NAVIGATING THE FUTURE

HPA

TECH RETREAT 2023

CAPTURE, EDIT, AND DELIVER 16K IMMERSIVE THEATRE EXPERIENCES

CAPTURE, EDIT, AND DELIVER 16K IMMERSIVE THEATRE EXPERIENCES

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SYSTEMS INTEGRATOR

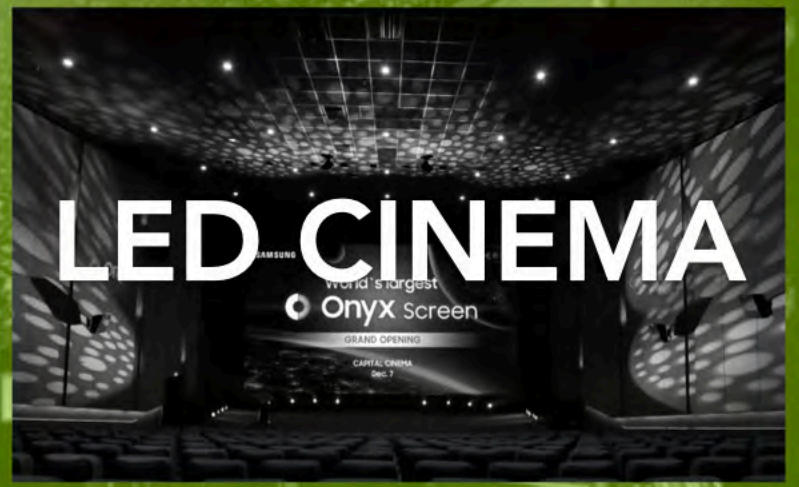
AV I BROADCAST I POST PRODUCTION

JEFF SENGPIEHL,
CHIEF TECHNOLOGIST

ED LOCKE,
SR. SOLUTION ARCHITECT

WHY WOULD ANYONE NEED THIS?

IMMERSIVE EXPERIENCES
CLARITY, VIBRANCE, VISIBILITY
HIGHER RESOLUTION



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LED VENUES

CONCERTS & THEATRE

CONCERT VENUE

IMMERSIVE MOVIES

TALENT

DARREN ARONOFSKY

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LED CINEMA

LED CINEMA ADVANTAGES

SCREEN EXTENSION
6X BRIGHTNESS
~~PROJECTOR BOOTH~~

LOCATIONS

KOREA, CHINA, INDIA

MANUFACTERS

SAMSUNG, SONY, BARCO

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POST PRODUCTION WORKFLOWS FOR IMMERSIVE 16K X 16K DOME THEATRE CONTENT.

THE WORKFLOW WE KNOW FOR POST PRODUCTION

HOW WILL THIS CHANGE WITH 16K X 16K CONTENT?

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CAPTURE & INGEST

HOW DO WE GET TO 16K/RESOLUTION INDEPENDENCE?
CAMERA SYSTEMS

- ✓ SIMILAR TO VR WORKFLOWS
- ✓ STACK & STITCH IN POST
- ✓ USING 4X4K CAMERAS:

  CODEC: ANY 4K CODEC
  INGEST FOR 1 HOUR

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EDIT &
FINISHING

HOW DO WE GET TO 16K / RESOLUTION INDEPENDENCE?

