All In One Mobile Studio

A traditional studio requires extensive equipment—such as separate switchers, mixers, recorders, streaming encoders, multi-viewers, screen casting devices, PTZ controllers, virtual set systems, teleprompters, and graphics generators—along with multiple operators.

DingCaster integrates all these into a single portable unit weighing around 5 kg, enabling one-person operation for full live production and dramatically reducing user investment.

Workflow

Routing signals, enhanced by graphics, effects, and control — the
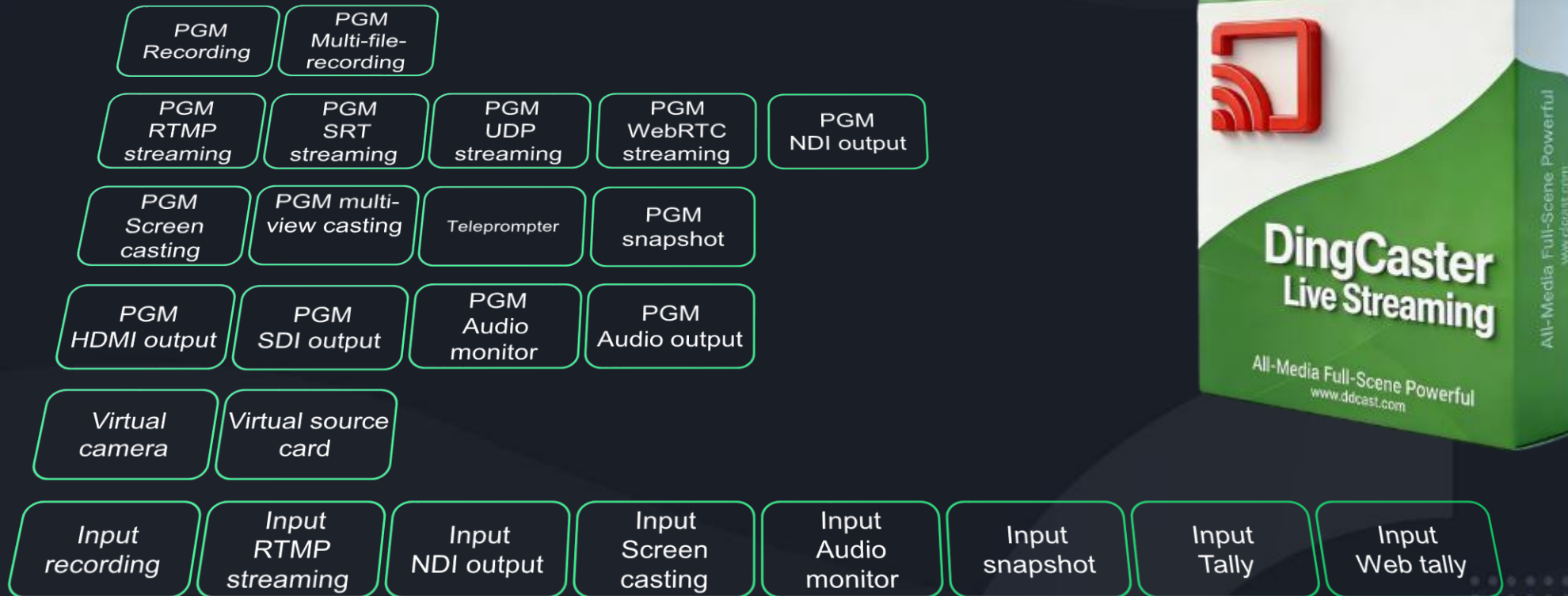DingCaster delivers complete production in a single box.

Inputs

- Cameras(IP/Wired/USB)
- Media files/Document files
- NDI/Network/Browser
- Virtual Set/Multi-View
- Mobile phone camera/screen
- Computer games/desktop/lyrics
- Mobile phone video call
- TikTok live
- Speech-to-Text Text-to-Speech
- Mixer/Microphone
- Remote DingCaster

Titles/Effects

- Titles
- Keying
- Transition effects
- Background effects
- Color Correction /Beauty
- Drawing
- Audio mix
- Audio effects

DingCaster Live Streaming

All-Media Full-Scene Powerful

Controllers

- Keyboard/ Mouse
- MIDI devices
- PTZ controller
- Virtual PTZ
- Mobile hone
- Tablet
- Face tracking
- Playlist

Outputs

- Multi-recording
- Multi-streaming
- Virtual camera
- Virtual source card
- Multi audio output
- Multi-Screen-casting
- Teleprompter
- NDI
- SDI/HDMI
- Portrait

Infinite Input

SDI camera	HDMI camera	IP camera	USB camera	UAV	gopro	Encoder	Mixer	Mic
MP4	AVI	MPEG	MOV	FLV	MKV	MP3	WAV	MP2
PNG	JPG	BMP	GIF	TGA	PPT	PPTX	PDF	DOC
HTTP	HTTPS	RTSP	RTMP	RTMPS	UDP	SRT	TCP	NDI
Phone screen	Phone camera	Video call	Remote DingCaster	Game	Monitor	Window	App audio	Desktop lyrics
Virtual set	Multi-view	Quick title	GT Title	XAML title	Weather live	Browser	TitTok live	Youtube live
Picture list	Video list	Audio list	Transition effects	Background effects	Audio effects	Speech-to-Text	Text-to-Speech	Pattern

DingCaster
Live Streaming

All-Media Full-Scene Powerful
www.ddcast.com

More than 50 types of signal sources — not just cameras — can be connected to the DingCaster. Anything can be live-streamed.

Infinite Output

Video recording, streaming, screen mirroring, virtual output, HDMI/SDI, NDI and so on can be output from the PGM or from input source. Multi channel concurrent output. One encoding, multiple outputs, saving hardware resources.

PGM Recording

PGM Multi-file-recording

PGM RTMP streaming

PGM SRT streaming

PGM UDP streaming

PGM WebRTC streaming

PGM NDI output

PGM Screen casting

PGM multi-view casting

Teleprompter

PGM snapshot

PGM HDMI output

PGM SDI output

PGM Audio monitor

PGM Audio output

Virtual camera

Virtual source card

Input recording

Input RTMP streaming

Input NDI output

Input Screen casting

Input Audio monitor

Input snapshot

Input Tally

Input Web tally

DingCaster
Live Streaming

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Full-Scenario Control

PC Keyboard

MIDI Device

PC Mouse

Real PTZ Controller

Joystick

Pen Tablet

Mobile Phone

Virtual PTZ Controller

PTZ Controller

Laser Pointer

Auto Switch

Tablet

Face Tracking

Gesture Recognition

It supports diverse control methods — including PC keyboard/mouse, MIDI device, PTZ joystick, mobile/tablet web-based control, as well as facial tracking, gesture recognition, and automated playback — to meet the demands of any production environment.

DingCaster Live Streaming

All-Media Full-Scene Powerful
www.ddcast.com

Audio & Video Connectivity

XLR/TRS/LINE

HDMI/SDI/USB/NET

mixer/ microphone/headset/wireless microphone

Camera/camcorder/UAV/motion camera/decoder

- **Video:** Supports up to 12 video devices, including cameras, camcorders, drones, sports cameras, and encoders. Compatible with HDMI, DP, SDI, USB, and NET interfaces.
- **Audio:** Integrates up to 6 audio devices, such as mixers, microphones, headsets, and wireless mics. Supports XLR, TRS, and LINE connections.

Supported Media Files

Video

MOV · **WMV** · **FLV** · **MPEG** · **AVI** · **MP4** · **MKV**

Audio

MP3 · **WMA** · **WAV** · **AAC**

Picture

TGA · **WEBM** · **GIF** · **JPG** · **PNG** · **BMP**

Document

PPTX · **PDF** · **PPT** · **DOC** · **HTML**

DingCaster
Live Streaming

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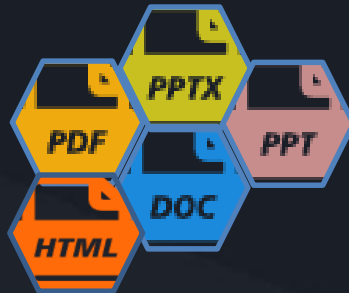
Supports common video, audio, image, office documents, and HTML files. Delivers seamless playback of transparent videos and images, and fully preserves embedded animations and effects in PowerPoint presentations.

