

RED PIXEL CONSULTING

Precision Video Engineering for Live Events

Capabilities Overview | 2026

CONTACT

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COVERAGE

Nationwide Deployment
Global on Request

WHO WE ARE

Red Pixel Consulting was built for the realities of live production – fast timelines, high stakes, and no margin for error. We're a compact, senior-level team that embeds with your crew or runs point on your technical operation from day one.

We've supported events from intimate corporate gatherings to multi-camera broadcast productions across the country – Fortune 500 keynotes, pharmaceutical launches, XR and LED volume stages, awards ceremonies, and full-scale arena productions. Our size is a feature: no layers, no hand-offs, no surprises.

Our inventory is purpose-built around Analog Way Aquilon, Ross Carbonite Ultra, RED cinema cameras, and AI-tracked PTZ systems – a complete kit, fully tested, and ready to integrate with any house infrastructure.

Whether you need a full technical director to own your show from pre-production through strike, or a senior operator to sit alongside your existing crew, we travel light and deliver heavy. Every engagement gets the same thing: direct access to someone who knows the gear, knows the workflow, and has done this a thousand times.

25+

Years in Live Production

500+

Events Delivered

Senior-Level

Every engagement staffed exclusively with senior operators

Single Contact

One person owns your show, start to finish. You always know who to call.

CLIENT PRIVACY IS NON-NEGOTIABLE

Every Red Pixel engagement operates under strict NDA by default. We work with Fortune 500 executive teams, pharmaceutical launches under regulatory embargo, product reveals months before public announcement, and earnings presentations with material non-public information. Our crew signs NDAs before every engagement, and our digital infrastructure is secured and compartmentalized per project.

SERVICES

From signal flow architecture through strike – one team, one point of contact, zero hand-offs.

Video System Design

End-to-end signal flow architecture for complex live events. From concept to execution, we design systems that scale.

On-Site Technical Direction

Hands-on TD support from load-in through strike. We embed with your crew or run point on your entire technical operation.

Remote & Hybrid Event Engineering

Streaming infrastructure, encoding, and monitoring for virtual and hybrid events – with full redundancy and platform-agnostic delivery.

Rapid Deployment Consulting

Short-notice staffing and gear coordination nationwide. When timelines are tight, we mobilize fast with a full kit and a senior crew.

Vendor & Crew Coordination

Access to our trusted network of operators, vendors, and integrators. We assemble the right team for your event, every time.

Post-Event Technical Review

Documentation, debrief, and systems improvement. Every show tightens the process for the next one.

WHAT WE BRING

Compact enough for boutique ballrooms. Capable enough for arena-scale technical shows.

MULTI-SCREEN PRESENTATION PROCESSING

Analog Way Aquilon RS4 (2x Units, Linkable)

- 24 inputs / 16 HDMI 2.0 outputs per unit - all 4K60p with field-swappable I/O cards
- 10/12-bit 4:4:4 video processing with ultra-low latency - LivePremier platform
- HDR10, HLG, and BT.2020 WCG support (LivePremier V2 firmware)
- Simultaneous SDR/HDR/HLG source mixing with real-time conversion
- Input cards available: HDMI 2.0, DisplayPort 1.2, 12G-SDI, NDI, SFP+, SDVoE, Optical
- Dual redundant fiber linking - up to 48 in / 32 out combined
- Redundant power supplies, hot-swappable I/O cards, web RCS with live thumbnails
- 2x IPro 4K Utility

Barco E2 Gen2

- 1x Barco E2 Gen2 - 8 inputs, 8 outputs, 4K60p processing with Toolset management
- Used for legacy integration, additional routing, and backup presentation processing
- 1x IPro 4K Utility