SPEC'ING OUT YOUR SYSTEMS

SPECS FOR A 16K WORKSTATION

GRAPHICS

NVIDIA RTX6000 Dual GPU

PROCESSOR

AMD 32 Core Thread Ripper
1 TB RAM

STORAGE

LOCAL NVME

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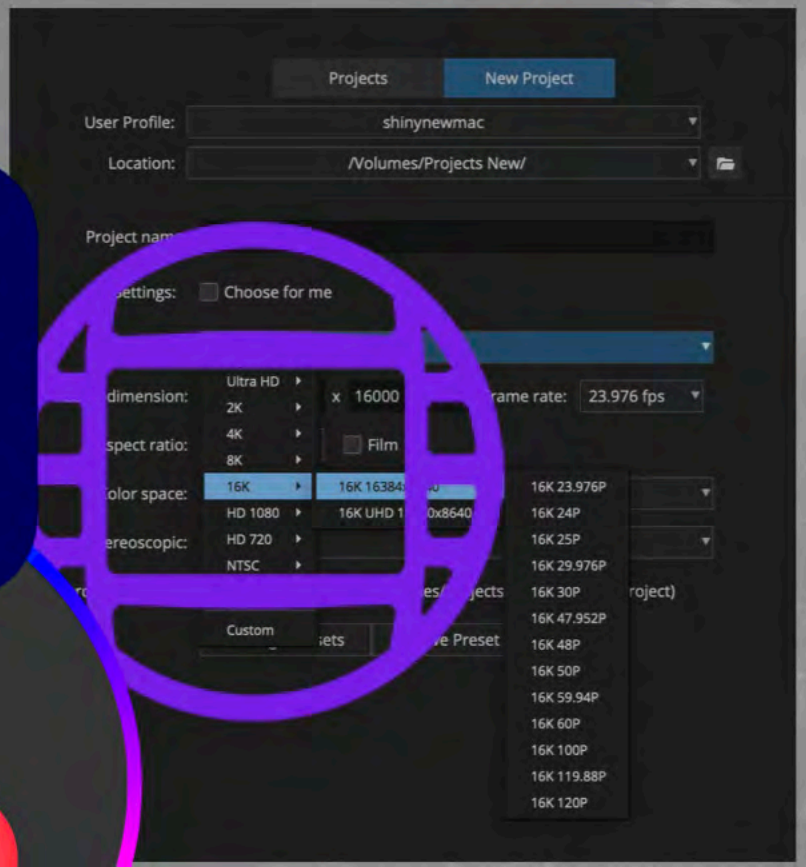
SPEC'ING OUT YOUR NLE



EDITING SOFTWARE & WORKFLOW

✓ NLE: Avid Media Composer, BMD DaVinci Resolve - resolution independent!

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EDIT &
FINISHING

HOW DO WE GET TO 16K / RESOLUTION INDEPENDENCE?

THE EDIT -> FINISH -> CONFORM WORKFLOW

EDITORIAL
(8K PROXY)

COLOR
(8K PROXY)

CONFORM
(16K FILE)

3D COMPOSITION
/ FINAL DELIVERY

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EDIT &
FINISHING

HOW DO WE GET TO 16K / RESOLUTION INDEPENDENCE?
SPEC'ING OUT YOUR SYSTEMS

GETTING THE DOME RIGHT
REQUIRES MATH & COMPOSITION!

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REVIEW &
APPROVE

HOW DO WE GET TO 16K / RESOLUTION INDEPENDENCE?
IN POST PRODUCTION FACILITY - REVIEW AND APPROVE

VR & NUKE

BUILD A GIANT DOME!

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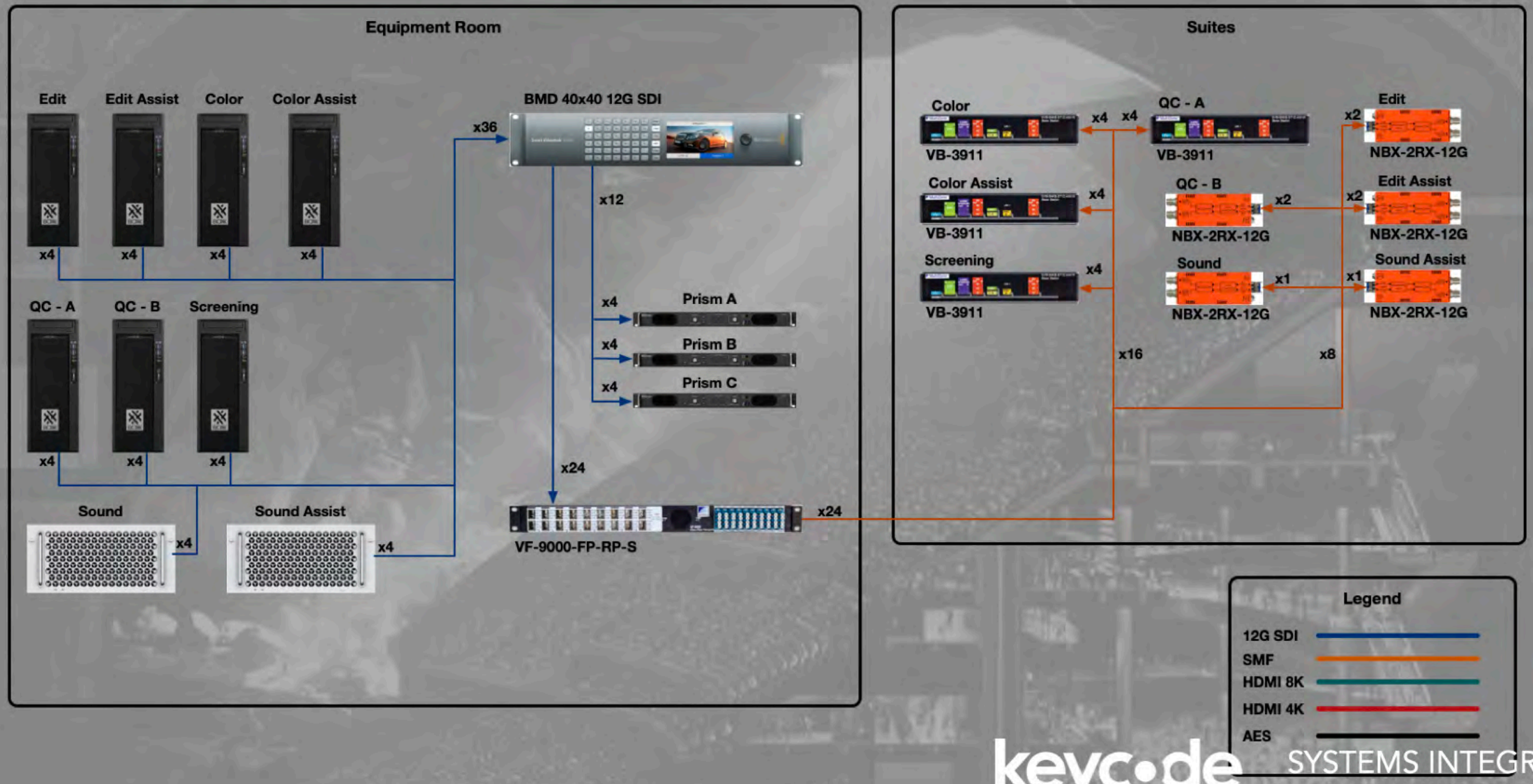
VIDEO SIGNAL WORKFLOW