Supported Network Stream

- Pull streams from network cameras, encoders, drones, sports cameras, live platforms, and more.
- Support for RTMP/RTMPS/SRT/RTSP/HTTP/HTTPS/HLS/TCP/UDP unicast and multicast protocols.
- NDI® compatibility with automatic source discovery.
- Browser/website integration: Video and image URLs are automatically parsed and can be added independently.

Supported devices

Browser
gopro
NDI device
CCTV
Live platforms
Bonding encoder
Network camera
UAV

Pull

Supported protocols

RTMP
HTTP RTSP
RTMPS TCP SRT
HLS HTTPS
UDP

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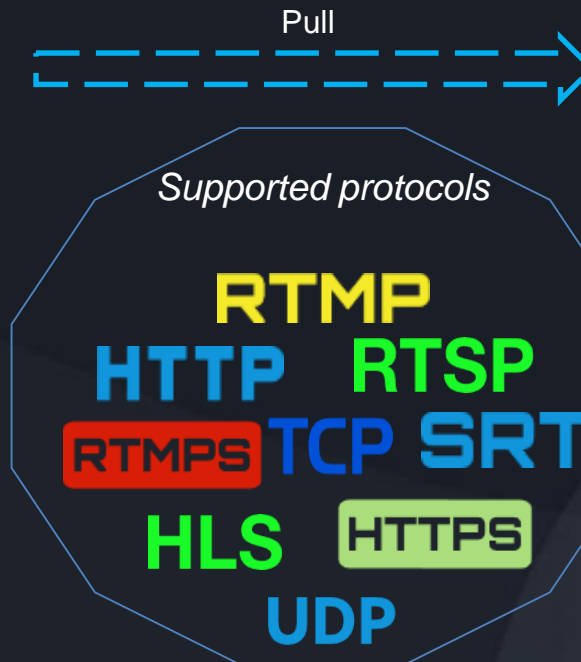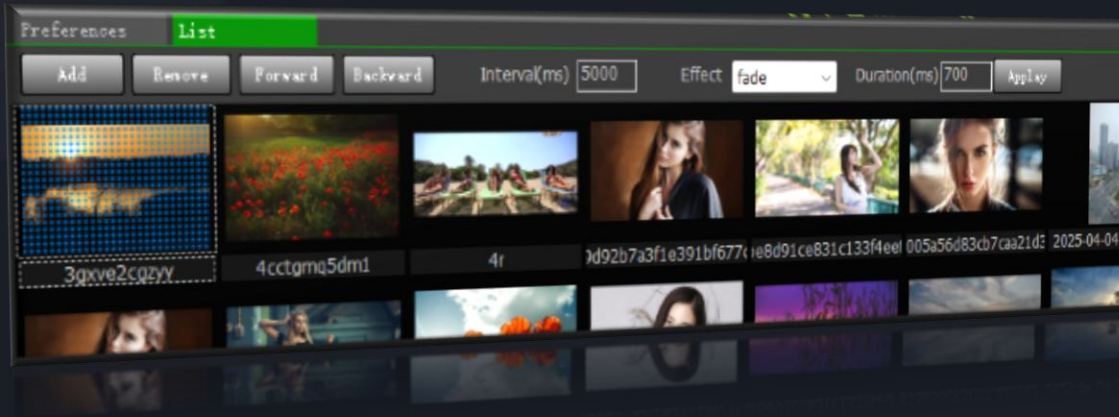
Support Playlist

- Stitch multiple videos, audio clips, images, or signal sources into a playlist for continuous sequential playback.
- Offers a variety of transition effects to choose from.
- Supports both manual and automatic switching with customizable interval timing.

Video list   Audio list   Picture list   Source list

Computer Desktop Integration

The presenter/lecturer's computer desktop can be connected via network or HDMI. Page turns are controlled by the presenter, ensuring real-time synchronization with the display output.

IP /HDMI

Network screenshot

HDMI screen mirroring

Synchronize
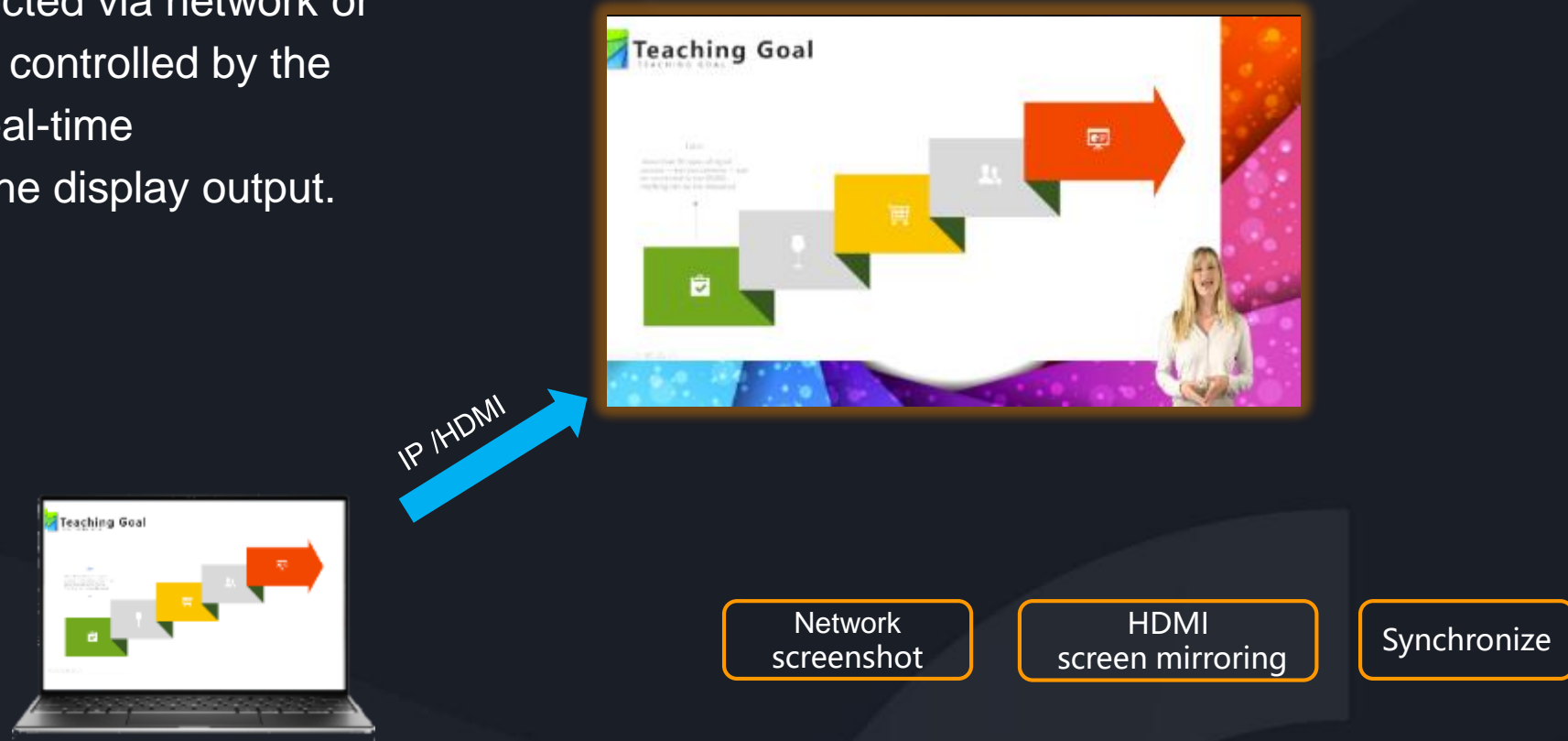
Mobile & Tablet Integration
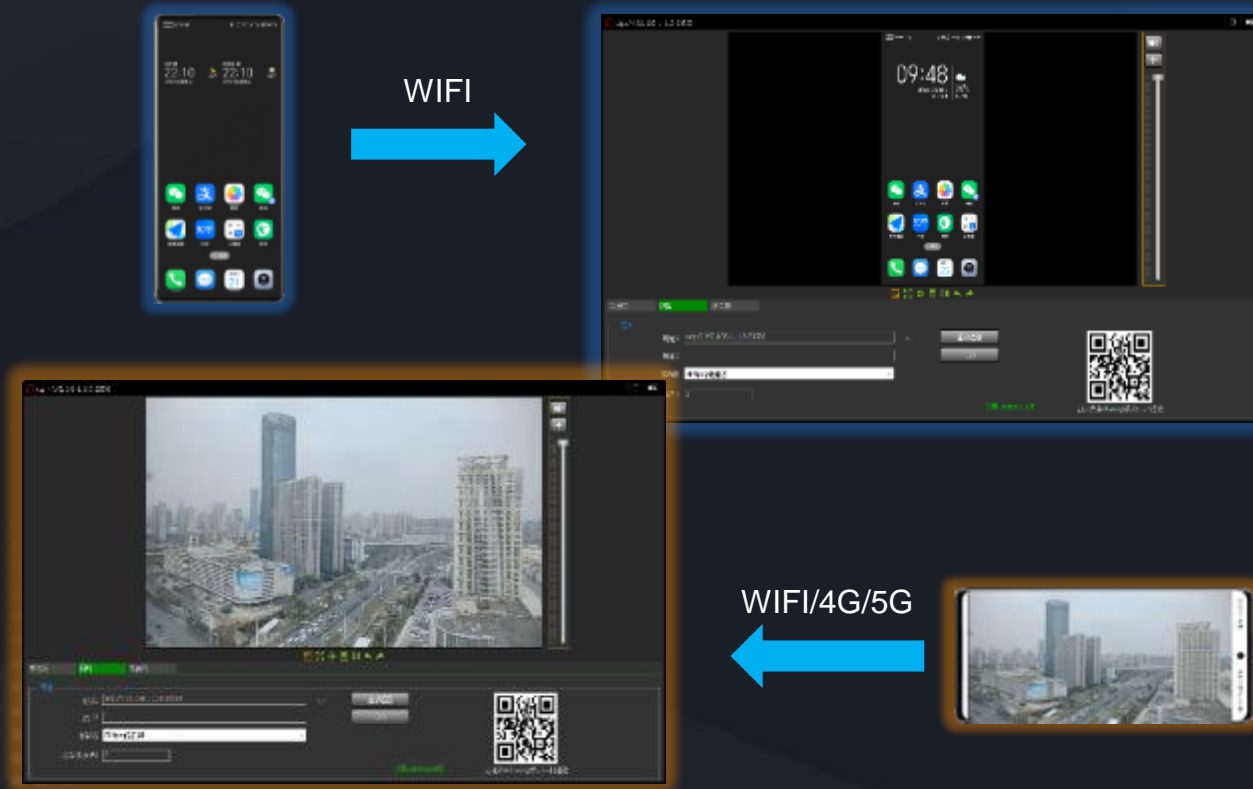
WIFI

