

**EDIT FIELDS MENU**  
Highlighted in Black.  
7 editable fields per page,  
29 possible values<sup>2</sup>



**Battery State**



Push left button 1x  
**EDIT FIELDS**  
**SEL FIELD**

### PUSH-SET Menu:

Push to cycle through options and rotate to change option  
Close by cycling to end, pressing left button, or waiting 30 seconds

### Options:

- **SET BARO**
- **DG ADJ**
- **HDG BUG** Hold button down to align with current heading
- **OBS** (with AV-HSI only)
- **SRC SEL** (with AV-HSI only)
- **SET ALT** (with Autopilot or SALT overlay only)
- **SET VS** (with Autopilot only)
- **AUTOPILOT** (with Autopilot only)
- **SQUAWK** (with tailBeaconX only)

### Change Modes:

If Function unlocked, long hold button to change to DG mode.

### Select Current Page

Three Customizable Pages 1:3, 2:3, 3:3, AI  
AI - Decluttered Attitude Indicator/Transponder Control  
Push **RIGHT** button to change page  
Hold **RIGHT** button for brightness setting

### SETUP MENU

- UI Style
- UI Font
- G Max/Min Reset
- Wireless GPS
- Course Deviation
- Glideslope
- Alert Volume
- AoA Alert Enable
- AoA Alert Thresholds<sup>1</sup>
- G Alert Enable
- G Alert Thresholds
- Roll Alert Enable
- Roll Alert Thresholds
- Turn Coordinator Mode<sup>3</sup>
- Min/Max Voltage
- GPS Track Stabilization
- HOURS

<sup>1</sup> AoA limits will be grayed out unless rotary knob is pushed while applying power.

Push left button 2x  
**SETUP**  
**ROT TO SEL**



### Basic Data

- Blank
- DG Heading
- IAS
- Altitude
- Baro Set
- AoA
- Vertical Speed
- G Load, G Min, G Max
- Bus Volts
- Set Altitude<sup>4</sup>

### If Temp Probe

- OAT, TAS, DALT

### If GPS Connected

- Waypoint ID
- Distance To
- Ground Speed
- Track
- XTE
- DTRK
- Bearing To
- Climb Rate (ft/nm)

### If AV-HSI Connected

- Nav Mode
- OBS

### If Autopilot Connected

- Autopilot Mode

### If BeaconX connected

- Squawk

### If AV-Link+Sentry connected

- CO - Carbon Monoxide

### If Temp Probe + AV-MAG + GPS

- Wind Vector
- Wind Components

<sup>2</sup> Not all values can be placed in every field (IAS, Altitude and Baro Setting only allowed in certain fields). Some values are implemented with graphical indicators, other with textual fields.

<sup>3</sup> Standard Rate Bank Angle indicator requires temp probe.

<sup>4</sup> Double beep and flash when crossing 200ft from set altitude. Solid color change when within 100 ft of set altitude

# AV-30 Quick Reference Card

## Directional Gyro Mode

**EDIT FIELDS MENU**  
Highlighted In Black.  
7 editable fields per page,  
28 possible values<sup>1</sup>



**Battery State**

### Available Pages:

**Pages:**  
 DG Rose  
 GPS Rose  
 DG HSI  
 GPS HSI  
 DG Arc  
 GPS Arc

### Select Current Page

Three Customizable Pages 1:3, 2:3, 3:3, AI  
 AI - Decluttered Attitude Indicator/Transponder Control  
 Push RIGHT button to change page  
 Hold RIGHT button for brightness setting

### PUSH-SET Menu:

Push to cycle through options and rotate to change option  
Close by cycling to end, pressing left button, or waiting 30 seconds

### Options:

- **DG ADJ**
- **HDG BUG** Hold button down to align with current heading
- **SET BARO** (with ALT or BARO overlay only)
- **OBS** (with AV-HSI only)
- **SRC SEL** (with AV-HSI only)
- **SET ALT** (with Autopilot or SALT overlay only)
- **SET VS** (with Autopilot only)
- **AUTOPILOT** (with Autopilot only)
- **SQUAWK** (with tailBeaconX only)

### Change Modes:

If Function unlocked, long hold button to change to MFD (if enabled), CDI (if enabled) or AI mode.