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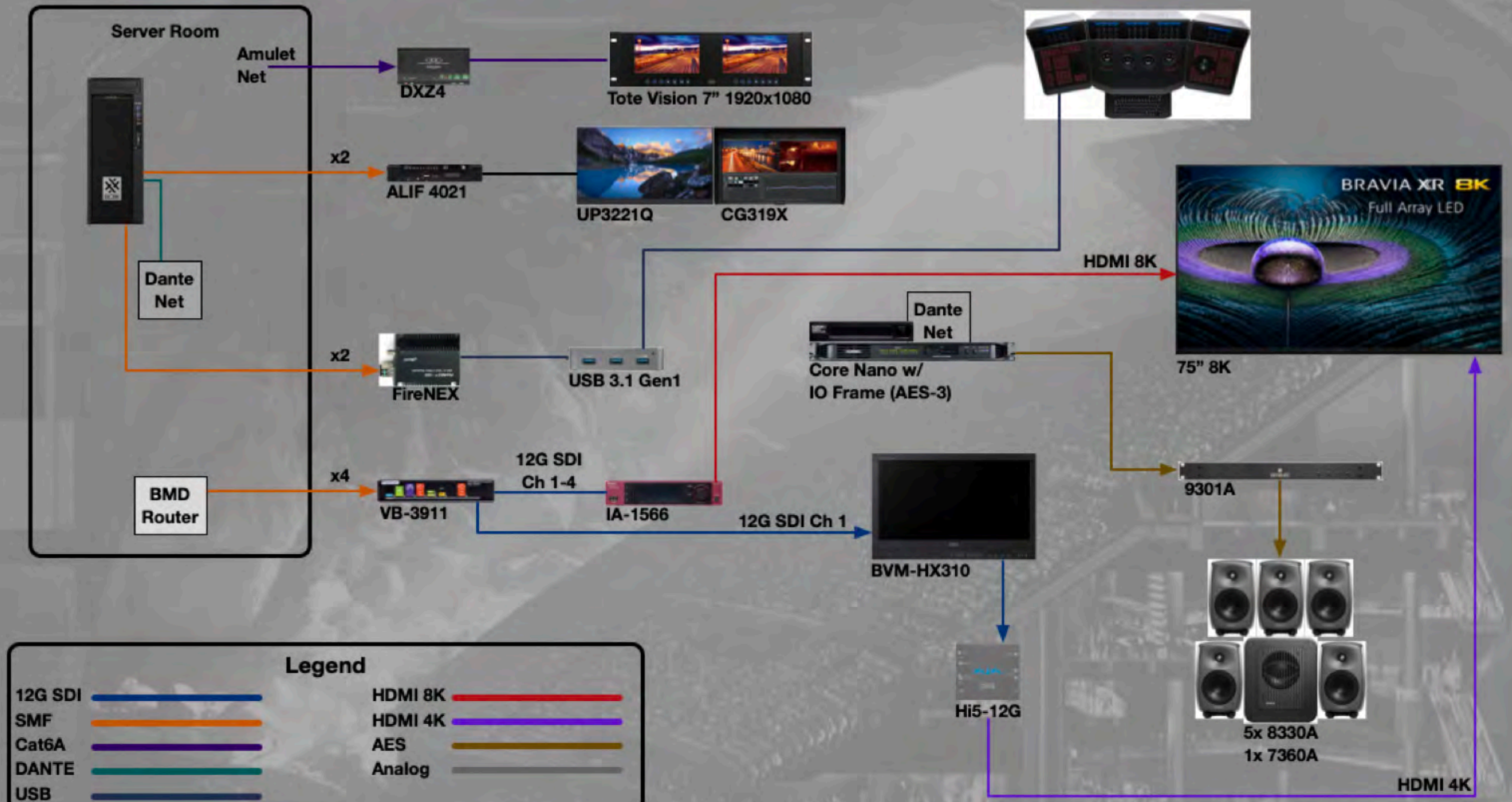
HOW DO WE GET TO 16K / RESOLUTION INDEPENDENCE?

