



Date: July 16, 2020

One S-TEC Way

Mineral Wells, TX 76067

Federal Communications Commission

Authorization & Evaluation Division

7345 Oakland Mills Road

Columbia, Maryland 21046

RE: Control of operational frequencies

To Whom It May Concern:

The product series identified by FCCID: 2AF9C-GDRXXXX are authorized to operate in the FCC authorized frequency band of 118-136.975 MHz and channel plan. This product is also capable of operation in the EUROCAE frequency band plan and government frequencies as defined in 87.41 (c).

EUROCAE band plan operation, with 8.33 kHz channel spacing, will not be exercised within the US National Air Space. EUROCAE band plan is controlled by the channel number. Air traffic control (ATC), or flight maps call out the channel number allowed for operation. Channel numbers are now used rather than frequency so that Europe and USA airspace are compatible with no confusion. The channel number 118.000 is at 118.00 MHz with 25 kHz operation while channel 118.005 is at 118.000 MHz with 8.33 kHz spacing. The pilot must adhere to FCC/FAA regulation, while operating in the USA national airspace and transmit only on an assigned channel numbers.

The channel numbers are defined by ARINC 716 and agreed to by international convention. The old frequency convention and new channel numbers are reverse compatible, i.e., all 25 kHz frequencies are identical to channel numbers. Additionally, our control heads are configurable to disable 8.33 kHz channels tuning when in the United States.

Part numbers capable of operating outside the 118-136.975 MHz FCC band plan are only sold to governmental agencies or their authorized installers. This is controlled by our export control process where each sale is screened for the final end user and destination country.

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The features of the radio are software configured during the manufacturing process in a proprietary configuration file, which defines the model number and related frequency bands of operation. Model configuration is only allowed at an FAA authorized service center. The available models are shown in the table below. As per FAA regulation, the identifying label will indicate the part number of the unit. All units contain the same hardware.

| Part Numbers | Models | VOR/ILS | Marker Beacon | VHF COM, 136 MHz | VHF COM, 156 MHz | UHF COM 225-400 MHz | Tx power (Watts) | Ony/Off control |
|----------------|-----------|---------|---------------|------------------|------------------|---------------------|------------------|-----------------|
| 42-033001-0001 | GDR-1636 | Y | Y | Y | | | 16 | Y |
| 42-033001-0002 | GDR-1636 | Y | Y | Y | | | 16 | N |
| 42-033002-0001 | GDR-1656 | Y | Y | | Y | | 16 | Y |
| 42-033003-0001 | GDR-1636U | Y | Y | Y | | Y | 16 | Y |
| 42-033004-0001 | GDR-1656U | Y | Y | | Y | Y | 16 | Y |
| 42-033005-0001 | GDR-2536 | Y | Y | Y | | | 25 | Y |
| 42-033006-0001 | GDR-2556 | Y | Y | | Y | | 25 | Y |
| 42-033007-0001 | GDR-2536U | Y | Y | Y | | Y | 25 | Y |
| 42-033008-0001 | GDR-2556U | Y | Y | | Y | Y | 25 | Y |
| 42-033009-0001 | GDR-1624U | | | | | Y | 16 | Y |
| 42-033010-0001 | GDR-2524U | | | | | Y | 25 | Y |

Sincerely,

Casey Dankers

Director of Operations