WIFI/4G/5G

- **Screen Mirroring:** Connect mobile/tablet screens via Wi-Fi with UDP/SRT protocol support, achieving low latency as low as 300ms. Ideal for app demos or game streaming.
- **Camera Streaming:** Access front/rear cameras via Wi-Fi/4G/5G using UDP/SRT/WebRTC protocols, with latency as low as 300ms (Wi-Fi) or 400ms (4G/5G). Supports both landscape and portrait modes.

Low latency   Multi-protocol   Multi-network

Remote Video Call

4G/5G/WIFI

| Low latency | Bandwidth adaptive | P2P connection |

- Supports remote video calls via 4G/5G/Wi-Fi/wired networks with auto-adapting bandwidth and ultra-low latency (as low as 300ms).
- Direct integration with QQ and WeChat video call

Multi-Venue Access

- Supports primary/secondary venue modes for distributed production, enabling secondary-level broadcasting.
- Primary venues generate invitation codes for secondary venues to join securely.
- Facilitates two-way audio and video transmission.
- Multiple secondary venues can connect simultaneously and be displayed in a multi-screen layout.
- Compatible with remote computers, mobile devices, and tablets.

Short-Form Video Platform Integration

Relay

- Automatically extracts video and image lists from short-form video platform webpages for preview, download, and direct use as live sources.
- Supports rebroadcasting of live streams from platforms like TikTok and Youtube.

Auto-extraction   TikTok live   Youtube live

Desktop Lyrics Capture

So Call me maybe
有空打给我

- Captures on-screen lyrics from music players and overlays them on video feeds for seamless karaoke integration.
- Supports major platforms including QQ Music, NetEase Cloud Music, KuGou, and KuWo.
- Simultaneously captures audio from players via "internal recording" mixing for optimal sound quality.

Speech-to-Text & Text-to-Speech

Text-to-Speech

- Captures audio input (from microphones, cameras, or video files) and converts it to on-screen subtitles overlaid on the video feed.

Speech-to Text
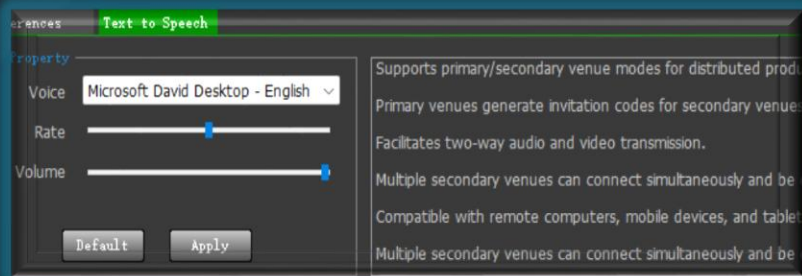
- Generates audio from input text, routed to the mixer as an audio source. Supports multiple voice profiles (male/female) with adjustable speed and volume.
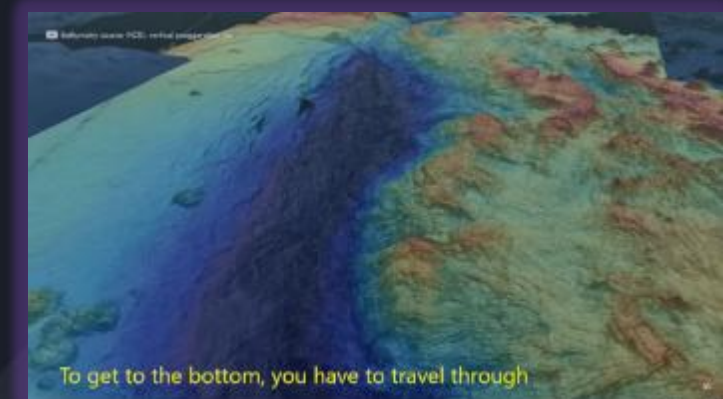
Virtual Set
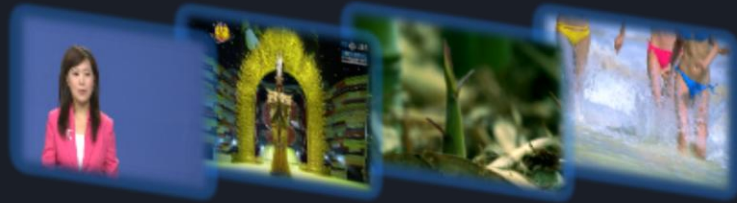
Close-up

Mid-shot

Full-view

- **One-Touch Keying:** Delivers high-quality chroma keying with precise detail preservation.
- **Multi-Camera Movement:** Simulates push/pull/pan/tilt lens effects for dynamic shots.
- **Real-Time Reflections:** Generates live person reflections and environmental refractions.
- **Flexible Keying Modes:** Supports chroma key, luma key, and green-screen-free keying.
- **Multi-Layout & Quick Views:** One-touch full-screen or panoramic scene switching.
- **Scene Editor:** Enables custom virtual set design and creation.

