NVIDIA | INCEPTION PROGRAM MEMBER

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Bridge WIZ

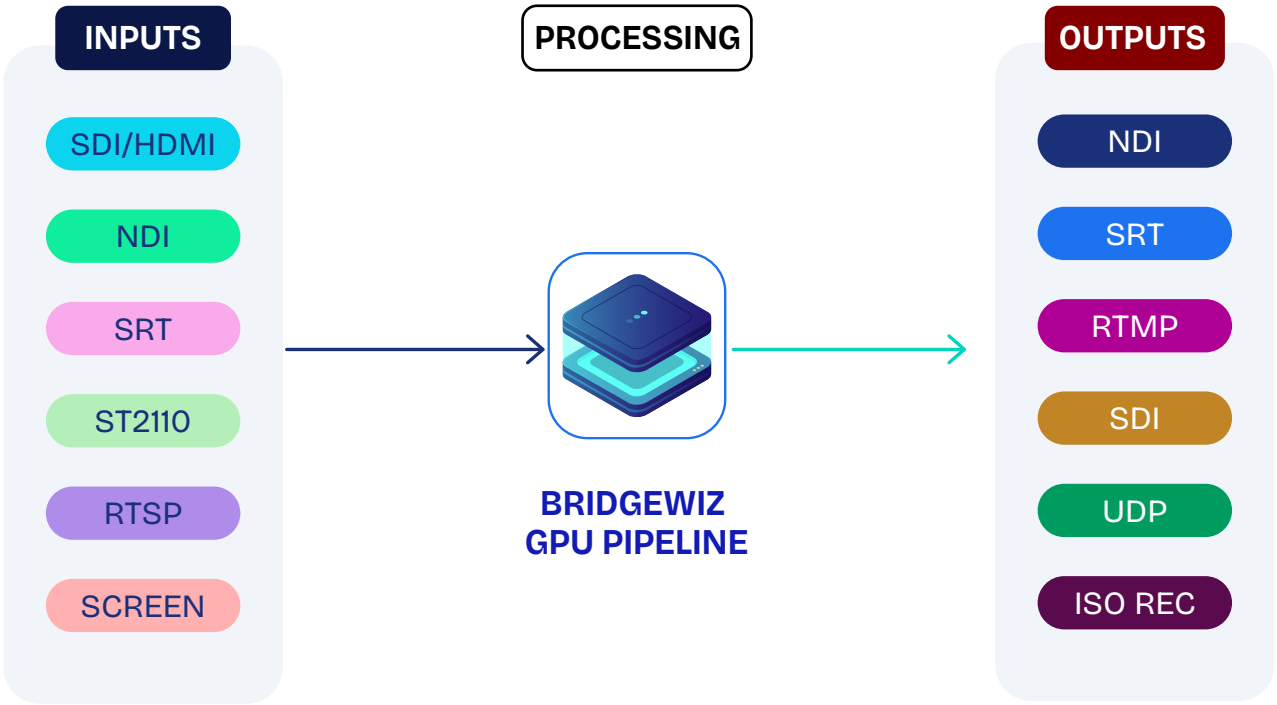
Multi-Protocol Live Video Gateway

ANY SOURCE. ANY PROTOCOL. ANY DESTINATION.

Replace multiple hardware encoders and converters with one flexible GPU server.

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Product Datasheet



All outputs simultaneously - from one processing pass

CORE CAPABILITIES

Full GPU Pipeline

Decode, convert, scale, encode, overlay and preview on NVIDIA, Intel or AMD GPU acceleration.

HTML Graphics Engine

Chromium-based tickers, lower thirds, logos and custom HTML/CSS/JS templates.

Software Scan Converter

Full screen, window or custom-region capture for Zoom, Meet, Webex and desktop sources.

ST2110 Native

Accept ST2110-20/30/40 and convert directly to NDI, SRT, RTMP, SDI, UDP and ISO recording.

Multi-Instance Scale

Run multiple independent BridgeWIZ instances on a single GPU workstation or server.

ISO Recording

Record each source to an independent local file while live outputs continue.

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BEST FIT



Broadcasters



Streaming & OTT



Newsrooms



Production Studios



OB Vans



Corparate AV

BridgeWIZ - Technical Specifications

Clean protocol, hardware, GPU and deployment summary

VIDEO INPUTS

SDI/HDMI	SD-SDI, HD-SDI, 3G-SDI and HDMI
NDI	NDI 6.2 sources on LAN
SRT	Caller, Listener and Rendezvous
RTMP/RTMPS	RTMP ingest sources
HLS / RTSP	HTTP Live Streaming and RTSP
UDP / DASH	Multicast, unicast and MPEG-DASH
ST2110	ST2110-20 video, -30 audio, -40 ANC
Screen Capture	Full screen, window and custom region

VIDEO OUTPUTS

NDI	Full-bandwidth NDI
SRT	Caller, Listener and Rendezvous
RTMP/RTMPS	YouTube Live, Facebook Live and more
SDI	Via Blackmagic DeckLink hardware
UDP	Multicast and unicast delivery
ISO Recording	Per-source independent local files

CODECS & RECORDING

Encoding	H.264, H.265/HEVC and AV1 where supported
Acceleration	NVIDIA NVENC, Intel QSV and AMD AMF
Profile/Level	Configurable per output
Bitrate	CBR, VBR and CQ modes
Containers	MXF, MP4, MOV, AVI, MKV and MPEG-TS
Audio	AAC, AC-3, MP2 and PCM
File Split	Configurable auto-split intervals
Naming	Source, date, time and timecode templates

GRAPHICS & SCREEN CAPTURE

Renderer	Chromium-based HTML graphics engine
Overlays	Tickers, lower thirds, logos and alpha video
Templates	Custom HTML/CSS/JS graphics
Capture	Full screen, window and custom region
Shortcut	Configurable shortcut for region selection
Mouse	Pointer show/hide option
Aspect	Aspect-ratio lock and preview before live
Memory	Capture region saved per project

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HARDWARE & DEPLOYMENT

I/O Hardware	AJA, Blackmagic, Bluefish444, Deltacast, Magewell and Yuan
GPU Pipeline	Ingest, decode, convert, overlay, encode and preview
Scaling	4K to HD and HD to SD per output
OS	Windows 10/11 and Windows Server
Server	On-premises GPU workstation or server
Cloud/VM	AWS, Azure, VMware and Hyper-V with GPU support

USE CASES

Broadcasters	SDI to IP and IP to SDI facility transition
Newsrooms	Desktop, meeting and web sources into production
OB Vans	SRT field feeds to NDI or SDI output
Streaming & OTT	SDI/ST2110 to RTMP/SRT plus ISO recording
Production	Multi-format contribution and distribution workflows

CONTACT TRICUBE

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Get in Touch

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