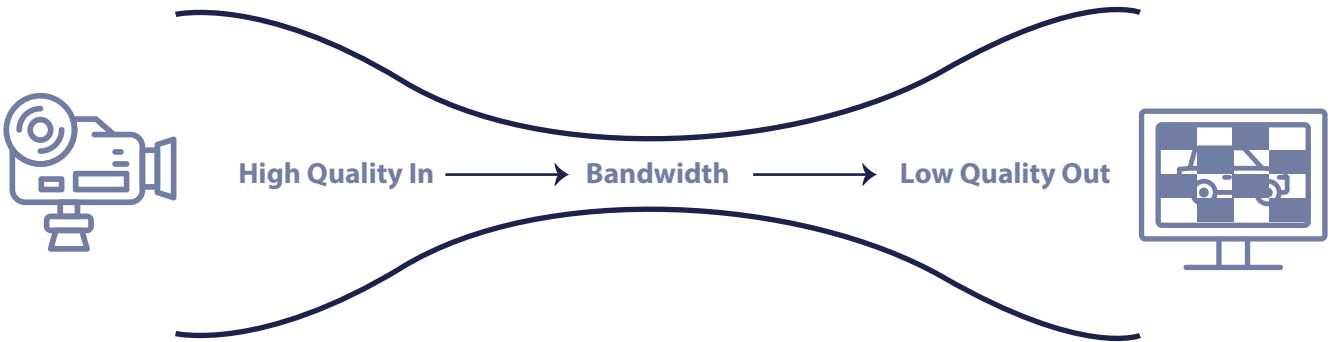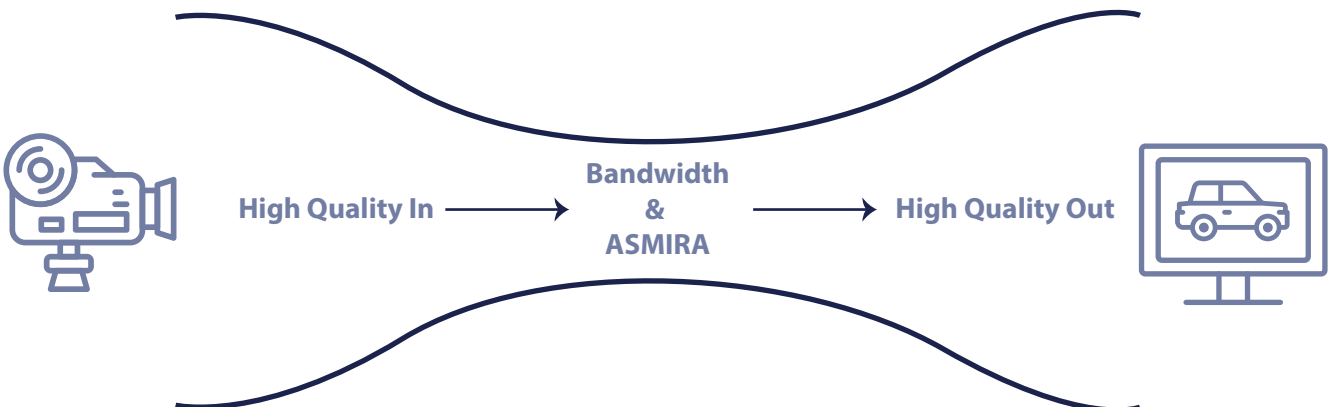# ASMIRA | High Precision Video Streaming at Low Data Rates

The sharing of real-time, high quality video information captured from high precision cameras or sensors in remote locations is often limited due to challenging connectivity environments.

Degraded cellular, or low varying bandwidth contended networks lack the available capacity to support effective transfer. SATCOM is often too expensive, too slow or requires costly dedicated codec hardware.

High Quality In → Bandwidth → Low Quality Out

ASMIRA is a software-only solution, designed to enable efficient video transfer over low data rates. With the flexibility to optimise parameters such as bit rate, frame rate, and resolution, ASMIRA delivers HD quality video at <200kbps and SD video rates as low as 50kbps, which can be easily shared with decision-makers. ASMIRA also enables the effective use of HTS connectivity.

