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VITAILOY

PIXEL;GATE | 像素门

All-in-One AI-Powered Digital Media Production Platform

PIXEL;GATE is a portable, all-in-one live switcher that integrates video switching, recording, streaming, and AI automation. It features a detachable touchscreen, a durable aluminum body, 5×4K HDMI inputs, support for 8 IP streams(RTMP,NDI and more), and 3×6 programmable mechanical keys. With its built-in AI Director and voice control, solo users can easily manage multi-camera, professional-grade productions. Perfect for studios, education, worship, conferences, e-commerce, and content creators.

18-Channel Binding · Effortless Switching

Three GROUPs×6 Keys for Streamlined PGM/PVW Control

- A/B/C Groups × 6 Keys Map up to 18 sources. Control PGM/PVW independently. Switching instantly.
- Smart Presets & Custom Modes adapts from team workflows to event production. Define your own in *Settings.

4-Way Simulcast · Direct to All Platforms

Go live on YouTube, Facebook, TikTok, and Bilibili at the same time by pushing four independent streams - no external encoders required. Streamline your workflow and maximize your reach wtih ease.

Y-01 USB AI MIC PHONE DC 12V LAN MIC/LINE 1 2 TALLY USB 3.0 UVC PGM PVW OUT 1 2 IN 3 4 5

True 4K On Every Channel
5×4K HDMI inputs + 4K HDMI outputs

Simultaneously integrate network streams 8* (RTMP/RTSP/UDP/SRT/HTTP/NDI) and 5* local HDMI signals. Our superior processing delivers pristine image quality with minimal latency, allowing you to confidently monitor on large screens.

Multi-Channel ISO Recording
Record PGM and all ISO inputs

Record the program output along with all inputs during a live event. Preserve a complete set of source files for full flexibility in post-production, ensuring no pivotal moment is ever lost.

Graphics & Media Integration

- Picture-in-Picture Multi-Window Layouts.
- Images, audio, and video Playback.
- One-click Green Screen chroma key with background overlay.
- Import PNG nametags&Logos, adjust in real-time.

Safety Delay for Live Stream

Set a broadcast delay as a safety net for important events, preventing unexpected content from going out live.

