



DSMX User Guide

DSMX Bedienungsanleitung

Guide de l'utilisateur - DSMX

DSMX Guida dell'utente

DSMX™

Spektrum launched the 2.4GHz RC revolution with its DSM2™ technology. Since then millions of hobbyists the world over have come to embrace 2.4 as the way to fly. Spektrum leads the way yet again with DSMX—the world's first wideband, frequency-agile 2.4GHz signal protocol.

How Does DSMX Work?

It's a crowded 2.4GHz world out there and every 2.4GHz system faces the same challenges. DSMX better equips you for these challenges by combining the superior data capacity and interference resistance of a wideband signal (like that used in DSM2) with the agility of frequency shifts.

Compared to the wideband signal of DSMX, the narrow band signal of other frequency hopping 2.4 transmitters is more likely to suffer data loss in the event of on-channel interference. Think of it as a river vs. a stream. It takes more interference to dam a river than it does a stream.

As more and more 2.4 transmitters vie for the same number of available channels, there is more interference and more of a risk for data loss. By adding the agility of frequency shifts to the superior interference resistance of a wideband signal, DSMX is far less likely to suffer significant data loss from on-channel interference. The result is quicker connection times and superior response in even the most crowded 2.4GHz environment.

DSMX Operational Differences

DSMX transmitters and receivers function nearly identically to Spektrum DSM2 systems. Binding, setting the failsafe, recording flight log data, as well as general use of the system is no different than using any current Spektrum system.

Following are the operational differences:

Brownout Detection - Not Available on DSMX Receivers

DSM2 receivers feature Brownout Detection that flashes the receiver's LED if a power interruption occurs. While DSMX receivers have QuickConnect and recover instantly from a power interruption, the architecture of DSMX prevents Brownout Detection when operating in DSMX mode.

Flight Log Recording-Fades Higher than DSM2

Note that DSMX hops through the band while DSM2 finds two quiet channels and remains on those channels. Consequently because DSMX operates on quiet and noisy channels, it's common to have more Antenna Fades than when using DSM2, when used in busy 2.4GHz environments. When taking flight log data readings, the Frames and Hold Data are important and should be used as a reference while Fades are insignificant due to the nature of frequency hopping. A 10-minute flight will typically result in less than 50 Frame Losses and no Holds.

Just How Good is DSMX?

In multiple tests, 100 DSMX systems were operated simultaneously for extended periods of time. During these tests each of the 100 systems was monitored in flight and on the ground. In every test not a single case of RF link loss, latency increase or control degradation was experienced or recorded.

Is DSMX Compatible with DSM2?

Yes. DSMX is fully compatible with all DSM2 hardware. In fact, many pilots may find the DSM2 equipment they have now is all they will ever need. Even if a new DSMX transmitter eventually comes along that they really want, all the DSM2 receivers they have now will work with it.

It is important to note, however, that while DSMX is compatible with DSM2, the only way to experience the full benefits of DSMX in a busy 2.4 environment is by pairing a DSMX transmitter with a DSMX receiver.

Can DSM2 Transmitters be Upgraded to DSMX?

Yes. DX8 owners can simply download Spektrum AirWare™ v2.0 software from spektrumrc.com and update the firmware using their SD card. DX6i transmitters manufactured after October 2010 can be upgraded using instructions provided on spektrumrc.com. All other DX6i DSM2 transmitters can be upgraded for \$75 by sending them to the Horizon Hobby service center. DSM2 receivers and transmitter modules cannot be upgraded to DSMX.

Does DSMX have ModelMatch and ServoSync?

Yes. DSMX will provide you with these and other exclusive Spektrum advantages you already enjoy with DSM2. Want to know more about DSMX? Visit spektrumrc.com for complete details on this as well as the many other reasons Spektrum is the leader in 2.4.

Note: DSMX receivers are not compatible with DSM2 remote receivers and DSM2 receivers are not compatible with DSMX remote receivers.