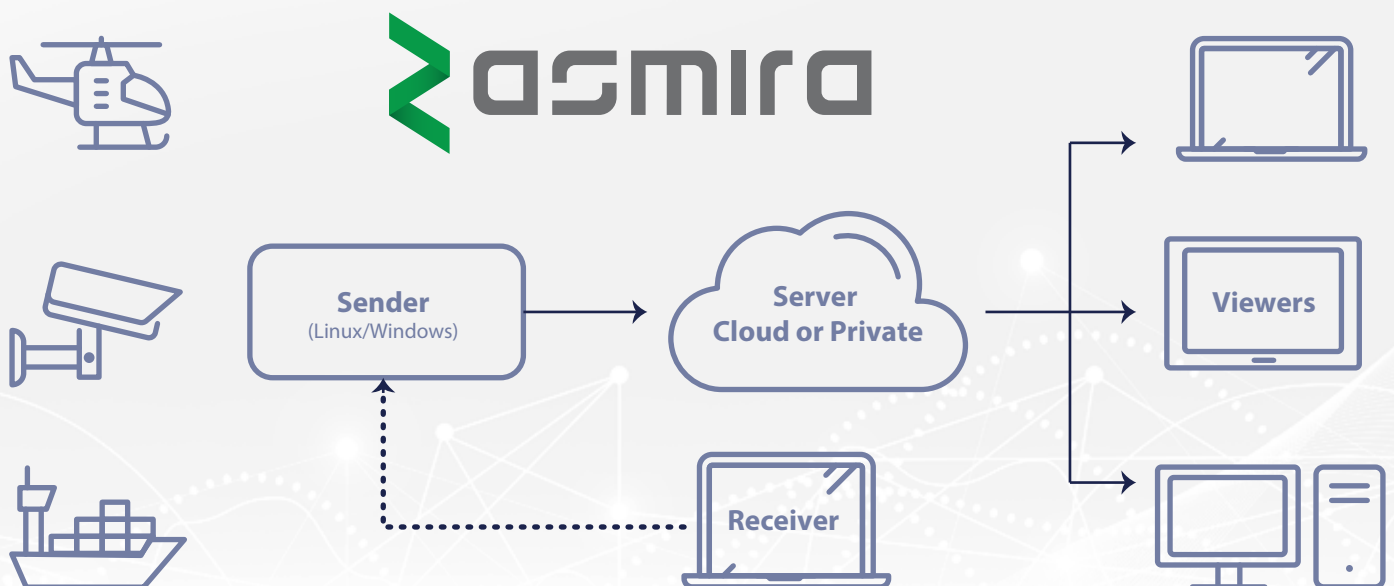High Quality In → Bandwidth & ASMIRA → High Quality Out

Deployed as an embedded or PC-hosted solution, ASMIRA consists of three core software components and a server instance.

► **ASMIRA SENDER** – hosted on a laptop, PC, or embedded compute capability or terminal, the Sender software accepts and compresses the digital video input from compatible cameras or sensors. Available on Windows or Linux OS, the Sender software connects to the connectivity hardware.

► **ASMIRA RECEIVER** – the trained operator uses the Receiver software to optimise the source video. By selecting the maximum bit rate for video encoding, the operator ensures the efficient use of the available bandwidth while adjusting the frame rate, and video resolution delivers the highest quality video streaming over that connection. Receiver software is available for Windows and Mac OS.

► **ASMIRA VIEWERS** – provides multiple secondary viewing access to the optimised video feed. Available for laptops, PC, smartphones and tablets and accessed via the internet and dedicated apps, ASMIRA Viewers facilitates the easy sharing of video content to decision-makers and interested parties globally.
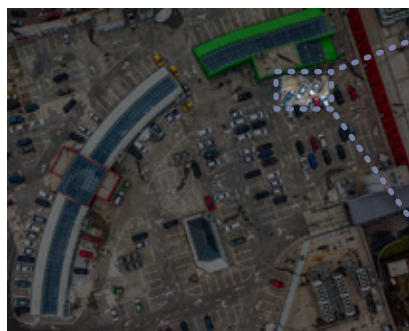
► **ASMIRA SERVER INSTANCE** – hosted on a private or public network with a fixed global IP address, the Server is the connection point for all ASMIRA nodes.
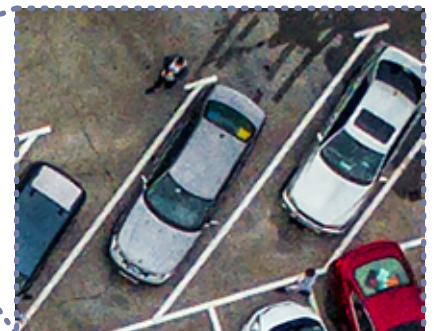

ASMIRA is perfect for crisis situations as well as remote operations onboard vessels, aircraft, and drones, where connectivity challenges are significant, and offers much more than compression. From the optimised video feed, the Receiver operator can select real-time content of critical importance, focusing capacity on regions of interest (RoI), which can then be viewed in the highest precision of the source camera and shared.

Source Video   **Select RoI**   **High Precision RoI**

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