

# ICARUS CHECKLIST



## System Description:

The ICARUS Smart View Limiting Device is a simple effective tool that brings simulator control to the cockpit for scenario-based weather training.

The device consists of three pieces, the visor, power control unit (PCU), and the app. The visor is made of Polymer Dispersed Liquid Crystal (PDLC) film in a carbon fiber frame. The PDLC film can vary its transparency by aligning crystals with electric current, allowing ICARUS to simulate different visibility levels. The film is made up of 5 different layers with the crystals in the middle and is susceptible to delamination, so handle the visor by the frame or mount and do not press on its edges.

The PCU provides electrical power to adjust the visor. It has three lights indicators; green is power on, red is charging, and blue is Bluetooth. It has two buttons a red power button on the top and a black button for manual control. Lastly it has two ports, a 3.5mm cable jack to send power to the visor and a USB jack for charging. The battery will power the device clear for over 6 hours and

The iOS and Android app allow safety, instructor, or check pilots to control the scenario and accomplish the training objective. It is simple with two screens the ICARUS screen allows for the selection of the visibility condition and the setting page allows for the adjustment of the transition time, visibility levels, and the pairing with the PCU.

## WARNING

**All ICARUS training must be done with a qualified Safety, Instructor, or Check pilot that must treat the pilot using ICARUS as view limited at all times, regardless of visibility level and Guard the Controls appropriately whenever the visor is worn .**

