

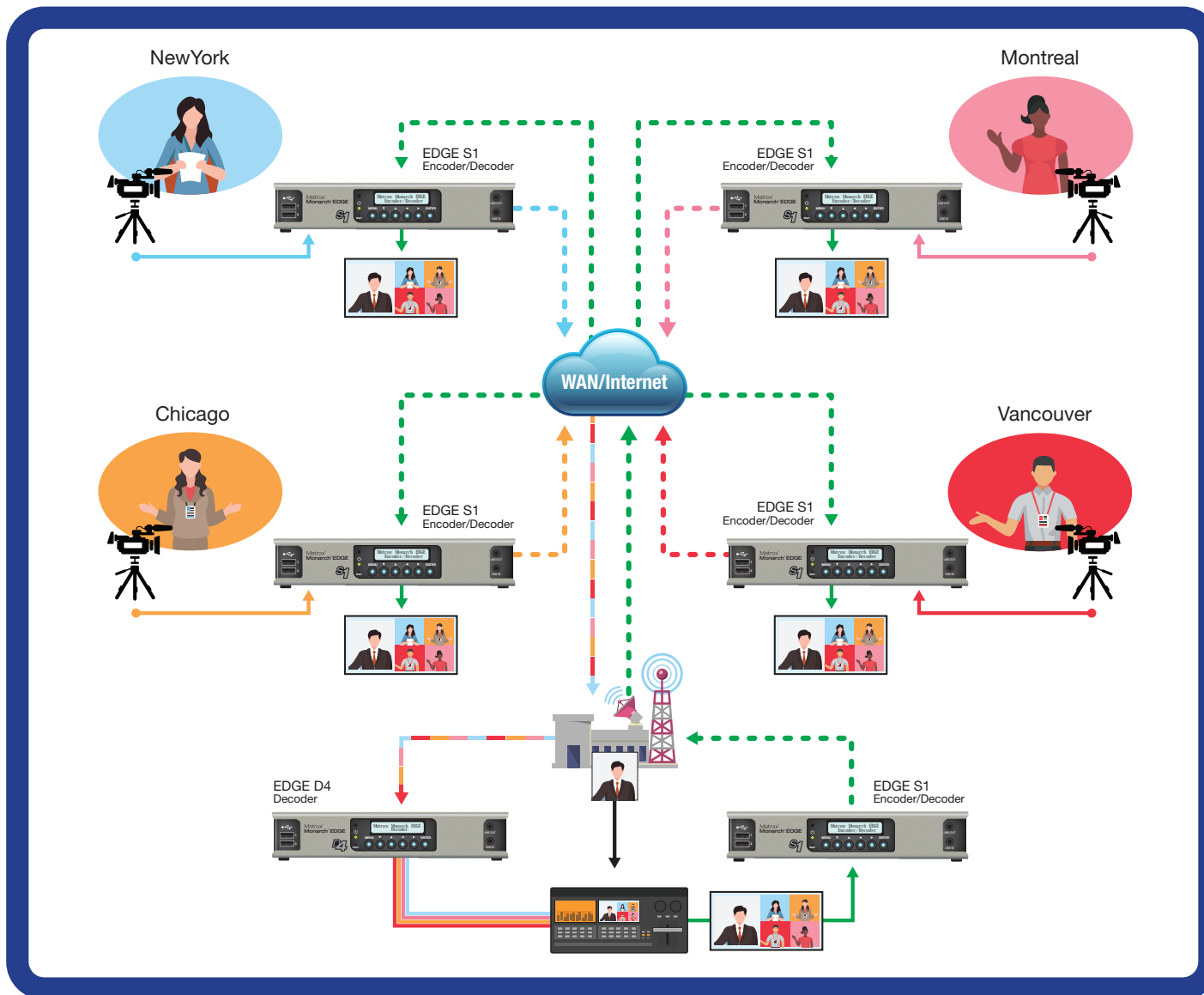
Matrox® Monarch™ EDGE S1

# Remote Collaboration

Easily bring remote talent from separate studios together with Monarch EDGE S1.