Virtual Set Editor

Source Splitting

- Split & Control: Digitally divides a single camera feed into multiple independent sources for separate switching.
- Virtual Camera Movements: Applies pan, tilt, zoom, and push/pull effects to each split source.
- Multi-Angle Simulation: One camera replicates wide, medium, and close-up shots simultaneously.
- Scenario-Optimized:
  — Ideal for guest interviews: simulate multi-camera angles with one device.
  — Perfect for meetings: stream both overview and close-up views in parallel.

On-Screen Annotation & Transformation

Live Annotation

- Instantly zoom, pan horizontally/vertically, and reposition shots to highlight details. Supports both PVM and PGM windows.

Dynamic Framing

- Draw directly on video feeds using a mouse or stylus. Customize colors, line width, and other parameters. Annotations can be undone or cleared. Compatible with PVM and PGM windows.

Unlimited Layer Overlay

- Add unlimited sublayers to any input source, with free adjustment of size, position, and rotation.
- Includes pre-built templates for one-click layout arrangement.

Unlimited layer	Multi-template	One click arrangement

Unlimited PGM Overlay

Quick Titles

On Click Overlay

Any Position

Multi-type

Full-screen Handwriting

Background Effects

4 Overlay Areas

- **Overlay Zones:** PGM supports 4 video overlay zones and 1 audio overlay zone, allowing simultaneous integration of 4 video and 1 audio source.
- **Dynamic Subtitles:** Add unlimited subtitle layers, including text, images, videos, audio visualizations, and real-time weather displays.
- **Enhanced Atmosphere:** Overlay audio and video ambient effects to enrich production value.
- **Full-Screen Interactivity:** Includes a dedicated layer for full-screen handwriting input.

Graphics & Caption Packaging

- Offers both quick and animated caption styles, supporting global graphics or input source-bound captions.
- Includes lower thirds, clocks, weather displays, animations, tickers, and more.
- Provides templates for news, weather reports, concerts, sports events, and other scenarios.
- Supports NDI-based network graphics, enabling separate operation of broadcasting and caption packaging.

Two Styles

PGM Titles

Source Titles

Multi-Templates
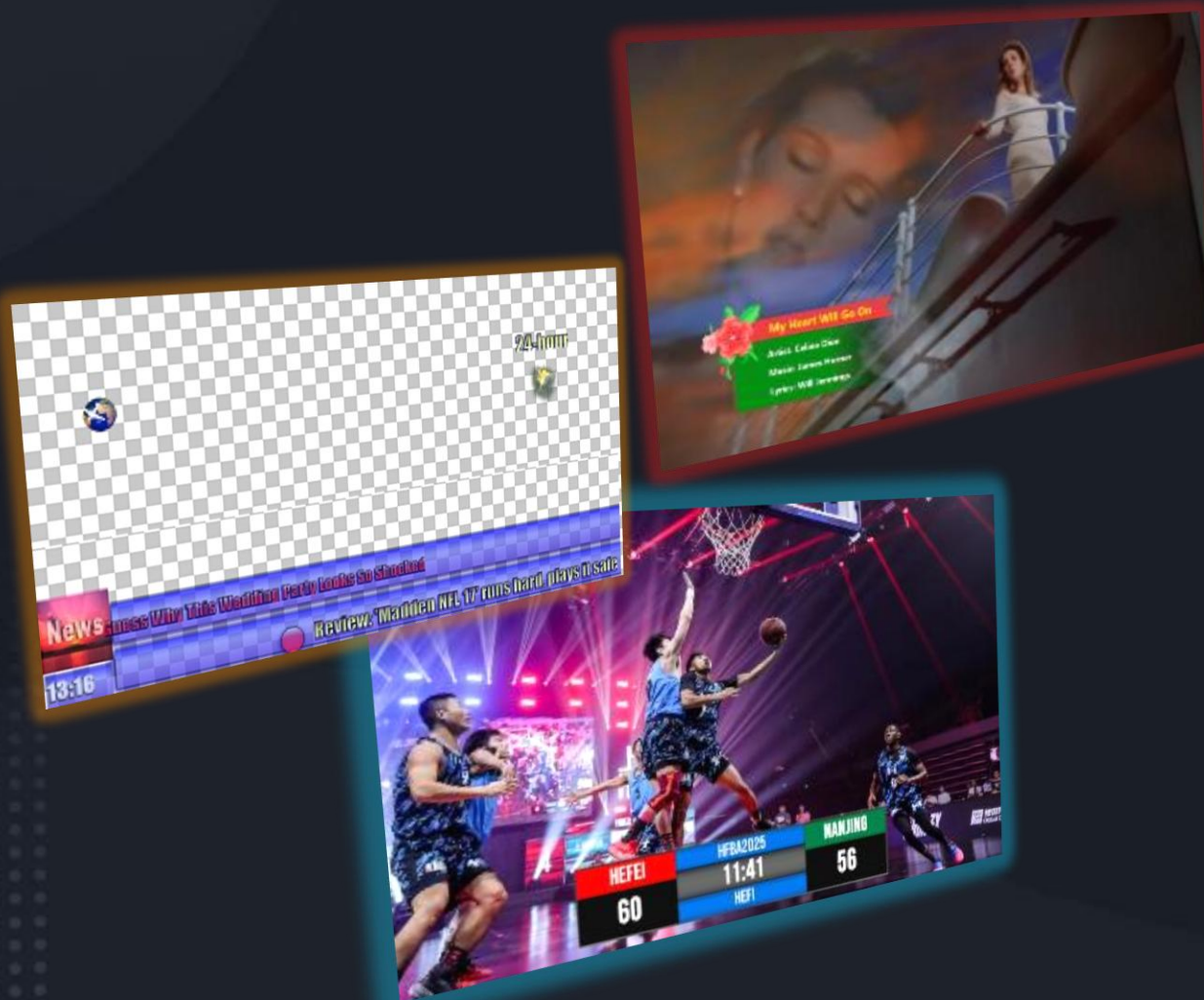
Standalone Graphics & Caption Workstation

- Utilize two DingCaster computer units: one as the primary workstation and the other as a dedicated graphics & caption workstation(or as a dedicated graphics & caption & output workstation). Connected via network or HDMI, this dual-setup allows simultaneous, independent operation of switching and title tasks — minimizing errors, eliminating workflow interference, and enhancing overall broadcast quality.
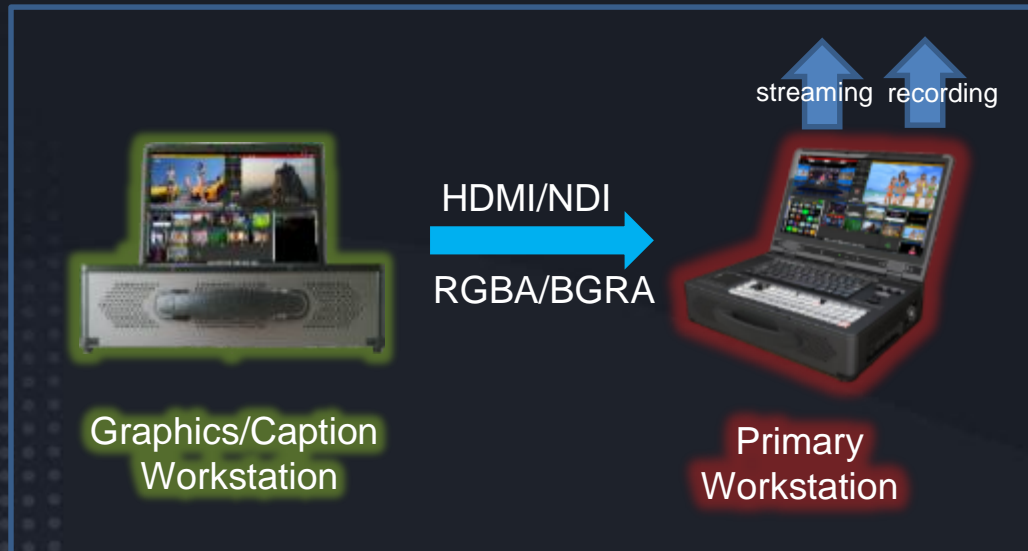
Transition Effects

- Features 70+ built-in transition effects including cuts, fades, zooms, slides, flies, and more.
- Offers 3 quick-access effects for instant switching via double-click.

| Fade In/Out | Zoom | Slide | Fly |

Ambient Effects

- Trigger context-aware ambient effects during live broadcasts to enhance audience engagement.
- Includes audio, video, and 3D sprite effects. Supports user-uploaded custom effects.