Detachable 10.1" HD 600nits Touchscreen

This all-in-one monitoring and control solution features a detachable screen for mobile operation. Its unified interface clearly displays multi-view layouts, audio levels, and recording/streaming status. With a 600-nit high-brightness IPS panel providing wide viewing angles and professional color accuracy, it ensures precise monitoring and smooth control in any environment, indoors or outdoors.
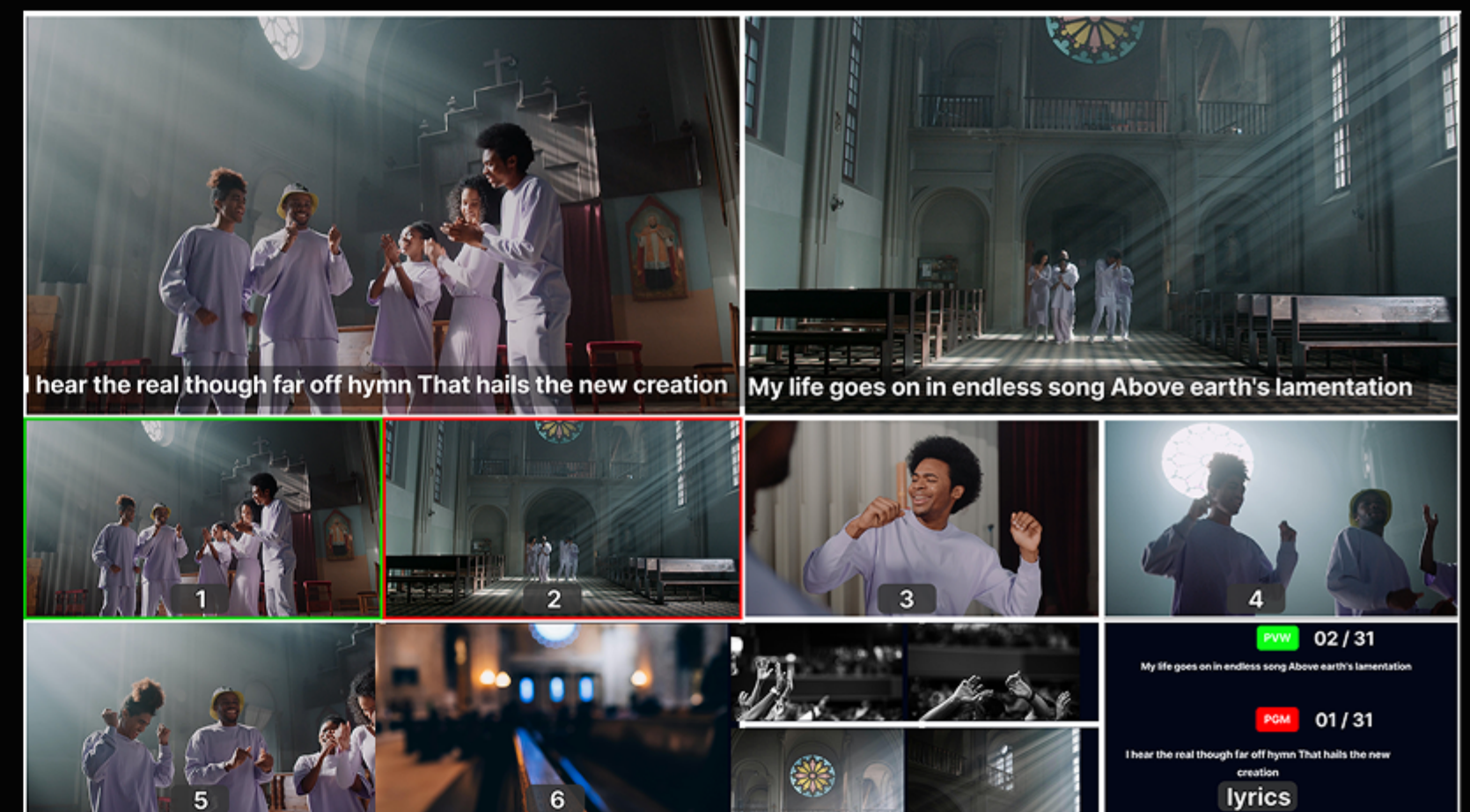
PIXEL;GATE

Live Scoreboard
Real-Time Updates

A plug-and-play tool for school sports and entertainment streams. It allows manual or automatic score updates over the network with real-time on-screen display.

Subtitles/Lyrics: One-Click
Import & Direct Control

- Navigate lines manually using tactile keys or touch controls （previous/next, show, hide).
- Save preset profiles for font size, color and positioning. You can also assign show/hide or next-line functions to customizable shortcuts.
- Supports diverse scenarios, from classroom presentations and worship lyrics to event scripts, delivering smooth caption management across all use cases.
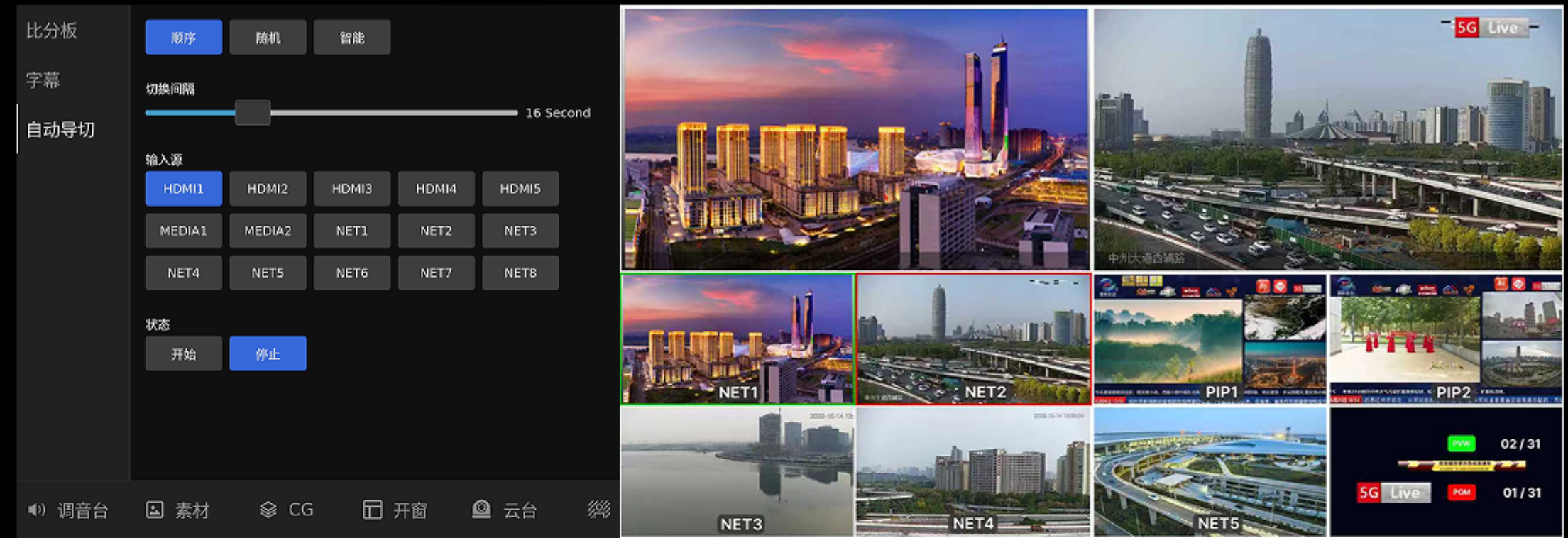

