA

21 SCL

LED OUTPUTS

22 CMWS R BRT

23 CMWS D BRT

24 FWD RIGHT

25 AFT RIGHT

26 AFT LEFT

27 FWD LEFT

SWITCHES (2-POS → GND)

30 ARM

31 BYPASS

32 JETT

33 MODE

SWITCH (3-POS)

34 PWR A

35 PWR B

ROTARY ENCODER

36 LAMP A

37 LAMP B

38 VOL A

39 VOL B