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SERVICE ADVISORY

NO.: 23033 Rev A

TO: Garmin GTX™ 345/345R/345D/345DR/45R, GDL® 88(H)/84(H), GNX™ 375, GTS™ 800/820/850, and GTS 825/855/8000 Owners and Operators

DATE: August 7, 2023

SUBJECT: ADS-B In Surface Targets

PRODUCTS AFFECTED

GTX 345/345R/345D/345DR/45R, GDL 88(H)/84(H), GNX 375, GTS 800/820/850, and GTS 825/855/8000 units (with software listed in Table 1) using ADS-B IN are affected.

Table 1 Product Affected

Unit	Software Versions
GTX 345/345R/345D/345DR/45R	ADS-B 2.00 through 3.40 (except 3.15 and 3.32)
GDL 88(H)/84(H)	3.00 through 3.42
GNX 375	Main 2.00 through 3.20
GTS 800/820/850	5.00 and 5.01
GTS 825/855/8000	4.00 through 4.04 (except 4.03.1)

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ISSUE

Slow-moving (less than 20 knots) 1090ES ADS-B and ADS-R surface targets may erroneously appear as directional. Figure 1 shows an example traffic display with both slow-moving directional and non-directional surface traffic. The selected surface target is erroneously shown with a directional symbol while the surface target near the top is correctly shown with a non-directional symbol (diamond).

NOTE

Airborne and UAT targets are not affected.

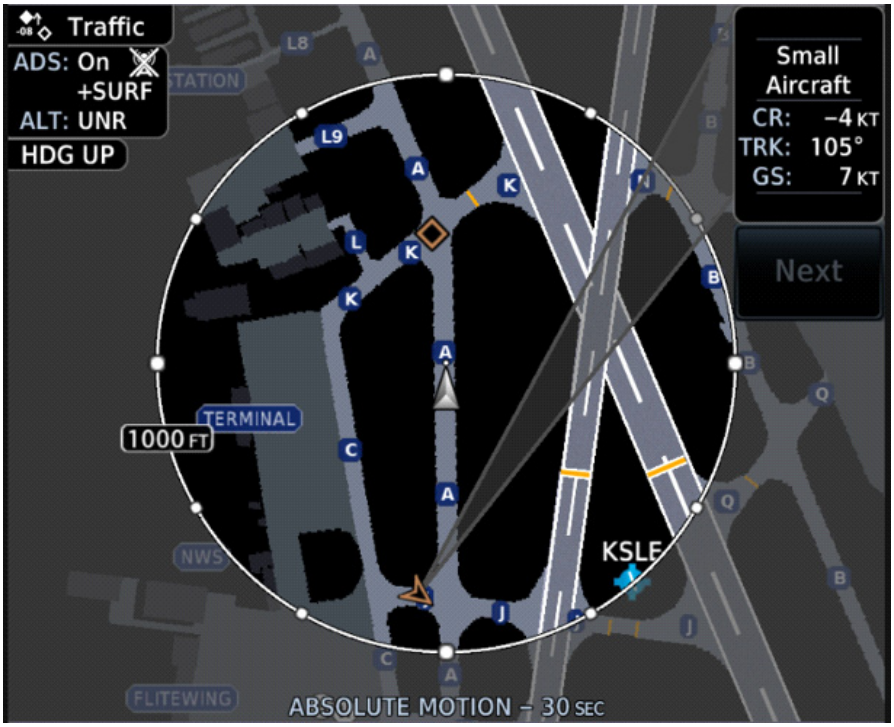


Figure 1 - Example Traffic Display

PILOT ACTION

Be aware that directionality of slow-moving (less than 20 knots) ADS-B In surface targets may be shown erroneously.

NOTE

The ADS-B SURF traffic display is to be used only to supplement what can be seen out the window (AC 90-114B section 2.4.3).

RESOLUTION

Refer to Table 2.

Table 2 Resolution

Unit	Corrected Software Versions
GTX 345DR	ADS-B 3.32 (Garmin TSO Service Bulletin 23042)
GTX 345/345R/345D/345DR/45R	ADS-B 3.41 (Garmin TSO Service Bulletin 23031)
GTX 345/345R/345D/345DR/45R	ADS-B 3.15
GNX 375	Main 3.21 (Garmin TSO Service Bulletin 23037)
GTS 825/855/8000	4.03.1
GTS 800/820/850	5.02
GDL 84(H)/88(H)	3.43 (Garmin TSO Service Bulletin 23056)