Push left button 1x  
**EDIT FIELDS**  
**SEL FIELD**

### Basic Data

- Blank
- DG Heading
- Altitude
- Baro Set
- AoA
- Vertical Speed
- G Load, G Min, G Max
- Bus Volts
- Set Altitude

### If Temp Probe

- OAT, TAS, DALT

### If GPS Connected

- Waypoint ID
- Distance To
- Ground Speed
- Track
- XTE
- DTRK
- Bearing To
- Climb Rate (ft/nm)

### If AV-HSI Connected

- OBS
- Nav Mode

### If Autopilot Connected

- Autopilot Mode

### If BeaconX connected

- Squawk

### If AV-Link+Sentry connected

- CO - Carbon Monoxide

### If Temp Probe + AV-MAG + GPS

- Wind Vector
- Wind Components<sup>2</sup>

<sup>1</sup> Not all values can be placed in every field (Altitude and Baro Setting only allowed in certain fields). Some values are implemented with graphical indicators, other with textual fields.

<sup>2</sup> Interpreting wind:  
Up arrow = tailwind  
Arrow pointing left = wind pushing on left of aircraft

### SETUP MENU

UI Style  
 UI Font  
 G Max/Min Reset  
 Wireless GPS  
 Course Deviation (ARC page)  
 Glideslope (ARC page)  
 Min/Max Voltage  
 GPS Track Stabilization  
 HOURS



Push left button 2x  
**SETUP**  
**ROT TO SEL**

# AV-30 Quick Reference Card

## Transponder Control Display State

### Field Values Displayed

**SQWK**  
Squawk code

**NIC**  
NIC encoding is used to indicate the radius of containment around the aircraft. 91.227 requires a minimum NIC of 7.

**PALT**  
Pressure altitude  
Flashing green indicates interrogation



### N Number

N number will be displayed correctly once the setup of the BeaconX transponder has been completed.

### MODE

ALT – altitude  
STBY – standby  
ON – on

### NACp

This indicates the accuracy of the aircraft position being transmitted. 91.227 requires a minimum NACp of 8.

### STAT

Status of transponder

### TESTING

- Set transponder mode to STBY
- Option 1
  - Go to the tailBeaconX and connect using the tailBeacon app.
  - When app opens, go to the bottom of page and push “GND TEST MODE”
- Option 2
  - Go to the AV-30 Install Menu
  - Select BEACONX GTM then push “ENABLE”
- Now set the AV-30 to ALT.
- tailBeaconX will now respond to all calls from transponder test sets.

### Squawk Set Mode



**IDENT**  
When identifying, PALT will display IDT

**Current Page Selector**  
Push to return to AI, DG, MFD or CDI screen

### VFR/MODE

Press to quick-set SQUAWK to VFR.

Press and hold for transponder mode control followed by press and release to change mode.

Push to enter SQUAWK mode • Rotate to change value • Push to advance and accept

### Flight ID Mode



While in the SQUAWK setting menu, push and hold to switch to FLIGHT ID entry mode.



# AV-30 Quick Reference Card

## MFD (Traffic Display)

### Traffic Status

- **NO DATA** – AV-Link not connected/not functional
- **NO GPS SRC** – ADS-B In unit not sending GPS data, AV-30 has no configured GPS source, and no ownship traffic target found
- **NO GPS FIX** – No GPS source reports valid coordinates
- **NO ADSB IN** – No ADS-B source available
- **NO ALTITUDE** – No source reports valid altitude
- **NO GPS HDG** – No source reports valid heading

### Scale

0.33 TO 40 NM  
Rotate center knob to zoom

### FILTER

- **NORMAL** – Filter ownship, traffic above and below 2700 feet relative to ownship.
- **ABOVE** – Filter ownship, traffic above 8700 feet and below 2700 feet relative to ownship.
- **BELOW** – Filter ownship, traffic above 2700 feet and below 8700 feet relative to ownship.
- **ONLY OWN** – Filter only ownship.
- **NONE** – Displays all traffic and ownship.



Track Bug

Bearing to GPS waypoint

Select  
**1:1 OR AI**  
For tailBeaconX

Distance, altitude, and  
airspeed of target

Callsign or Flight Identifier

Target type



Highlighted tracked target  
Direction of Flight,  
Relative Altitude\*, and  
Ascent Indicator

\*Pitot and static must be  
connected to display  
proper relative altitude.