COLOR SUITE WORKFLOW



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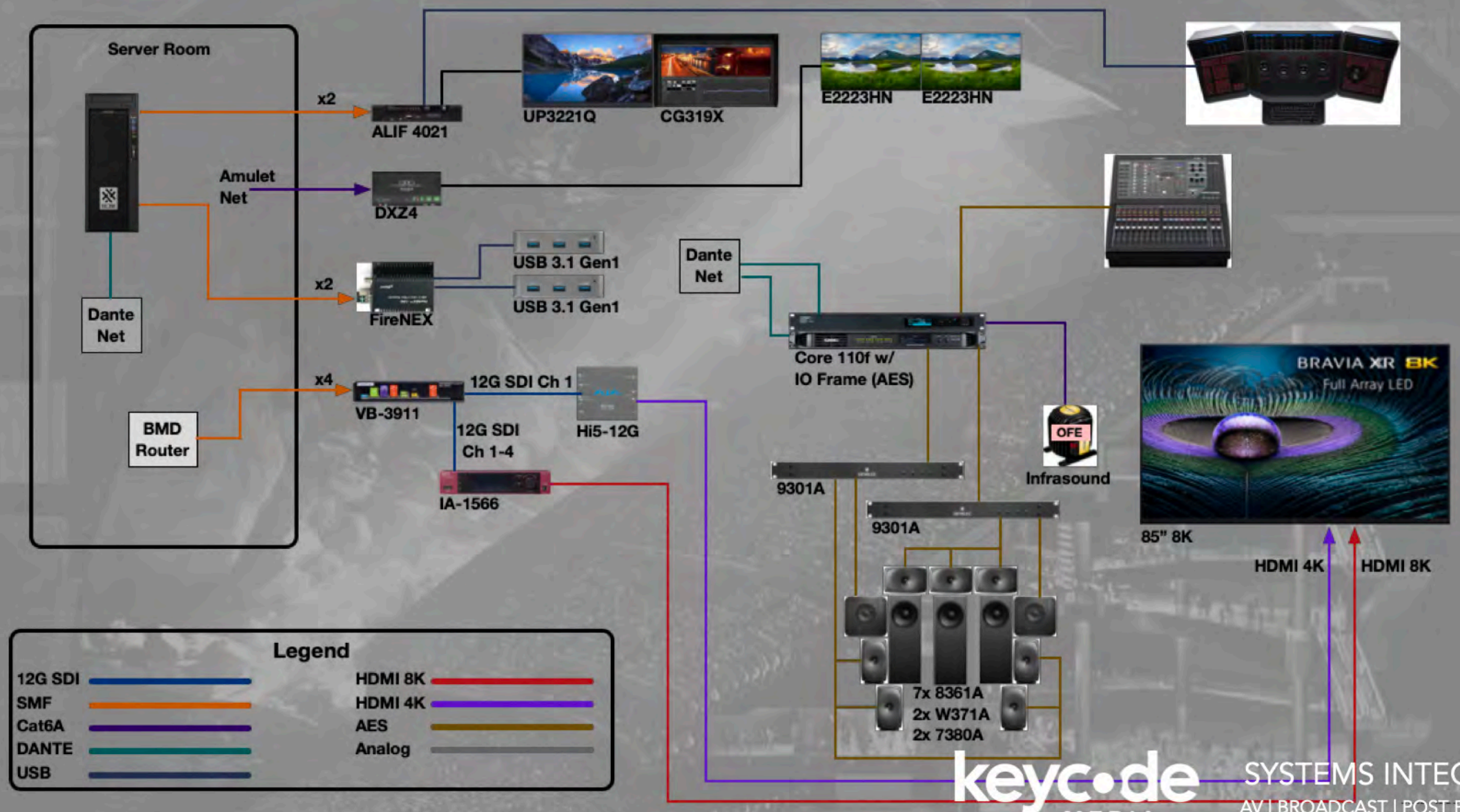
8K SCREENING ROOM WORKFLOW