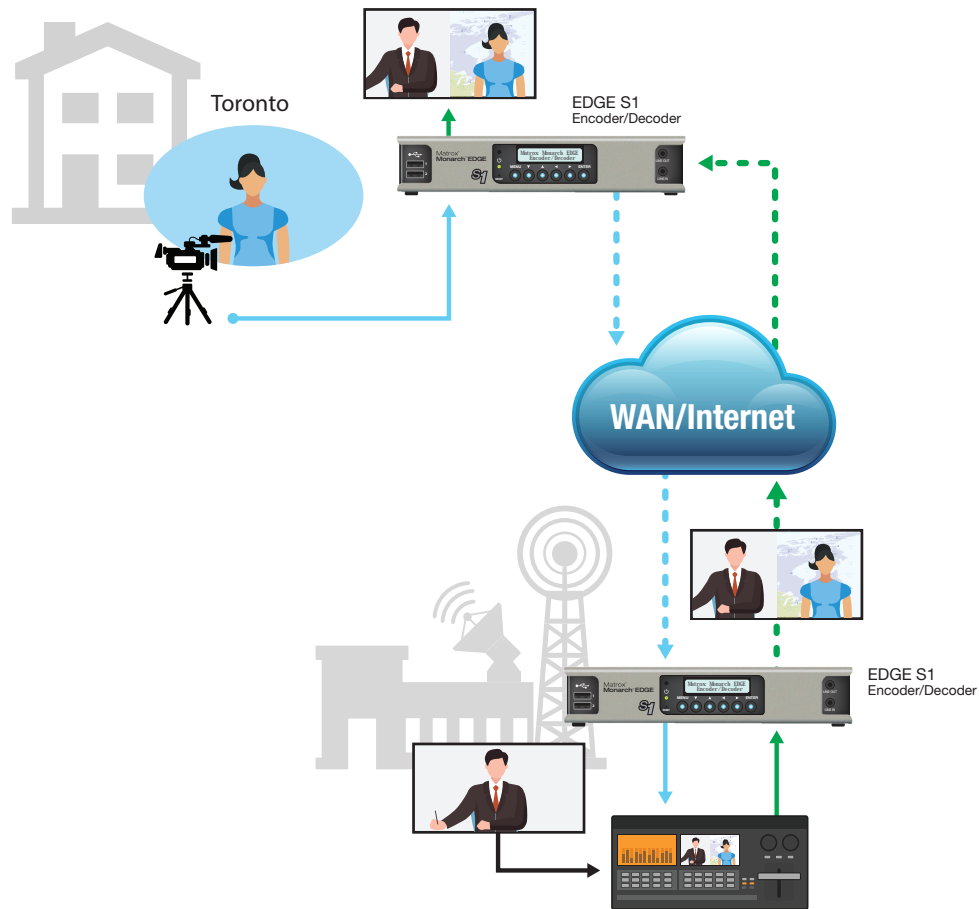
With extremely low latency and simultaneous bi-directional communication, interaction between remote sites and the central studio are smooth and natural, eliminating disruptions to the flow of dialog that are typical with other solutions.

A Monarch EDGE S1 is at each remote location where the talent is encoding and sending their video to the central studio. There, a Monarch EDGE D4 decoder is used to decode and send SDI signals into the production switcher. The program or multiview output of the video switcher is then sent to a Monarch EDGE S1 encoder/decoder, where it is then sent back to the remote locations for remote talent to be able to see and hear other talent and host of the program.



For more information  
[www.matrox.com/edge S1](http://www.matrox.com/edge S1)

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## Matrox® Monarch™ EDGE S1

# Remote Contributor

As both encode and decode operations can occur simultaneously with a Monarch EDGE S1 encoder/decoder, a contributor operating a single high-quality SDI camera in the field can use this device to send both a high-quality feed to studio and receive the program feed being produced by the studio.

Both locations are equipped with a Monarch EDGE S1 encoder/decoder, which allows for simultaneous encoding and decoding. At the studio, the stream from the field is decoded by a Monarch EDGE S1 and sent to a vision mixer where a Chroma key composition with the weather background is applied. The program feed is then encoded by the same Monarch EDGE S1. From there, it is returned to the remote location as a return channel of the program out using the same Monarch EDGE S1. At the remote location, the same Monarch EDGE S1 that was used to encode the contribution feed is used to receive the return channel as either the program feed or another camera source.

As the glass-to-glass latencies between the remote location and the studio are very low, real-time dialog between remote operators and in studio talent is very smooth and natural.

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## Multi-Camera Production with Return Feed

Affordably equip a multi-channel, live remote production with a combination of the Monarch EDGE E4 encoder, the Monarch EDGE D4 decoder, and the Monarch EDGE S1 bi-directional encoder/decoder. With this powerful combination, offer your staff all of the video feeds required to deliver optimal productions.

At the remote venue, a Monarch EDGE E4 encoder is used to encode the four SDI camera feeds and send them back to the studio over public internet using the SRT streaming protocol. These streams are then received in the studio by a Monarch EDGE D4 decoder and decoded to four SDI outputs. These outputs are then sent to the production switcher where the final program is created and graphics are added to the final production. The program out of the production switcher is sent to a Monarch EDGE S1 encoder/decoder, from which it is sent back to the remote venue as a program feed return channel. At the remote venue, the program return feed is received by a Monarch EDGE S1 and decoded to SDI. From there, it is then sent to SDI distribution to provide camera operators and other on-site staff with the final produced feed of the live event.

All of these flows benefit from low-latency, low-bitrate, 4:2:2 10-bit encoding, making the solution suitable for virtually any production.

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