12G Production Switching - Ross Carbonite Ultra

- 1x Ross Carbonite Ultra (fully unlocked) - 24 in / 14 out, up to 3 MEs + 4 MiniMEs
- 4x 16-window MultiViewers, integrated 48-channel RAVE audio mixer
- 1x Ross Ultrix 32x32 Router - modular hyperconverged routing (SDI, ST 2110, NDI)
- 1x Ross OGX Frame (D/As, Optical, GatorSync)
- 1x Ross TD2 2ME 15-Button Desk with monitor, 2x 24" TV Logic, 4x 55" Sony
- 1x Yamaha RMio64-D (Dante audio bridge)

THREE DISTINCT CAMERA SYSTEMS

Each system has its own CCU rack and control workflow - all feeding the same switching infrastructure.

System 1: RED Cinema - CINE BROADCAST

- 2x RED V-RAPTOR [X] 8K VV - 17+ stops DR, global shutter, 120fps at 8K
- 2x RED KOMODO-X 6K S35 - 16.5+ stops DR, global shutter, 80fps at 6K
- 2x RED CINE BROADCAST CCU - LEMO SMPTE hybrid fiber base stations
- GPU debayer - 2x 4K60p HDR/SDR via 12G-SDI + ST 2110 (TR-08)
- Simultaneous RAW record + live broadcast - 8K 120fps R3D streaming
- 2x Cyanview RCP (iris, gain, WB, lift/gamma/gain)
- 2x KAIROS multi-axis controller (zoom/focus/iris)
- Super slo-mo: 3x/4x at 8K, up to 10x at lower resolutions

System 2: Panasonic Broadcast - CCU Workflow

- 3x AK-UC3000 - large-format 4K MOS, F10 sensitivity at 59.94Hz
- 3x AK-UCU500 - uncompressed 4K fiber up to 2,000m
- 3x AK-HRP1000 - full broadcast paint control panels
- 2/3" lens mount - compatible with existing broadcast glass
- Flash band comp, shock-less gain (-6 to 36 dB), skew reduction
- 1x Barco 8x8 Matrix for signal routing

System 3: Panasonic PTZ - AI Auto-Tracking

- 4x AW-UE160 - 1" MOS, 4K crop-zoom, ST 2110 native, NDI HX, 12G-SDI
- 4x AW-UE150 - 1" MOS, 20x optical + 32x intelligent zoom, 4K60p

MEDIA SERVERS, RECORDING & INFRASTRUCTURE

Media Servers

- 4x Pixera Four - Threadripper / A6000 Output, A4000 GUI, 8K Input
- 1x Disguise X1 (XR/LED volume workflows)

Recording

- 8x Blackmagic Hyperdeck Studio 4K - network destination enabled
- 2x Atomos Shogun Studio Gen2
- 1x BM Constellation HD
- 1x MacStudio (NAS / Companion Control)

Network Core

- 1x Ubiquiti Dream Machine + XG-16 Core
- 1x Peplink BPL580 (failover WAN)
- 4x Ubiquiti AP WiFi 6

Computers

- 4x M3 16" MacBook Pro
- 4x PC PPT Towers

Monitors

- 8x 43" Dell | 8x 27" Asus (production monitoring)
- 4x 65" LG | 8x 55" LG (DSM/BSM)
- 2x 24" TV Logic | 4x 55" Sony (switcher monitoring)

Cable & Fiber

- Full cable package: HDMI, DP, SDI, Hybrid HDMI, Hybrid DP
- Fiber snakes: 8x 100m 12CH ST, 4x 50m 12CH ST, 4x 100m 4CH ST

Remote & Stage Boxes

- FOH: Yellobrik 12G fiber conversion, Ubiquiti Switch
- DSM: Yellobrik 12G, Ubiquiti Switch, 10x10 BM 12G Matrix
- Robo Sync: Everts 5601, Yellobrik 12G/sync over fiber

Stage Demo Kit

- 4x OWC Thunderbolt Dock, 3m Thunderbolt cable

Ready to talk?

Tell us about your event and we'll get back to you within 24 hours.

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