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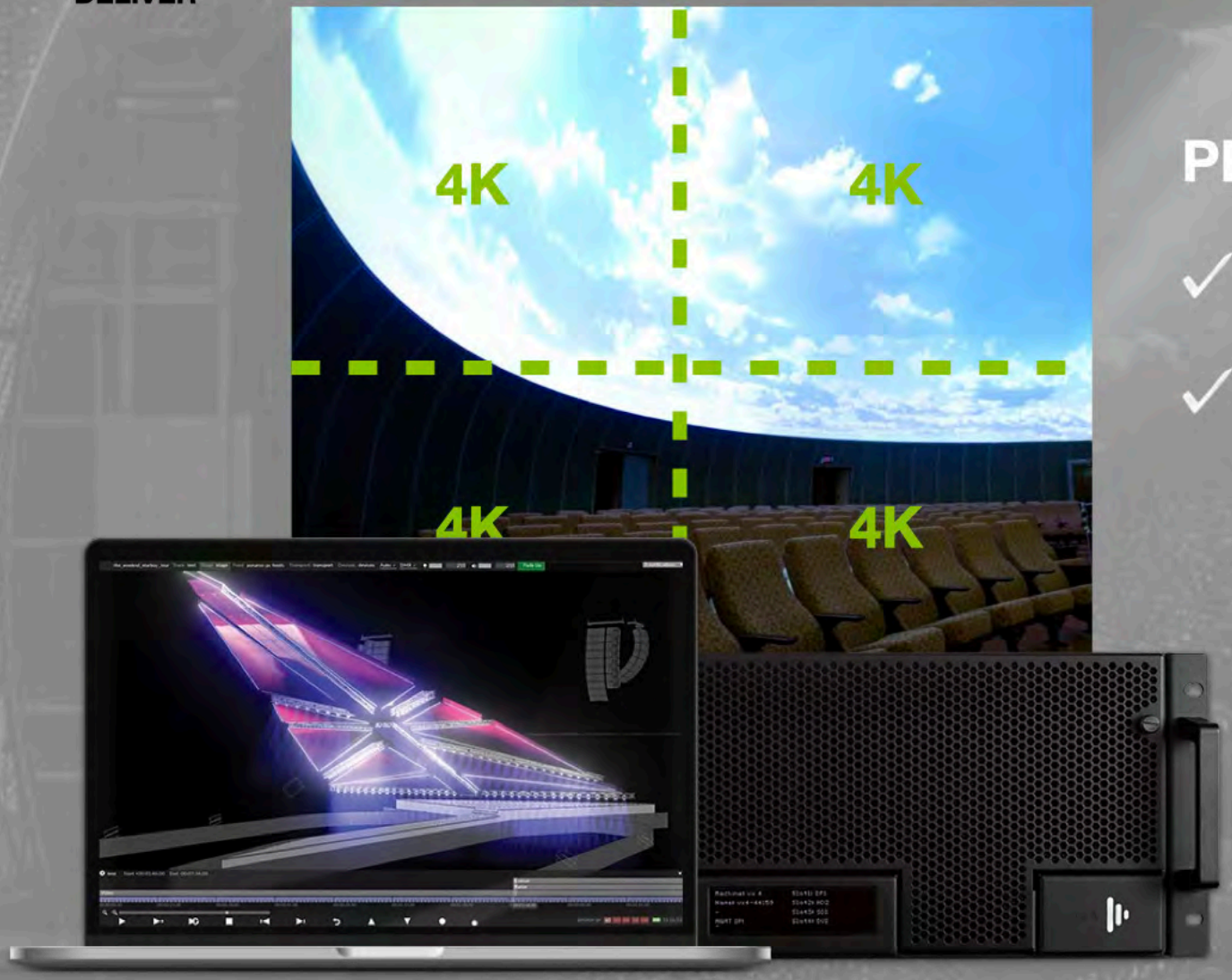
DELIVER

HOW DO WE GET TO 16K / RESOLUTION INDEPENDENCE?

AT VENUE - STRUCTURED CABLING, LAYOUT



PLAYOUT

- ✓ Venue Wiring -12G VS 2110?
- ✓ Back to stitching - 4K x 4K x 4K x 4K

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QUESTIONS?

PHONE:
818-303-3900

BOOK A STRATEGY CALL:
www.keycodemedia.com

SCAN ME

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