Audio Effects

Video Effects

User Custom

Beauty & Color Correction

Color Correction
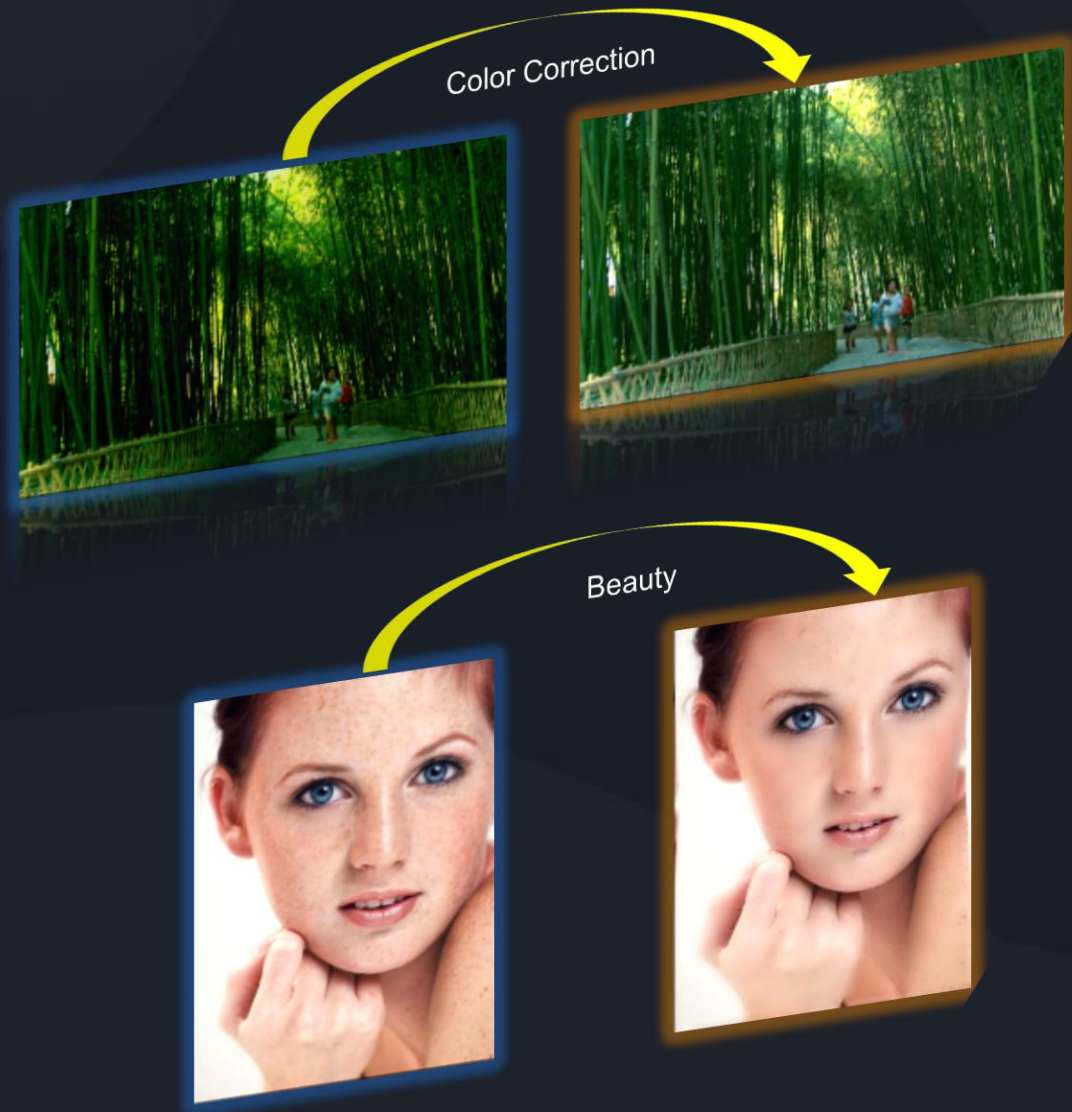
Beauty

- **Multi-Channel Color Correction:** Simultaneously adjust parameters including red/green/blue channels, saturation, and color range.
- **Real-Time Beauty Enhancement:** Apply skin smoothing, brightening, face slimming, and eye enlarging effects across multiple channels.

| Multi-Color Correction | Multi-Beauty | AI Facial Recognition |

Trigger
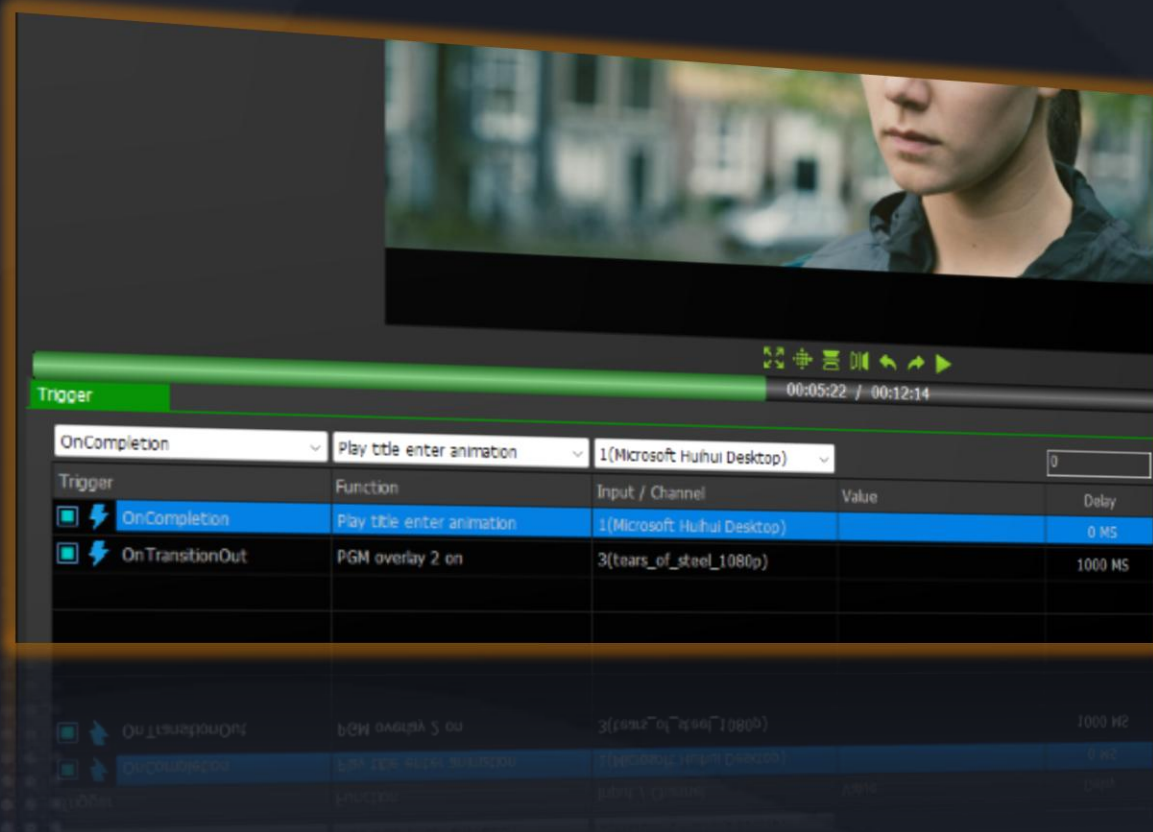
- Each channel supports multiple triggers for automated operations.
- Supports multiple events and triggers.
- Supports delayed triggering.