One-Tap Vertical Switch ·
Ready for E-Commerce

Designed for vertical 9:16 streams with main view, product close-ups, and 16:9 source vertical cut - ideal for live sales on YouTube, TikTok, and more.
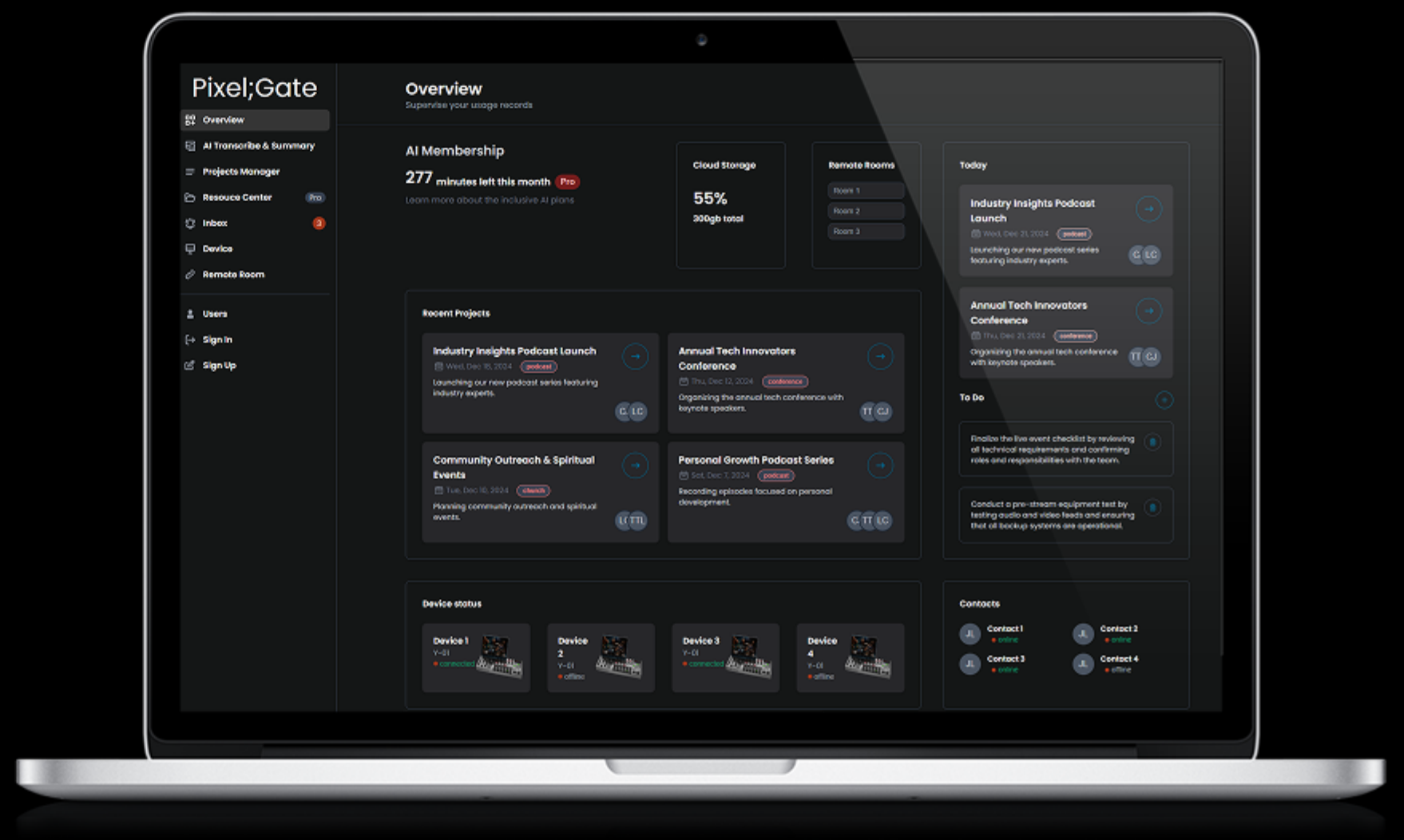
Slow Live Mode
Automated Scenic Shots

