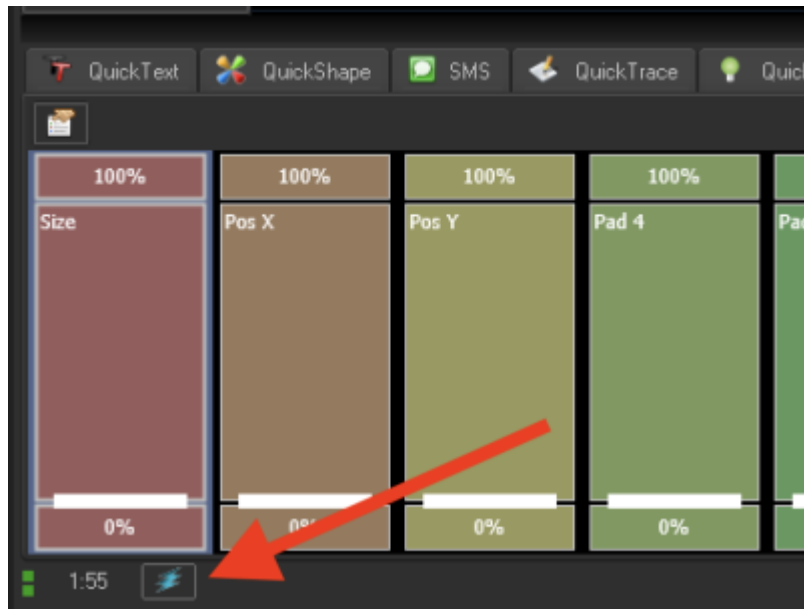# Turbo Streaming

BEYOND 5.5 and up, will be able to use a new communication model aimed at large amount of FB4 laser controllers. You can enable this mode by clicking the Turbo button.

The Turbo button can be found in the bottom tray bar.

Turbo button	Activity state
	Disabled
	Enabled

The Classic Model

The classic streaming model is the default communication mode.The Classic model is exclusively based on TCP/IP communication. The TCP protocol takes care about data delivery. TCP waits for confirmation to make sure that the data is delivered. TCP communication is recognized as reliable because it will always deliver data but this also has its downsides. TCP does not consider that data might be outdated and will use hig segmentation and multiple internal messages for delivery confirmation. In a less ideal situation, this can cause for delays in laser output as it can increase delivery time. Time is a critical thing.

Turbo mode

It is not a secret that ArNET and ANN are based on UDP (User Datagram Protocol) communication. What we did in turbo mode is use the best of both worlds. The turbo mode protocol is based on both TCP and UDP.

FB4 Data Transmission Monitor graphs

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