Explore XE PTZ Cameras Keep Every Punch in Frame at China's National Youth Boxing Championship

When the 2026 National Youth (U16) Men's Boxing Championship opened in Guizhou Province on April 23, more than 300,000 viewers tuned in online — a turnout that underscored just how much this event matters.



Organized by the General Administration of Sport of China and the Chinese Boxing Association, the championship is the highest-level competitive platform for junior boxers in the country, drawing elite athletes from provinces and cities nationwide. The event was simultaneously live-streamed on the association's official WeChat account, bringing the action to audiences across China who couldn't be there in person.

Those who were there in person made their presence felt. On the competition floor, bouts ran across multiple weight classes throughout the day, from 46–48kg all the way up to over 80kg, with 1/16 finals keeping the pace relentless from morning through evening.

For the technical team responsible for capturing and delivering all of it live, the scale of the occasion was impossible to ignore: a national-level event, watched by hundreds of thousands, demanded broadcast quality with no room for error.


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拳台 A
男子57-60公斤级
场次 93
Round 1
1:37
甘肃
江苏
闫梦龙
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The Challenge: Full Coverage, Minimal Crew

Boxing is a demanding sport to shoot well — fast action, brief scoring moments, and a ring that needs to be covered from multiple angles simultaneously.

The venue in Guiyang County added further constraints: limited space, a tight pre-event setup window, and a small technical crew that had to be deployed efficiently. The live stream, meanwhile, needed to run without interruption for the entire duration of the championship, with picture quality that could hold up for hundreds of thousands of viewers online.

The ideal solution was one where a single operator could manage all camera positions remotely from the control room — no staff stationed at each camera, no complex cabling to slow down setup.

The Solution: Two Cameras, Full Coverage

The production team deployed two Explore XE PTZ cameras to cover the entire venue. The placement was deliberate: one camera positioned for a wide-angle panoramic view of the ring and surrounding area, the other set up at ringside for tighter close-up shots from the side. Together, the two units gave the director a complete visual toolkit — context, detail, and everything in between.





The live broadcast ran at 1080p to ensure smooth streaming performance, while the Explore XE's ultra-slow pan and tilt mechanism delivered sharp,

stable imagery throughout — precise enough to track fighters through rapid lateral movement without losing the subject or overshooting the frame.

IP-based transmission consolidated power, control, and low-latency video into a single cable per camera, simplifying setup and keeping the venue floor clear. The camera feeds were then routed into vMix running in the control room, where one operator handled live switching between the two Explore XE feeds, graphics overlays, and stream output — all from a single position, without anyone needed at the cameras themselves.



The Results: No Interruptions, No Missed Moments

The online broadcast ran without a single interruption from the opening bout through the final. Accumulated viewership exceeded 300,000, with picture quality holding steady throughout — no signal drops, no compression artifacts, no latency spikes during critical scoring moments.

From a coverage standpoint, the two-camera setup proved more than sufficient. Every significant exchange and every judges' scoring moment was captured cleanly, with the combination of wide and close-up angles giving the production team the flexibility to tell the story of each bout without gaps.

Operationally, the single-operator workflow delivered exactly what the team needed. One technician managed all camera movements and switching from the control room for the entire event, eliminating the need for on-site camera personnel and keeping the technical footprint as lean as the venue required. Deployment was completed well within the pre-event window, and the system ran without issue from start to finish.

What the Team Said

"Honestly, I wasn't sure two cameras would be enough for an event at this scale. But between the wide shot and the ringside angle, we had everything we needed — one operator, two cameras, 300,000 viewers, and we never missed a moment."
— Technical Operations Lead, Liu Wei

A Proven Configuration for Live Sports

The Guiyang deployment illustrates something worth noting for any broadcaster working live sports with a lean crew: the challenge is rarely picture quality alone. It's picture quality combined with operational simplicity,

fast deployment, and the ability to sustain performance under pressure — without a large technical team standing by to compensate for failures.

Two **Explore XE** cameras, a single network cable each, and one operator in the control room delivered a national-level broadcast to 300,000 viewers without missing a moment. A good example of what can be achieved with a small team.