The system automatically switches between multiple camera views at preset intervals. Ideal for tourism and nature scenes, it delivers a relaxing live stream with no operator needed.

H5 Web Control via Mobile
Direct mobile control via AP hotspot/LAN

Control every core function - from input switching and streaming to graphics, picture-in-picture, and multi-view monitoring - right from your mobile device. Simplify your workflow and boost team collaboration.
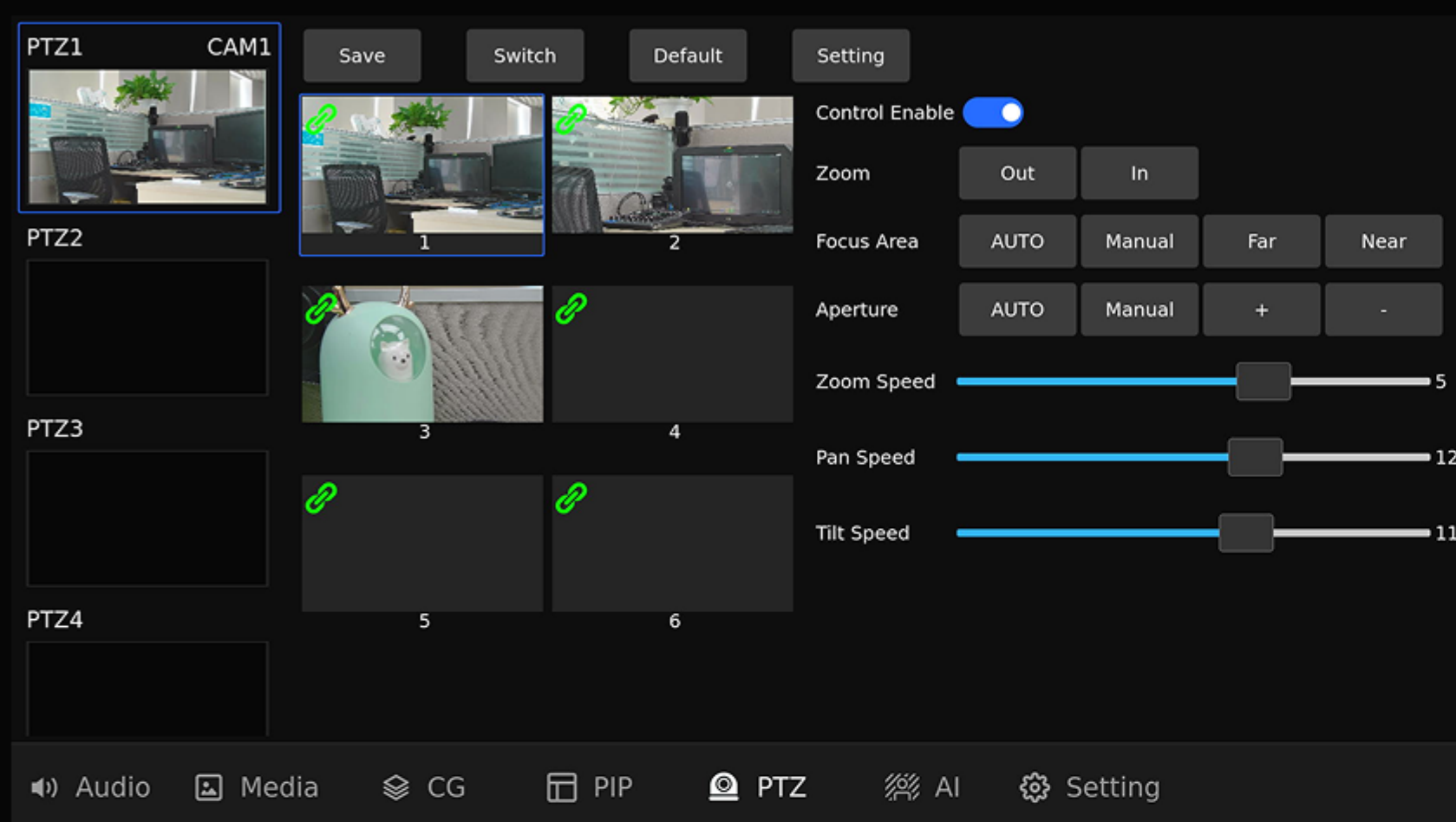
AI Cloud Collaboration
One-Click Scene Setup·Efficient Teamwork

