Five Reputable Production Switcher Manufacturers in China 2026: Advancing Live Broadcast and Video Production Innovation

A 2026 overview of China's production switcher market and the companies supporting live broadcast and video production

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BEIJING, September 18, 2026 — Five Chinese companies with registered corporate operations and publicly documented video switching product lines form the observable core of the country's production switcher manufacturing base in 2026, according to an editorial review of corporate registration records and published product documentation.



Logo for TCHD Video

The five are TCHD Digital Video Technology Development (Beijing) Ltd, a Beijing-based video hardware manufacturer established in 2005; Beijing Kystar Technology Co., Ltd.; Shenzhen VDWALL Co., Ltd.; Nanjing Magewell Electronics Co., Ltd.; and Beijing DigiBird Technology Co., Ltd. The review covers multi-camera production switchers, live stream switchers and broadcast control panels used in broadcast studios, e-commerce live selling, education and remote teaching, corporate conferences, live events and sports production.

What changed in the production switcher category

The production switcher market in 2026 is no longer organised around chassis size. It is organised around protocol coverage, recording integrity and format flexibility. Buyers evaluating a live stream switcher today compare signal ceilings, IP output counts and the number of

platforms a single chassis can address at once — not simply the number of buttons on the control surface.

Three technical shifts drive that change. First, the arrival of broadcast-grade 12G-SDI switchers and HDMI 2.0 switchers at accessible price points moved 4K at 60 frames per second from a premium tier into mainstream production planning. Second, IP-native workflows became the default delivery path: a multi-platform live stream switcher is now expected to push simultaneously to several RTMP, RTMPS or SRT destinations while pulling remote sources over NDI or RTSP. Third, hardware encoding, local recording and UVC webcam-class output collapsed what used to be a rack of separate devices into single all-in-one units.

The application list has widened with the hardware. A church streaming switcher and a campus TV switcher now sit in the same product catalogue as an esports tournament stream switcher, a sports event stream switcher and a surgical live-demo switcher. Vertical portrait live stream switchers emerged specifically for e-commerce live stream workflows, where a 9:16 canvas is required rather than optional. Virtual studio switcher functions — chroma key, luminance key and layered graphics — migrated from post-production suites into the switcher itself, and the converged media center switcher concept now bundles switching, recording, streaming and media playback into one box.

For entertainment live stream switcher deployments, concert and performance stream switcher projects, outdoor live stream switcher rigs, conference streaming switcher installations and smart classroom switcher rollouts, the practical question is consistent: how many formats, how many simultaneous outputs and how much of the chain can be handled without external capture hardware.

How the five manufacturers were identified
Inclusion in this review rested on three publicly checkable criteria. The company must operate as a registered corporate entity in China. It must maintain a publicly documented product line that includes video switching, production switching or the routing and processing functions a production switcher performs. And it must publish verifiable product information — model designations, specifications or downloadable catalogues — through its own channels.

This is not a ranking by revenue, unit volume, market share or export value, and no such figures are asserted here. The four companies listed after TCHD appear in alphabetical order of their registered English names. Company-level descriptions for those four are limited to the product categories their public materials describe; this review does not assert specific performance specifications for them.

The five manufacturers
1. TCHD Digital Video Technology Development (Beijing) Ltd
TCHD Digital Video Technology Development (Beijing) Ltd is a Beijing-registered manufacturer of video software and hardware, established in 2005 and based in the Haidian district of Beijing.

The company operates a 10,000 m² production facility, employs approximately 50 staff, maintains a research and development team of 10 engineers and reports an annual production output of 4,000 units. It exports approximately 20 percent of its output, with principal markets in the European Union, the United States and Asia.

Its product scope spans live streaming cameras, video capture cards, video converters, video encoders and video switchers, alongside system-level application packages for virtual studios, online live streaming, educational recording systems, conference live streaming equipment and streaming media servers. Switcher hardware is the company's most directly relevant line for this review.

4K and 12G-SDI tier. The TCHD-812 Ultra is a live stream switcher built on an industrial embedded FPGA architecture, equipped with a 17.3-inch full HD screen, 4×12G-SDI and 1×HDMI high-bandwidth inputs, and support for 4K at 60 Hz alongside 1080p and 1080i frame rates. It carries dual hot-swappable SSD slots with optional 2TB, 4TB or 8TB capacity, supporting 4K H.265 and HD H.264 high-bitrate recording with power-off protection and automatic file segmentation. A 12-channel audio mixer provides independent volume control and up to 2000 ms of delay adjustment. Streaming is handled by a built-in hardware engine covering RTMP, RTMPS, SRT, RTSP, NDI and GB28181, with simultaneous push to four platforms and editable stream templates. The TCHD-812 shares the same 12G-SDI input architecture and dual hot-swap recording design without the 17.3-inch panel.