Flight Plan  
**TRAFFIC** – Optional  
GPS Flight Plan  
Overlay

**OWNSHIP ICAO**  
Enter ICAO number  
Rotate knob to  
change value, press  
knob to advance  
cursor



**GPS track**  
Heading and position  
will be established by  
the first available out of  
the following GPS  
sources:  
Wi-Fi ADS-B In Unit  
AV-30 Connected GPS  
Ownship Traffic Target

**VSI**  
Optional  
Vertical Speed  
Overlay

# AV-30 Quick Reference Card

## Course Deviation Indicator Mode

**EDIT FIELDS MENU**  
Highlighted In Black.  
6 editable fields per page,  
25 possible values



Available Only  
with AV-HSI

Magenta – GPS  
Green - VLOC

Battery  
State

Select Current Page

Three Customizable Pages 1:2, 2:2, AI

AI - Decluttered Attitude Indicator/Transponder Control

Push RIGHT button to change page

Hold RIGHT button for brightness setting



Push left button 1x  
**EDIT FIELDS**  
**SEL FIELD**

### PUSH-SET Menu:

Push to cycle through options and rotate to change option  
Close by cycling to end, pressing left button, or waiting 30 seconds

### Options:

- **OBS** (with AV-HSI only)
- **SRC SEL** (with AV-HSI only)
- **SET ALT** (when an overlay)
- **SQUAWK** (with BeaconX)

### Change Modes:

Long hold button changes mode to AI.

### SETUP MENU

UI Style  
UI Font  
G Min/Max Reset  
Wireless GPS  
Min/Max Voltage  
GPS Track Stabilization  
HOURS



Push left button 2x  
**SETUP**  
**ROT TO SEL**

### Basic Data

- Blank
- DG Heading
- Vertical Speed
- G Load, G Min, G Max
- Bus Volts
- Set Altitude

### If Temp Probe

- OAT, TAS, DALT

### If GPS Connected

- Waypoint ID
- Distance To
- Ground Speed
- Track
- XTE
- DTRK
- Bearing To
- Climb Rate (ft/nm)

### If AV-HSI Connected

- OBS
- Nav Mode

### If Autopilot Connected

- Autopilot Mode

### If BeaconX connected

- Squawk

### If AV-Link+Sentry connected

- CO – Carbon Monoxide

### If Temp Probe + AV-MAG + GPS

- Wind Vector
- Wind Components

### ALERTS



### FLAGS



**G LIMIT**

G-Load Exceeds Set Limit

**G LIMIT**

G-Load Exceeds 80% of Set Limit

**ANGLE**

AoA Exceeds Set Limit

**ANGLE**

AoA Exceeds 80% of Set Limit

**ROLL**

Roll Exceeds Set Limit

**C MONOXIDE**

Carbon Monoxide Exceeds 200ppm  
\*Requires AV-Link + Sentry

**CHK ATTITUDE**

Attitude Mismatch Between Multiple AV-30  
\* Requires AV-HSI

**DEMO**

AV-30 is in Demo Mode. Do not Fly

**ALIGN**

Gyro is aligning, do not move aircraft

**NO AP**

AV-30 is configured to use AV-APA, but cannot communicate with AV-APA  
OR  
AV-30 is set to use a GPS autopilot mode without GPS data available

**NOMAG**

AV-30 is configured to use AV-MAG, but cannot communicate with the MAG

**MAG CAL**

AV-30 is configured and communicating with a magnetometer, but it is not calibrated

### GPS Ground Track Reference

Shown when in GPS-based autopilot mode but displaying DG Heading



**Autopilot Bug**  
Indicates the direction commanded to the autopilot



### DG Heading Reference

Shown when in autopilot is following heading bug, but AV-30 is displaying GPS Track

### Autopilot Modes

- Off
- Heading Bug
- GPSS <sup>(1)(2)</sup>
- Track Bug <sup>(1)</sup>
- Waypoint Desired Track <sup>(1)(4)</sup>
- Waypoint Bearing <sup>(1)(4)</sup>
- ForeFlight <sup>(2)(3)</sup>

- (1) Requires GPS  
(2) Requires Advanced Autopilot Unlock  
(3) Requires AV-Link and ForeFlight  
(4) AV-APA or RS-232 Autopilot only