Upload and manage templates, subtitles, media, and key mappings through voice commands or browser; supports multi-user collaboration and one-click remote sync. Instantly access preconfigured modes such as "Conference" or "Interview" without on-site setup.

LUT Filters · Instant Style

Apply cinematic color grading in real time. Choose from built-in presets (Cinematic/B&W/Interior) and switch between warm/cool tones with a subgke tap - perfect for matching diverse content styles.
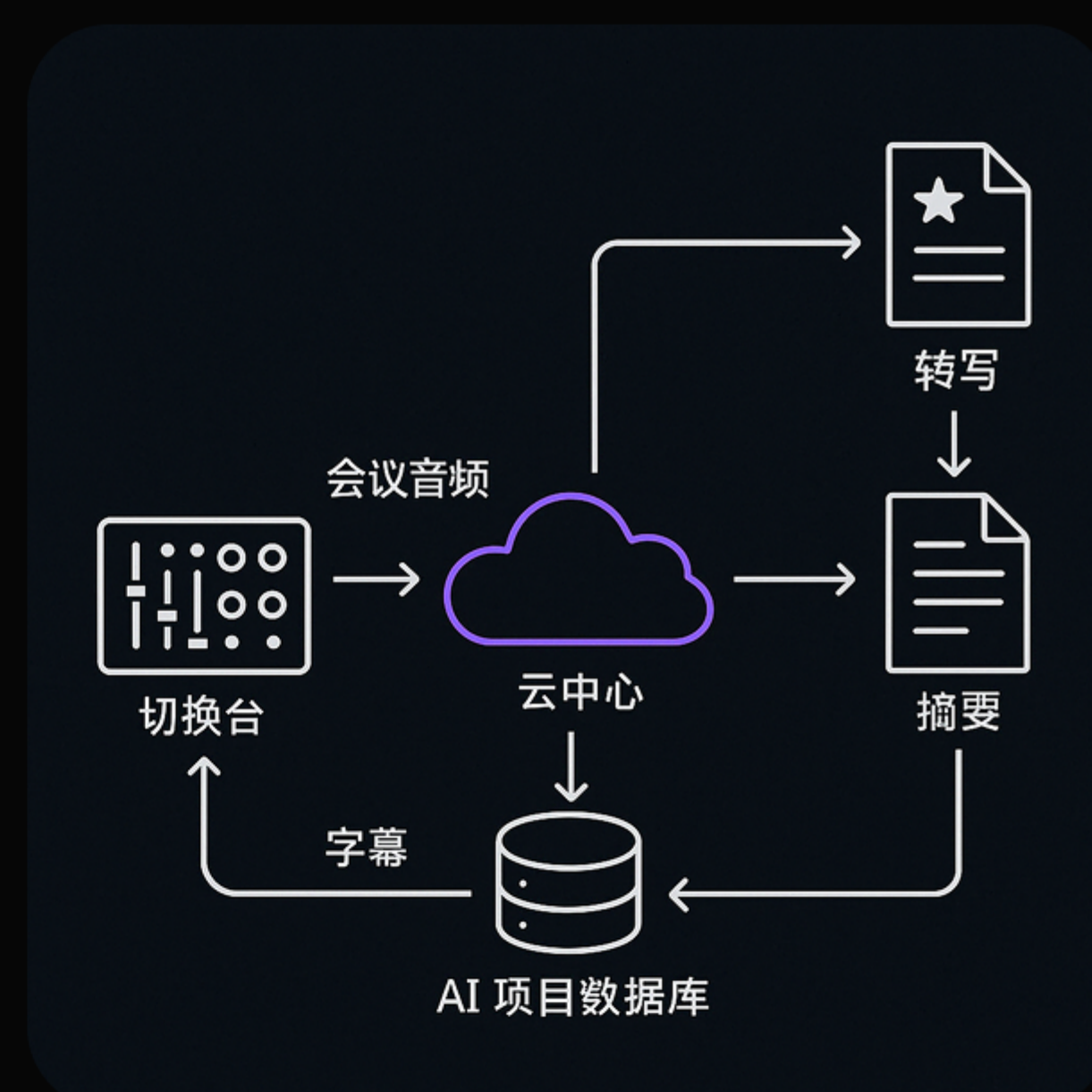
Voice Command & PTZ Controls

