



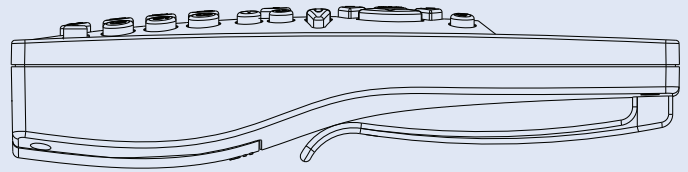
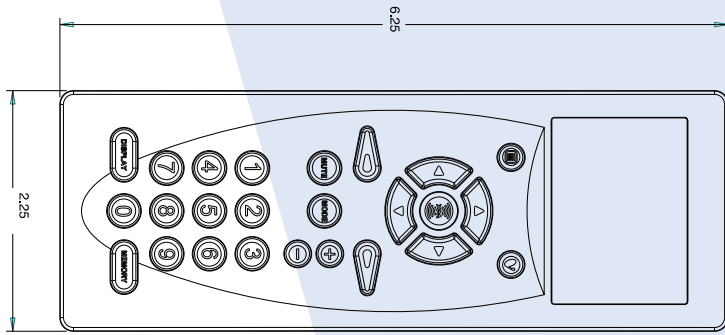
Wireless Radio

Satellite Digital Audio Radio Services

Tired of listening to the same old Compact Discs over and over again? Now you can listen to 170+ channels of live radio stations delivered coast-to-coast from XM Satellite Radio!

Just imagine 170 channels of your favorite music, news, sports, weather, and talk programs! Stations like CNN Headline News, Fox News, Bloomberg, BBC World Service, ESPN Radio, ABC News & Talk, MTV, VH1, plus dozens of music channels providing the best country, jazz and blues, rock, hits, and classical music. Even Radio Disney for kids! All in 100% digital quality.

XM brings "Radio to the power of X" to your car and home. Let Heads Up Technologies deliver this great XM programming to your aircraft.



Wireless Radio Specifications

Welcome to Heads Up Technologies next generation of satellite radio receivers. Designed to provide all the enjoyment of XM's audio programming over a single receiver, but without the need to integrate into cabin management entertainment systems. What makes this solution so exciting?

Integrated Bluetooth and OLED Technologies.

These innovative technologies have been applied to provide users an extremely flexible and cost effective approach for providing XM radio in their aircraft. Reduce the expense of installation and avoid those 'line of sight' issues with traditional Infra-red remotes. Get clear visual readout on selected channels, categories, presets and more.

Great Programming.

Radio has never seen talent and programming like this: the most innovative deejays, compelling hosts and authoritative experts in dozens of different specialties. In addition, XM has teamed with the world's leading broadcasters and content producers including The Discovery Channel, CNBC, FOX NEWS and ESPN Radio to name just a few. Thanks to XM's two geosynchronous broadcast satellites named 'Rock' and 'Roll', you can enjoy your favorite channels across the entire contiguous United States.

XM's Broadcast Center.

XM's headquarters, located in Washington, DC, has 82 fully digital studios, 20 multi-function digital suites, and 310 audio workstations linked by a complex network of fiber optics to an unsurpassed library of digital recordings - an archive with literally millions of musical entries. There's even a 2,600 sq. ft. performance studio for live recordings and broadcast. All studios are fully acoustically dampened and vibration isolated.

XM Radio and XM WX Satellite Weather services.

Heads Up offers a complete line of radio and weather receivers. So, whether you want a cost-effective single channel XM radio or you lean more towards a multi-user, fully integrated system, we have you covered.

Heads Up is licensed by XM to design and manufacture XM technology specifically for the aircraft environment. Contact us at (972) 980-4890 or visit us at www.heads-up.com for additional information.

The XM name and related logos are trademarks of XM Satellite Radio.

Programming

- Number of Stations 170+ Channels
- Number of Program Groups 20 (subject to change by XM)
- Nominal Station Access Time 1 - 3 seconds

Digital Audio

- Sample Rate 44 KHz
- Sample Size 16 bit
- Audio Outputs 1 - 2 VRMS

Electrical

- Microprocessor Based 32 Bit - 40 Mhz RISC
- Memory Type Linear Flash
- Memory Capacity 2 MB (Min) -to- 34 MB (Max)
- Voltage (nominal) 11 - 32 VDC
- Receiver Current (nominal) 0.30 Amp - 0.55Amp at 13.8VDC
0.18 Amp - 0.30 Amp at 27.5 VDC
- Antenna patch type
- Databus Protocol RS-232 for Weather
(When using XMD076A receiver)

Physical

Receiver(s) - XMR050 / XMD076A

- Height 1.35" / 1.82"
- Width 6.46" / 6.46"
- Depth 7.80" / 7.80"
- Weight 1.17 lbs / 1.70 lbs

Remote Controller

- Height 6.25"
- Width 2.25"
- Depth 1.46"
- Weight 0.39 lbs
- Display Type/Resolution OLED Display - 128 x64
180 degree viewing angle

Environmental

- Storage Temperature -67F to +176F (-55C to +80C)
- Operating Temperature -4F to +140F (-20C to +60C)

Testing/Certification

- Hardware - Environmental RTCA DO-160D
- Software RTCA DO-178B, Level E



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