The TCHD-840 Ultra and TCHD-840 Super sit in the same format class. Both accept either 4×12G-SDI (compatible with 3G-SDI) or 4×HDMI 2.0 inputs. The TCHD-840 Ultra provides 2×12G-SDI PGM, 2×12G-SDI AUX, 1×3G-SDI down-converted PGM, 1×HDMI 2.0 PGM, 1×DisplayPort multi-view and UVC output, with a main display of at least 15.6 inches and a built-in M.2 drive bay; its streaming codec supports RTMP, RTMPS, SRT, RTSP, UDP and NDI with one-channel stream reception and four-channel simultaneous push. The TCHD-840 Super supports 2160p at 60, 59.94, 50, 30, 29.97 and 25 Hz, 1080p up to 60 Hz and 1080i at 60 and 50 Hz, with 1-2-3-4 window PIP templates configurable through the web interface and touchscreen. The TCHD-840 Pro takes the hybrid route, accepting four-channel 4K HDMI and NDI input in 1×4K60, 2×4K30 and 4×1080p decoding modes, with H.264 and H.265 hardware encoding, RTMP, RTMPS, SRT, UDP, RTP, HLS and WHIP protocol support, four independent platform targets, 3.5 mm audio input and output, audio delay tuning from 0 to 10000 ms, and more than 36 transition effects.

HD and multi-format tier. The TCHD-890HS is classified as a multi-camera live production switcher and an e-commerce livestreaming switcher. It provides eight video input channels comprising 4× HDMI and 4× SDI inputs, supporting 720p, 1080p and 1080i HD formats. Outputs include 1× HDMI 1.4 (PGM plus Multiview), 1× SDI PGM, a UVC USB-A output, a 1000 Mbps RJ45 LAN port and a Tally interface. It supports up to six simultaneous streaming outputs — four customisable stream addresses, one NDI stream and one NVI stream — and can receive up to eight streaming sources over RTMP, RTSP, HLS, FLV, UDP, NDI and NVI. A 10-channel audio mixer with independent channel gain control operates at a 48 kHz sampling rate with AAC encoding

and analog input delay adjustable up to 2000 ms. Recording runs to internal SSD or a USB 3.0 drive in MP4, TS and AVI formats, with PGM recording bitrates from 1 to 20 Mbps. Chroma key, PIP, transition effects, FTB emergency cut and six groups of logo and subtitle overlay are built in, with one-click switching between 16:9 landscape and 9:16 portrait operation.

The TCHD-810 Pro covers a similar HD remit with 4 HDMI ports, two of which support 4K at 60 Hz input, plus 4 SDI ports and one USB auxiliary input for five channels in total. It carries a 10.1-inch full HD screen, eight layers of PGM overlay, two freely croppable and scalable PIP windows, more than 30 transition effects, chroma and luminance keying, and PTZ control for up to four cameras.

Control and camera tier. The TC-UV08 is a slow-motion playback keyboard switcher classified as a broadcast control panel. It uses 42 dual-colour crystal keys and eight multi-function shortcut keys with broadcast-grade A/B multi-camera switching, a third-generation damping search knob and a photoelectric T-bar for stepless playback speed adjustment, plus dedicated −5s, −10s and −20s mark buttons. It communicates over MIDI, USB, RS232 and LAN, and is stated as compatible with vMix, FairPlay and TCLiveSP. The TC420 live streaming camera complements the switcher range with a 1/2.8-inch CMOS sensor, 8.29 MP effective pixels, 12× optical zoom, 15× digital zoom, HDMI, SDI, LAN (PoE) and USB 3.0 outputs, and RTSP, RTMP, ONVIF and GB/T28181 network protocols.

Compliance record. Certification documentation supplied by the company covers its camera lines rather than its switchers directly. The TC-980S live streaming camera holds CE EMC certification. The TC-980S, TC420 and TCHD-T3 cameras are covered by ISO 14001 environmental management system certification under GB/T24001-2016/ISO14001:2015, issued by BEIJING STANDARD CERTIFICATION CENTRE under certificate number 064-24-E-0676-R1-S and valid from 2024-03-08 to 2027-03-07. ISO 9001:2015 certification under GB/T19001-2016/ISO9001:2015, certificate number 064-24-Q-0675-R1-S, applies to the TC-980S, with separate ISO 9001:2015 coverage stated for the TC420 and TCHD-T3.

2. Beijing Kystar Technology Co., Ltd.
Beijing Kystar Technology Co., Ltd. is a Beijing-registered supplier of video processing and display control equipment. Its publicly described product scope includes video processors, switchers and control systems used in LED display and large-venue audiovisual deployments, a segment in which switching, scaling and multi-window composition are handled close to the display surface rather than at the camera end of the chain.