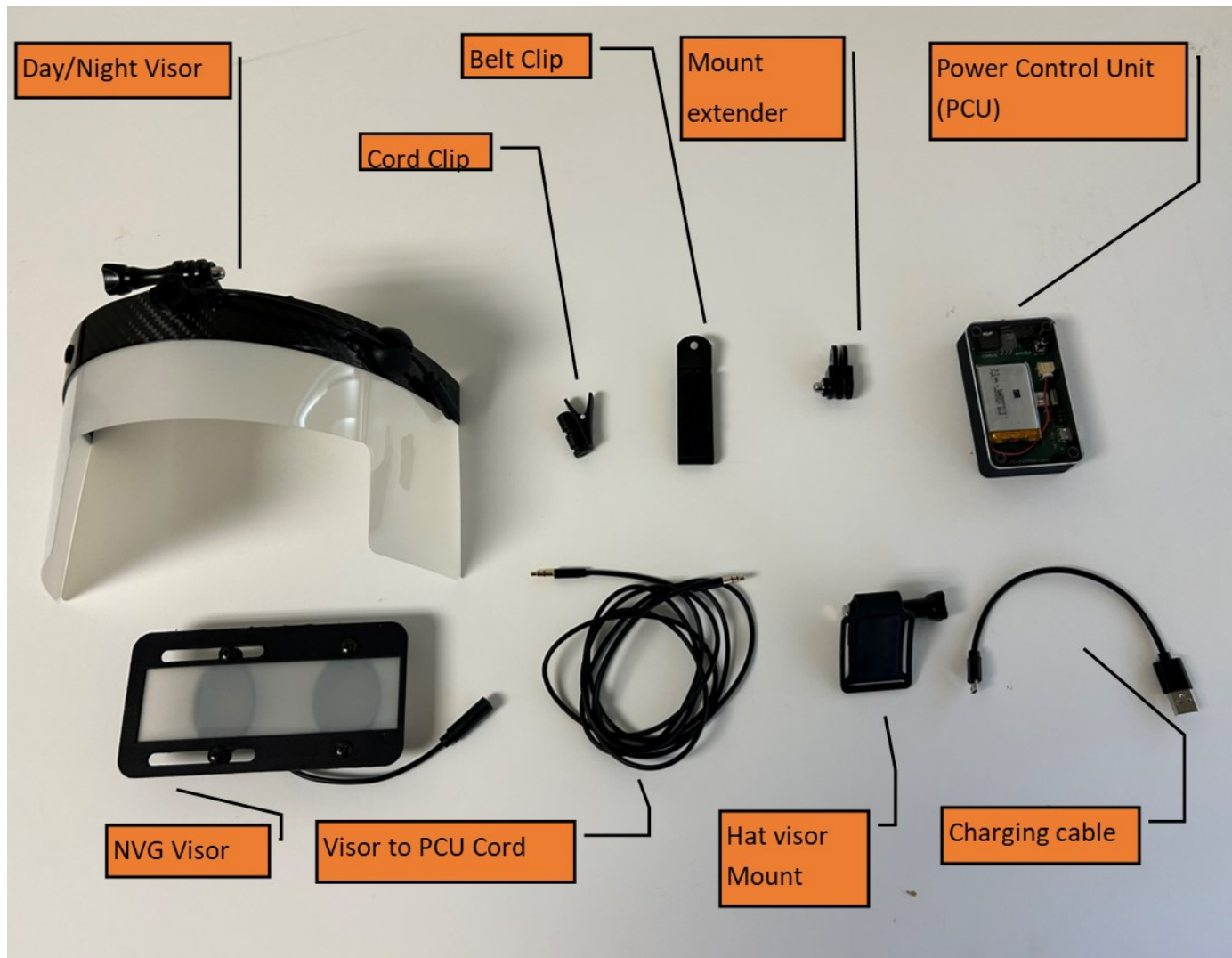
## CAUTION

**The visor is made of Polymer Dispersed Liquid Crystal Film and is susceptible to delamination if bent or folded.**

- **Handle the visor by either the Carbon Fiber frame or mount**
- **Set the visor down on the frame, not the film**
- **Ensure the visor is fully seated in the case before closing**

## NOTES

- **The Power Control Unit (PCU) battery life is ~ 6 hours at full clear**
  - **The PCU can be charged in flight.**
  - **Familiarize yourself before the first flight!**



- **The Cord Clip helps route the cord. The collar is a good place for it**
- **The Belt clip enables you to clip the PCU to the seat belt**
- **The Mount Extender works with the NVG mount for different helmets**
- **The Visor to PCU Cord is a 6ft 3.5mm Audio Cable**

# Trouble Shooting

**If the visor does not change or go clear**

- **Check power cord, make sure it is fully seated in the jacks**
- **Try using the black manual button**
- **Check the battery level at the bottom of the visibility selection page**

**If the PCU does not pair**

- **Check your devices Bluetooth settings**
- **Put the PCU into pairing mode by holding down the black button while using the red button to turn the PCU on. The green light should flash**
- **Try another tablet or phone**

# The App




**ICARUS**  
IFR/VFR Pilot Training

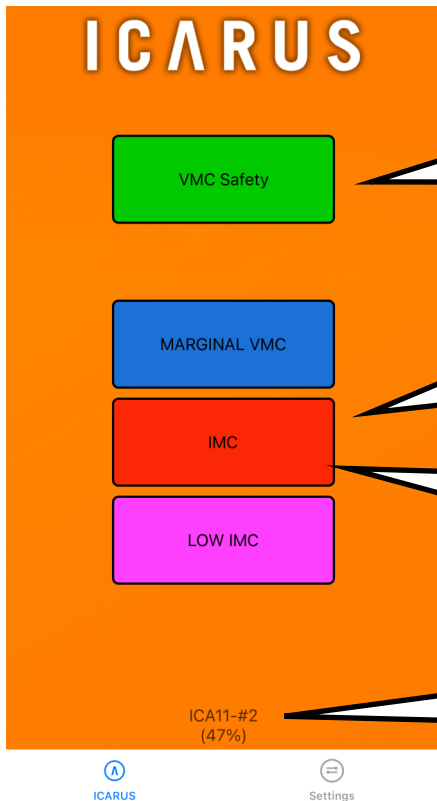
Open

2 RATINGS  
**5.0**  
★★★★★

AGE  
**4+**  
Years Old

CATEGORY  
  
Utilities

The ICARUS App is available for iOS on the app store. If you'd like it for your Android device please reach out via the contact page on our website.

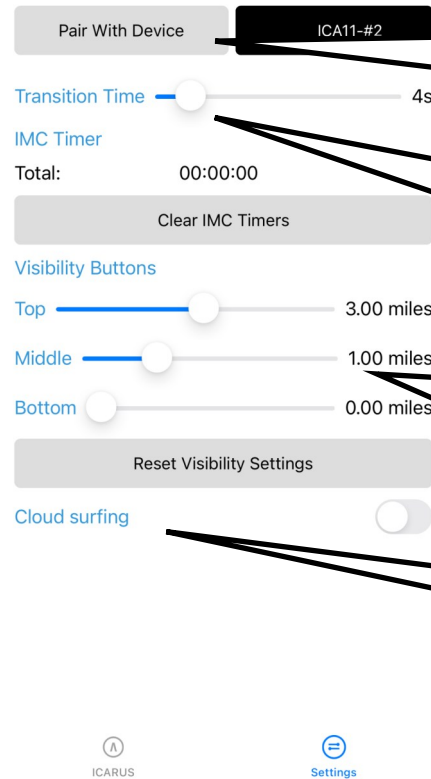


**VMC Safety Button is not adjustable and instantly goes**

**Three Visibility Buttons are adjustable and default to Mar-**

**The Buttons will change according to the transi-**

**Approximate Battery voltage is listed here. Below**



**To Pair the PCU go to pair with device. Process can take up to a minute.**

**Set the transition time here, up to 20 Minutes. Below is the IMC timer.**

**Adjust the visibility levels here. The Buttons will change color/condition accordingly**

**Cloud surfing will gradually change between VMC and**