Voice-activated camera switching

Supports 4 PTZ camera controls by VISCA over IP and NDI HX3 with 6 presets positions each. Control 20+ preset movements via AI voice or touch, and adjust zoom, focus, and speed with precision. Operate four smart cameras solo to cover wide, main, and close-up shots for complete live production.

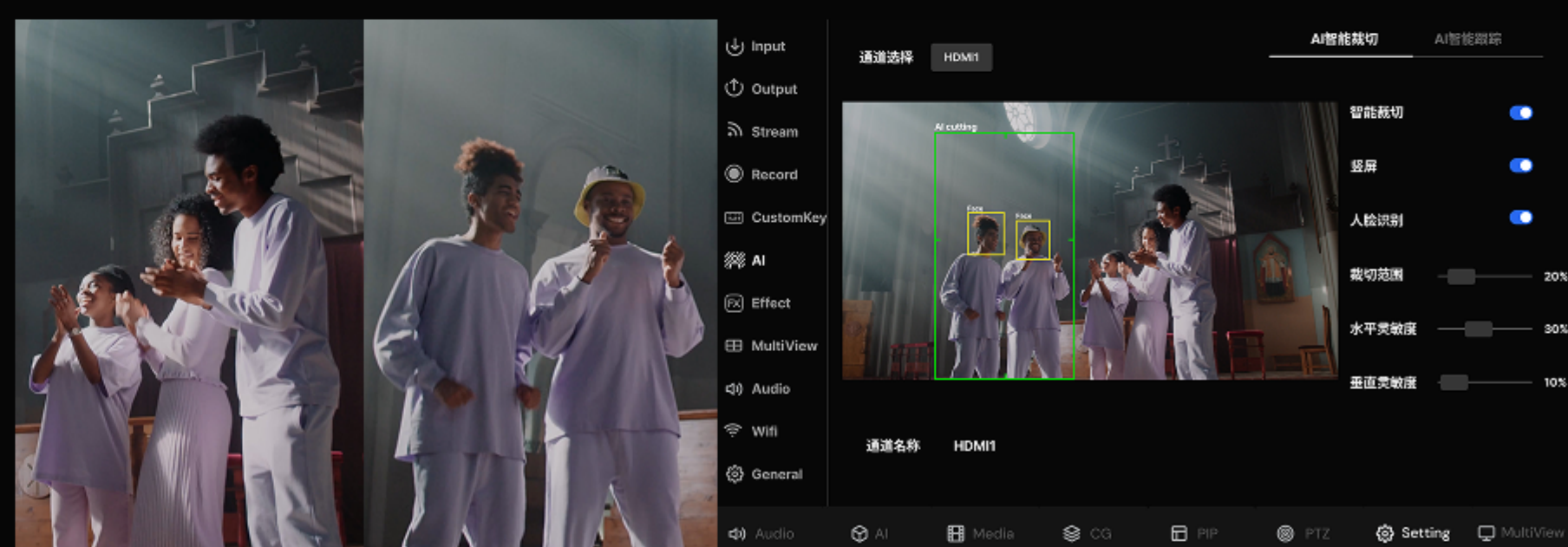## AI-Powered Transcription and Smart Summarization

Instant transcript after livestream, boost post-production efficiency

- Audio uploaded to the Pixel AI Cloud is automatically transcribed with speaker voiceprint separation and highly accurate multilingual recognition.
- The transcribed content is then semantically analyzed using language models and transfered to formats such as Meeting Notes, Speech summaries, Interview Highlights, or other thematic formats.

