

iX12 and DX18 Compatibility Mode

In the DX18 channels 11 & 12 are configured by settings for X+1/2. This is DX18 Compatibility Mode.

In a DX20 with DX18 Compatibility Mode turned on, it behaves the same way.

In this mode, the user will see 11/12 making the same operations as X+1/2 on a 20-channel receiver (or an AR9020 + XPlus-8, though 11/12 aren't available on servo ports).

If DX18 Compatibility Mode is disabled, then a DX18 will drive 11/12 to center and a DX20 will use the configuration for channels 11/12.

When a file is imported into an iX12 with DX18 Compatibility Mode enabled, then it will honor the settings and control 11/12 based on how the DX18/20 had X+1/2 set up and X+1/2. Any settings made in the iX12 for channel 11/12 will be IGNORED because the DX18 Compatibility Mode setting is telling it to use X+1/2 instead.

If the user wishes to run this file on a 12-channel receiver and be able to configure 11/12, he will need to first disable DX18 Compatibility Mode and then set up channels 11/12 manually to match what used to be sent to X+1/2.

When a file is imported into an iX12 with DX18 Compatibility Mode disabled, then it will ignore any leftover settings for X+1/2. By default 11/12 will be centered and it will be up to the user to configure what happens on them.

An iX12 is a 12-channel transmitter. It is not intended to drive X-Plus channels. It provides a minor level of compatibility by honoring DX18/20 settings for those channels, but it's not going to give you an 18/20-channel system. If you want to be able to configure X-Plus channels, you need to use a DX18/20.

Related to this is Frame Rate.

DSMX can operate in several modes:

- 6/7-channel 22ms mode (up to 7 channels available, selected by using an old receiver)
- 10-channel 11ms mode (up to 10 channels – 4 at 11ms and 6 at 22ms)
- 12-channel mode (up to 12 channels, all at 22ms)
- 18/20-channel mode (up to 12 channels at 22ms, plus 8 X-Plus channels at 22-88ms)

Because of this, if you configure your iX12 to operate in 11ms mode, it will only drive 10 channels. AILE, ELEV, RUDD, and AUX1 will be 11ms and THRO, GEAR, AUX1-AUX5 at 22ms and AUX6/7 (11/12) will not be sent at all.