| Multi-triggers | Multi-events | Delay triggering |

Multi-Platform Streaming

Streaming

Protocols

RTMP

SRT **UDP**

RTC

- **Simultaneous Streaming:** Stream to multiple platforms concurrently with single-encode efficiency.
- **Protocol Support:** Compatible with RTMP, SRT, RTSP, UDP, WebRTC, and other streaming protocols.
- **Resource Optimization:** Sharing one encoder for both streaming and recording, with hardware encoding support.
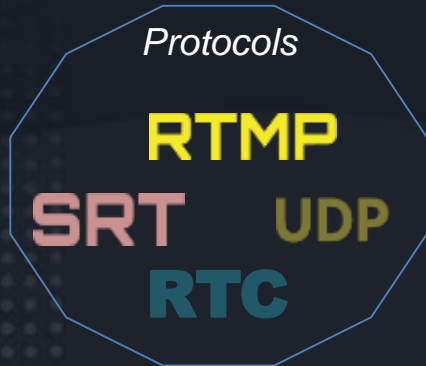
| Multi-Platform | Multi-Protocol | Shared Encoder | Hardware Encoding |

Multi-Channel Recording

- **Simultaneous Recording:** Capture both PGM output and individual input sources in multiple parallel channels.
- **Flexible Encoding:** Supports various encoding formats with hardware acceleration and segmented storage options.
- **Resource Efficiency:** Shares encoders between recording and streaming to optimize system performance.

| PGM Recording | Source Recording | Multi-Files Save | Shared Emcoder |

Screen Casting
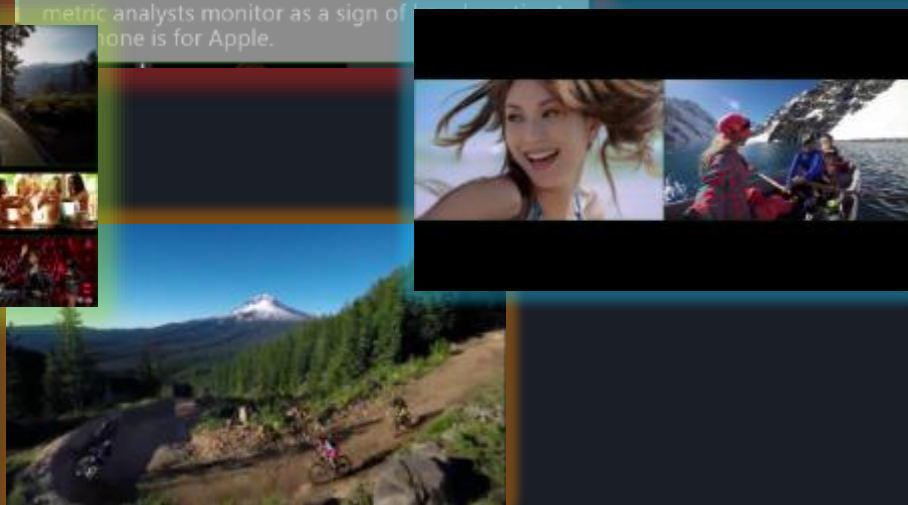
- Supports multi-GPU and multi-port output via DVI/HDMI/DP interfaces
- Enables split-screen layouts with synchronized audio
- Includes professional teleprompter functionality.

Unlimited Casting

Multi-Layout

With Audio

PGM

PVM

PVM PGM

PVM PGM

Teleprompter

Virtual Output

My Virtual Video

Virtual Audio Cable

- Delivers produced video and audio to third-party applications via virtual camera and virtual audio devices, compatible with Tencent Meeting,Zoom Mettings, Youtube, Tiktok and WeChat Channels.
- Supports both landscape and portrait output modes.
- Allows simultaneous connections from multiple applications to the virtual devices.

Virtual Camera

Virtual Audio

Multi-app Shared

Independent Source Output

- Each input source can be output individually alongside the PGM signal.
- Supports multiple output methods including recording, streaming, screen casting, and NDI.
- Allows customizable resolution settings for recordings.
- Multiple sources can be output simultaneously, with the number of concurrent streams limited only by hardware resources.

Multi-Methods   Multi-Channels

Teleprompter Integration

- Supports horizontal and vertical mirroring modes, compatible with external monitors or traditional teleprompter devices.
- Adjustable scrolling speed and font customization.
- Features masking settings to help hosts focus on current content by reducing visual distractions.
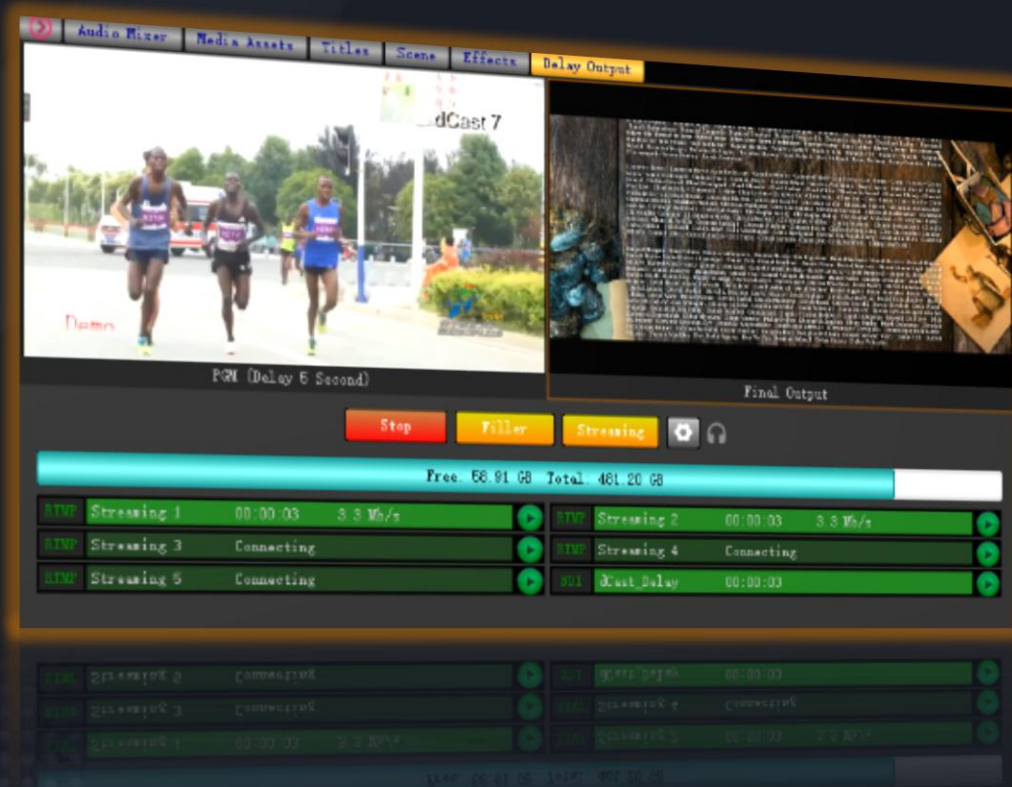
| Horizontal Mirroring | Vertical Mirroring | Variable Speed | Variable Font | Masking |

Delayed Output

- Adopts hard disk caching; the delay duration is only limited by disk space.
- Supports custom filler channels and one-click switch to filler content.
- Separate preview of the delay window and final output window simplifies filler switching operations.
- Delayed output supports multi-channel streaming and NDI.

| Unlimited duration | Multi-preview | One-click filler | Multi-streaming | NDI delayed |

Instant Replay

- Supports up to 4 cameras/input sources for playback.
- Multi-window preview with one-click switch between live preview and playback preview.
- Frame-accurate in and out point setting.
- Stepless adjustable playback speed.
- Supports multi-camera sequential playback or simultaneous multi-view playback.
- Multiple transition effects available for playback, supporting both image and video transition effects.

Up to 4 cameras	Multi-preview	In-out	Stepless speed	Multi-transition

Audio Mixer

- Multiple input audio sources can be freely mixed for output. Each channel supports exclusive or mixed output modes.
- Adjust levels separately for input sources, PGM main output, extended audio outputs, and monitor channels.
- Audio can follow video switching or operate independently.
- Connect external hardware mixers as exclusive primary audio sources.
- Apply noise suppression, gain adjustment, visualization, channel selection/merging, and audio-video synchronization calibration to input sources.