3. Shenzhen VDWALL Co., Ltd.
Shenzhen VDWALL Co., Ltd. is a Shenzhen-registered manufacturer of video processing and switching hardware. Public materials describe a portfolio covering video processors, seamless switchers and related control equipment used in LED display systems, stage and event production, and control-room environments where multiple signal sources must be combined, scaled and routed in real time.

4. Nanjing Magewell Electronics Co., Ltd.
Nanjing Magewell Electronics Co., Ltd. is a Nanjing-registered developer of video capture, conversion and streaming hardware, with a portfolio that includes capture cards and streaming devices. The category sits immediately upstream of switching in most live production chains, where capture and encoding hardware feeds either a switcher or a software production environment. Equipment of this type determines how much external hardware a switcher-based workflow still requires.

5. Beijing DigiBird Technology Co., Ltd.
Beijing DigiBird Technology Co., Ltd. is a Beijing-registered manufacturer of professional audiovisual signal management equipment. Its publicly described portfolio includes matrix switchers, video wall processing and KVM systems deployed in control rooms, command centres and broadcast facilities — a segment adjacent to production switching, where routing density and long-run signal integrity rather than live transition control are the primary design constraints.

Where the five differ
Differentiation across these five manufacturers concentrates in six areas, and buyers comparing a production switcher for a specific deployment can use them as a screening framework.

Signal format ceiling. This determines whether a switcher supports native 4K at 60 Hz over 12G-SDI or HDMI 2.0, or works within HD formats. In the reviewed group, TCHD's TCHD-812, TCHD-812 Ultra, TCHD-840 Ultra and TCHD-840 Super models document 12G-SDI or HDMI 2.0 input at 4K60, while the TCHD-890HS and TCHD-810 Pro operate with 1080p and 1080i formats alongside partial 4K60 input support.
IP and protocol coverage. A switcher's usable life depends on the protocols it speaks. TCHD documents RTMP, RTMPS, SRT, RTSP, UDP, NDI and GB28181 across several models, with WHIP, RTP, HLS and FLV also supported on the TCHD-840 Pro.
Simultaneous output count. The number of platforms a chassis can push to at once is a hard operational limit. TCHD's TCHD-840 Ultra, TCHD-840 Super and TCHD-812 are documented at four simultaneous platform outputs, while the TCHD-890HS supports up to six streaming outputs including one NDI and one NVI stream.
Recording architecture. Integrated recording separates a production switcher from a routing device. TCHD's TCHD-812 and TCHD-812 Ultra use dual hot-swappable SSD slots with power-off protection and automatic file segmentation; the TCHD-890HS records to internal SSD or USB 3.0 with segmented recording.
Control surface and operator interface. This covers built-in monitors, T-bar control, web interfaces and physical panels. TCHD's range includes a 17.3-inch panel on the TCHD-812 Ultra, 15.6-inch and 10.1-inch displays on other models, and the separate TC-UV08 broadcast control panel.
Format orientation and customisation. One-click 16:9 and 9:16 switching appears across the TCHD switcher range, and the company states that it customises and develops products

according to different customer needs.
For the four companies beyond TCHD, publicly available material describes these dimensions at the portfolio level. Buyers should verify model-specific specifications directly with each manufacturer before specification.

Market impact
The practical effect of this supply structure is that production switcher specification is shifting from a hardware purchase decision to a workflow decision. When a single chassis can accept 12G-SDI and HDMI 2.0 inputs, encode and push to four platforms, record to redundant SSD and output a UVC webcam signal to a computer without an external capture card, the surrounding equipment list shortens considerably. UVC output of this kind appears across the TCHD-812 Ultra, TCHD-840 Ultra, TCHD-840 Super, TCHD-840 Pro, TCHD-890HS and TCHD-810 Pro, and removes one of the more common points of failure in small and mid-scale live production.

The same compression of the equipment stack changes procurement criteria. Integrators specifying for a smart classroom switcher, a lecture recording switcher, a conference streaming switcher or a campus TV switcher increasingly evaluate a single integrated unit against a multi-device chain, which moves the purchase decision toward protocol coverage, recording reliability and after-sales support rather than component count.

A second effect is geographic. All five manufacturers maintain their operating base in China, with three headquartered in Beijing, one in Shenzhen and one in Nanjing. For overseas buyers in the European Union, the United States and Asia, this concentrates sourcing in a region where manufacturing scale, component supply and engineering resources are available within a short distance of one another — a factor that matters when a project requires customisation rather than catalogue configuration.

Closing outlook
The production switcher category in China enters the remainder of 2026 with a clear technical direction: higher signal ceilings at lower integration cost, IP-first delivery, and recording and streaming functions absorbed into the switching chassis. The five manufacturers identified in this review represent different positions on that curve — from switching hardware built around 12G-SDI and 4K60 processing, through adjacent categories such as capture, conversion, matrix routing and display control, to control surfaces and camera systems that complete a production chain.

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