AV-30 Quick Reference Card
Attitude Indicator Mode

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Basic Data
- Blank
- DG Heading
- IAS
- Altitude
- Baro Set
- AoA
- Vertical Speed
- G Load, G Min, G Max
- Bus Volts
- Set Altitude [4]

If Temp Probe
- OAT, TAS, DALT

If GPS Connected
- Waypoint ID
- Distance To
- Ground Speed
- Track
- XTE
- DTRK
- Bearing To
- Nav Mode
- 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

Battery State

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 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.

SETUP MENU
UI Style
UI Font
G Max/Min Reset
Course Deviation
Glideslope
Alert Volume
AoA Alert Enable
AoA Alert Thresholds [1]
G Alert Enable
G Alert Thresholds
Roll Alert Enable
Roll Alert Thresholds
Turn Coordinator Mode [3]
Min/Max Voltage
GPS Track Stabilization
HOURS

Push left button 2x
SETUP
ROT TO SEL

[1] AoA limits will be grayed out unless rotary knob is pushed while applying power.

[2] 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.

[3] Standard Rate Bank Angle indicator requires temp probe.

[4] Double beep and flash when crossing 200ft from set altitude. Solid color change when within 100 ft of set altitude

www.uavionix.com/support
Support: (844) 827-2372

AV-30 Quick Reference Card
Directional Gyro Mode

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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
- Nav Mode
- 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 [2]

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

Battery State

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 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:
- **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 MFD (if enabled), CDI (if enabled) or AI mode.

SETUP MENU

UI Style
UI Font
G Max/Min Reset
Course Deviation
Glideslope
Min/Max Voltage
GPS Track Stabilization
HOURS

Push left button 2x
SETUP
ROT TO SEL

[1] 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.

*[2] Interpreting wind:
Up arrow = tailwind
Arrow pointing left = wind pushing on left of aircraft*

AV-30 Quick Reference Card
Transponder Control Display State

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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

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

IDENT
When identing, PALT will display IDT

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

TESTING

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

Squawk Set Mode

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

If SQUAWK is displayed, push and hold to enter FLIGHT ID entry mode.

Testing the transponder

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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 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.

Traffic Count
- **NO TRAFFIC** – Zero aircraft detected OR ADS-B In unit not reporting traffic
- **X AIRCRAFT** – Number of aircraft detected, including those filtered and those off-screen

Select
1:1 OR AI
For tailBeaconX

Callsign or Flight Identifier

Distance, altitude, and airspeed of target

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

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

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

If Temp Probe
- OAT, TAS, DALT

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If AV-HSI Connected
- OBS
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If Autopilot Connected
- Autopilot Mode

If BeaconX connected
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If AV-Link+Sentry connected
- CO – Carbon Monoxide

If Temp Probe + AV-MAG + GPS
- Wind Vector
- Wind Components

Available Only with AV-HSI

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)*
- **BARO** *(when an overlay)*
- **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
Min/Max Voltage
GPS Track Stabilization
HOURS

Push left button 2x
SETUP
ROT TO SEL

AV-30 Quick Reference Card
Alerts and Flags

ALERTS

Alert	Description
G LIMIT (red)	G-Load Exceeds Set Limit
G LIMIT (amber)	G-Load Exceeds 80% of Set Limit
ANGLE (red)	AoA Exceeds Set Limit
ANGLE (amber)	AoA Exceeds 80% of Set Limit
ROLL (amber)	Roll Exceeds Set Limit
C MONOXIDE (red)	Carbon Monoxide Exceeds 200ppm *Requires AV-Link + Sentry
CHK ATTITUDE (red)	Attitude Miscompare Between multiple AV-30 * Requires AV-HSI
DEMO (amber)	AV-30 is in Demo Mode. Do not Fly

FLAGS

ALIGN — Gyro is aligning, do not move aircraft

NOAP — 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