Multi-Mixing | PGM Monitor | Source Monitor | Input Adjust | Output Adjust

Remote Control

- Operate switching, recording, streaming, and more via any web browser.
- Real-time synchronization of broadcast status to the control interface.
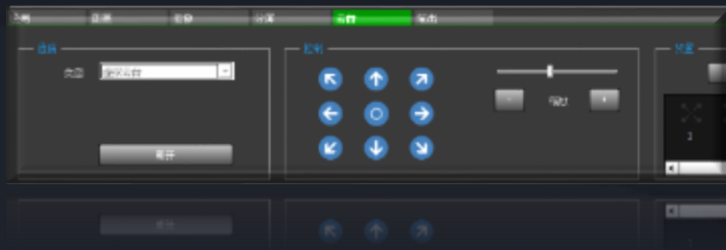- Compatible with mobile, tablet, or computer control.

WEB Control

QR Code

Multi-Device

PTZ & Virtual PTZ Control

- Supports Sony VISCA over IP, VISCA UDP, and other PTZ control protocols.
- Allows access to camera menus, and definition/recall of presets.
- Virtual PTZ Function: Enables pan, tilt, and zoom operations on any input source without physical PTZ hardware.
- Compatible with MIDI keyboards, joysticks, and game controllers for intuitive operation.

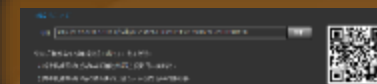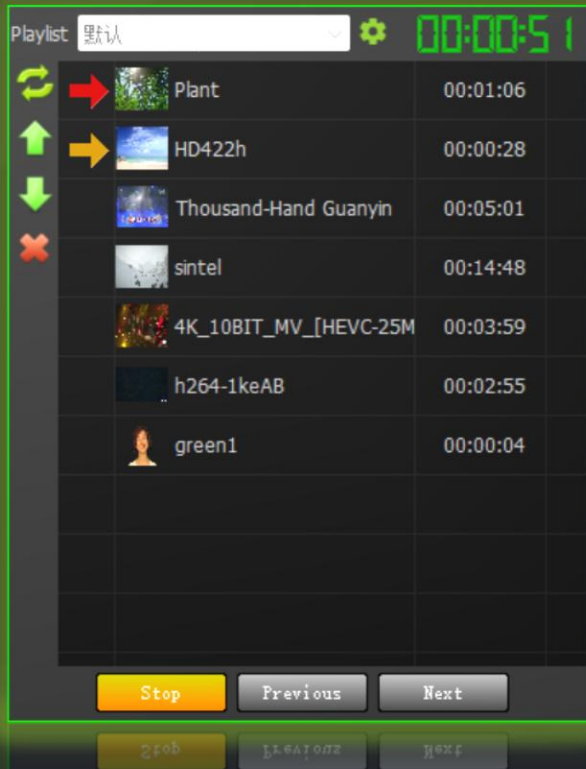| Multi-Protocol | 16 Presets | Menu Support | Virtual PTZ |

Tally Lights

Arduino Tally Lights

- **Arduino Tally Lights:** Support both serial port and network connectivity.

Web Tally Lights

- **Web Tally Lights:** Connect via QR code scanning, compatible with mobile devices, tablets, Raspberry Pi, and other portable devices to serve as tally lights.

Auto-Switching

- Automatically switches input sources based on playlist instructions, ideal for studios, campus TV stations, and cultural/tourism slow broadcasts.
- Supports timed, sequential, manual, and other playback modes.
- Validates program legality and skips items upon network interruption.
- Compatible with multiple playlists.

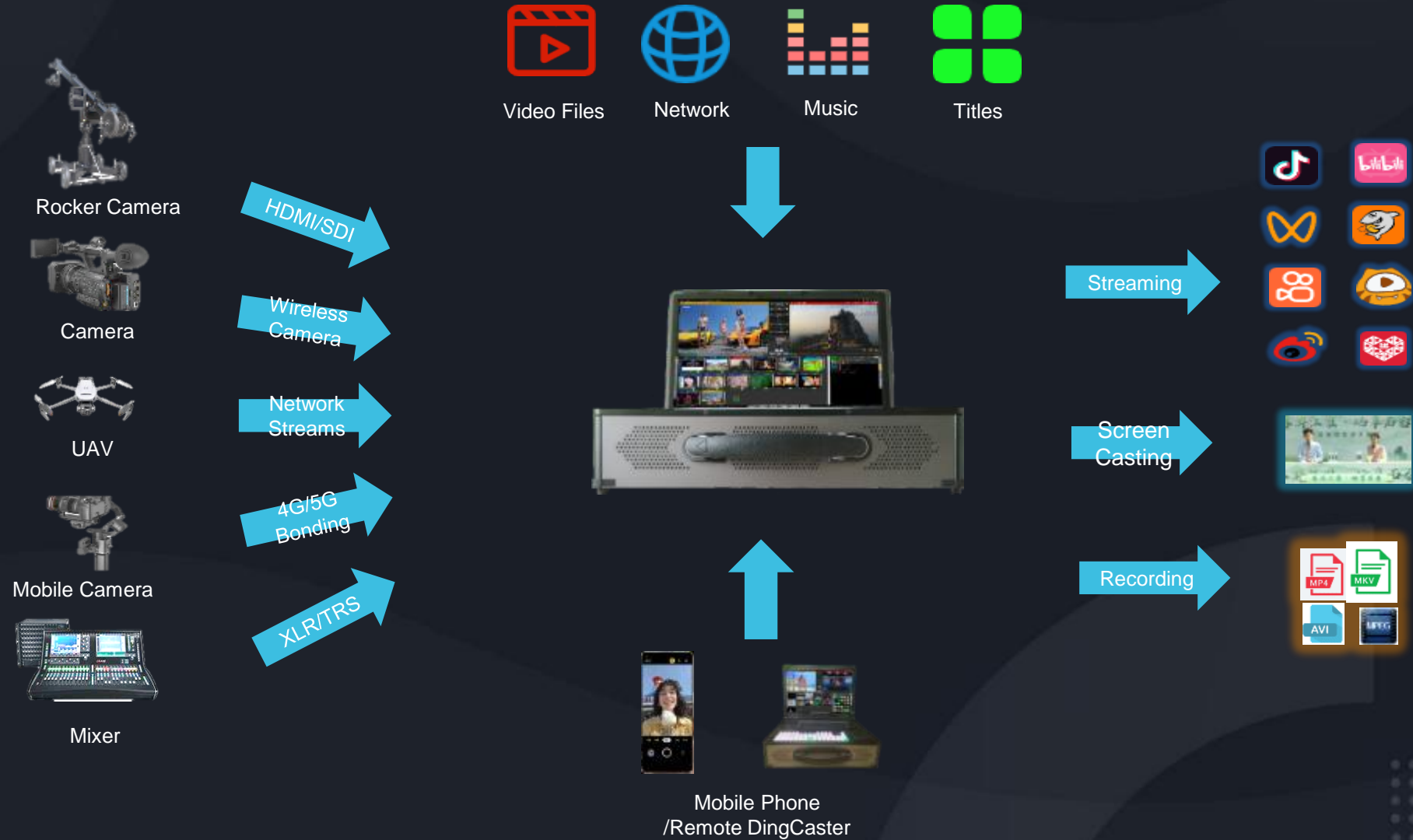| Slow Broadcasting | Unattended | Looping | Safe |