AI Director · Audio-visual synced auto switching(beta)

- Smart Camera Switching: Detects voice, lip movement & gestures - automatically switches to the active speaker for smoother foundtables, interviews, and podcasts.
- Auto Framing & Tracking: Tracks and frames people reliably, remaining stable for both single and multiple speakers.

Pixel;Gate Specifications

Video Inputs

HDMI Video Inputs	5 * HDMI Type-A 2.0
Video Inputs Standards	3840*2160P : (HDMI1) 60, 59.94, 50, 30, 29.97, 25, 23.98 (HDMI2-5) 30, 29.97, 25 1920*1080P : 60, 59.94, 50, 30, 29.97, 25, 23.98 1920*1080i : 50
NET Inputs	3840*2160P : 60, 50, (5*)30 10 * 1920*1080P : 60, 50, 30, 25
Streaming Protocol	RTMP, RTSP, UDP, SRT, HTTPS, M3U8, HLS, NDI HX3
Local Media Inputs	Video , Audio, Picture
Media Inputs Format	MP4, MOV, MKV, MXF, MPEG-TS, MP3, WAV, PNG, TGA, BMP, JPEG
Video Sampling	4:2:2 (Y/Pb/Pr)
Color Precision	8bit
Color Space	Rec 709

Video Outputs

HDMI	2 * type-A （HDMI 2.0）PGM, Multiview
Video Outputs Standards	3840*2160P : 30 1920*1080P : 60, 50, 30, 25 1920*1080i : 50
UVC Video Ouputs	1 * USB Type-C 3.1 Gen1
UVC Outputs Standards	1920*1080 : 60, 50, 30 3840*2160P : 30
UVC Outputs Formats	MJPEG (Motion-JPEG), H264

Audio Inputs

LINE IN	2 * 3.5mm configurable On/Off/AFV individual controls
AI MIC/MIC IN	1 * 3.5mm configurable On/Off/AFV individual controls
HDMI Embeded Audio	5 * HDMI configurable On/Off/AFV individual controls

Audio Outputs

PHONE Monitoring	1 * 3.5mm
HDMI Embeded Audio	2 * HDMI

TALLY　（&USB Capable）

DB15	10 * 5V Outputs

Streaming

Streaming Protocol	RTMP, RTSP, UDP, SRT, HTTPS, M3U8, NDI HX3
Audio Outputs Format	AAC 24-bit 48KHz
Video Outputs Format	H.264
Outputs Standards	4 * 3840*2160P : 30 4 * 1920*1080: 60, 50, 30
Thirdparty Streaming Platform	Facebook, Twitch, YouTube, Twitter, Wechat, TikTok Bilibili, DouYin, Custom

Record

Recording File Format	mp4, wav
Audio Recording	AAC 24-bit 48KHz
ISO Video Recording (5 * Channel)	3840*2160P : 30（2 * Channel） 5 * 1920*1080: 60, 50, 30
Direct Recording Video and Audio	Network Recording, USB Recording, Internal Recording

Multiview

MultiView Layouts	16, 12, 10, 7, 4, 1 Customizable Layouts
MultiView Video Standard	1920*1080: 30
MultiView Source	PVW, PGM, HDMI , UVC, MEDIA, STREAM, PIP , CG
MultiView Custom	Streaming Status, Recording Status, Audio Meters

Display

Display Resolution	1920 * 1200
Display Element	10.1" TFT-LCD
Display Colors	16.7M
Contrast Ratio	900:1
Response Time	30ms
Brightness	500nit

Others

Power	12V / 3A
Max Consumption	36W
Operating Temperature	0°C~40°C
Operating Ambient Humidity	10%~80%
Net Weight	2 kg
Gross Weight	3 kg
Product Dimensions	380mm * 140mm * 35mm