Hot-Swap Support

- **Hot-Swap Devices:** Microphones, speakers, displays, broadcast keyboards, and Tally lights can be connected/disconnected during operation without software restart. Status synchronizes automatically.
- **USB Plug-and-Play:** Cameras and microphones are immediately recognized when connected and removed from the source list when unplugged.
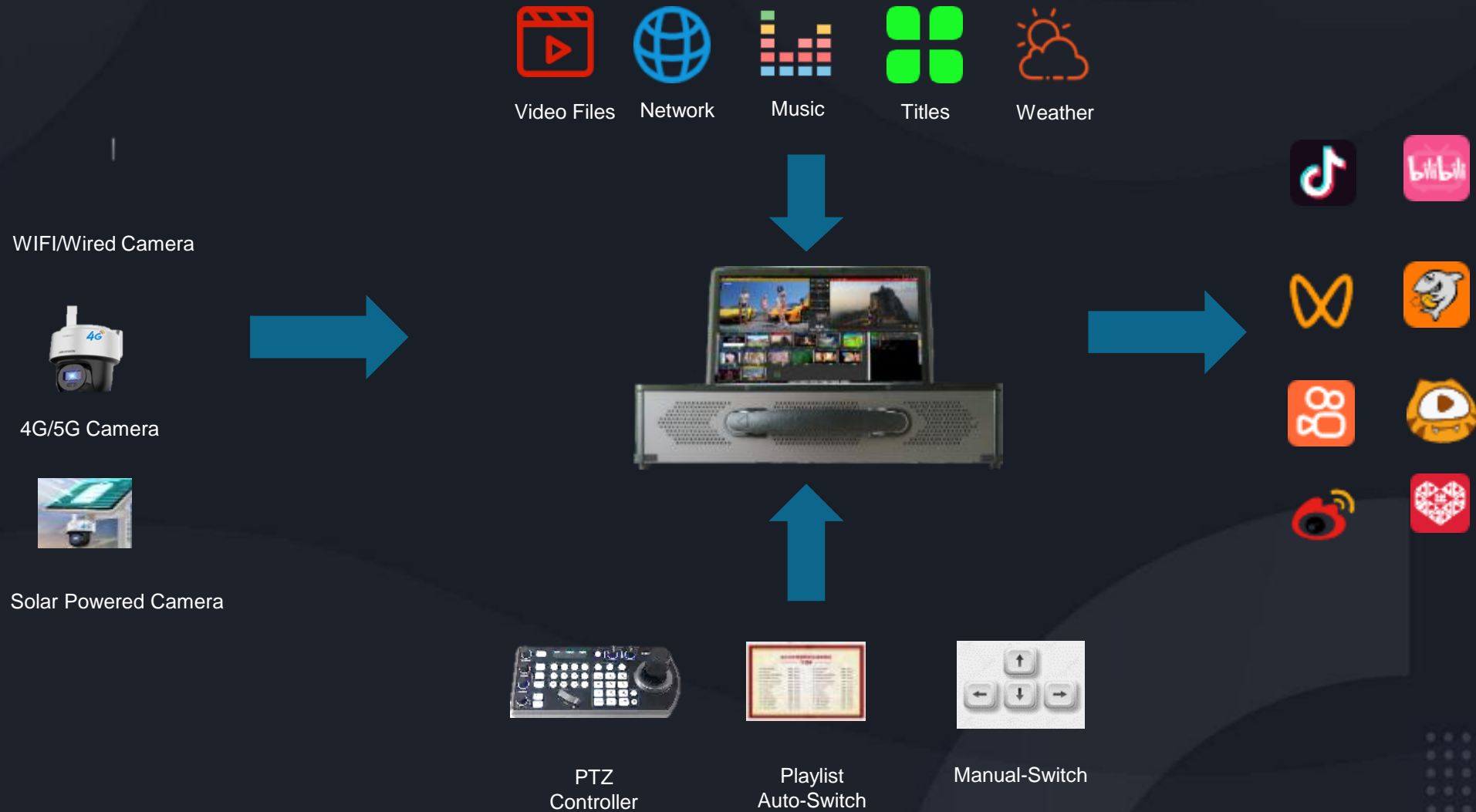
Multi-Layout Interface

- Supports 5 pre-configured interface layouts (including landscape and portrait modes), each tailored for specific scenarios. Switch on demand to optimize workflow efficiency.
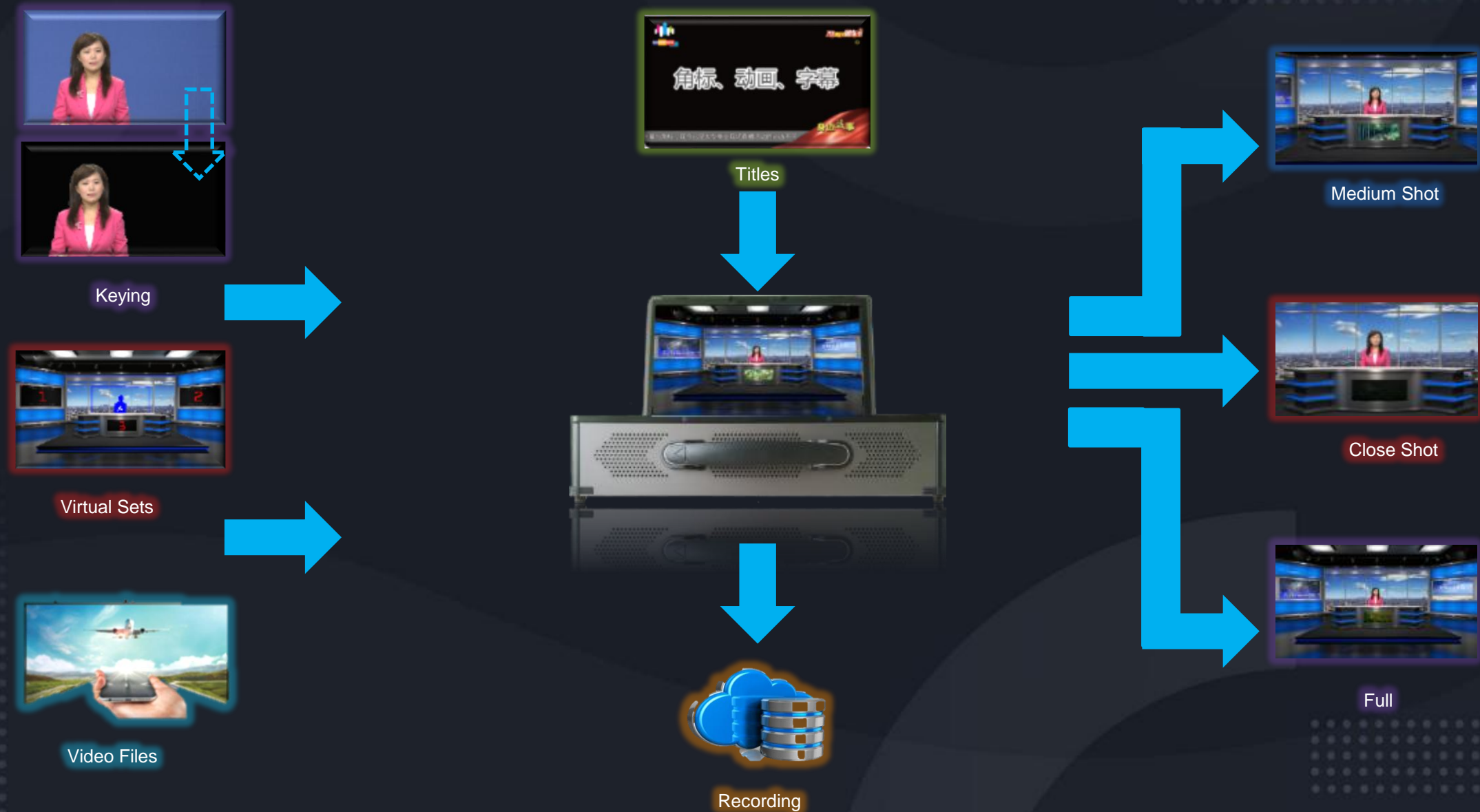
Application Scenario – Live Event Coverage

Video Files   Network   Music   Titles

Rocker Camera

HDMI/SDI

Camera

Wireless Camera

UAV

Network Streams

4G/5G Bonding

Mobile Camera

XLR/TRS

Mixer

Streaming

Screen Casting

Recording

Mobile Phone /Remote DingCaster

Application Scenario – Campus TV Station

Application Scenario – Live Production

DingVideo Tech.

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mail： support@ddcast.com