



# *Products*

*Mai 2018*

***Guillaume Godet***

# Innovative Player in the Industry



- Creating and proposing exciting solutions for Live production
- Core team has more than 100 years of combined experience in Live TV
- Started developing solutions in 2015 with ViBox live productions starting in September 2016
- Effective, experienced and agile team to quickly implement solutions
- Hong Kong Headquarters
  - 4 Worldwide offices in China, Belgium and U.S.

# Products - MMR



- MMR-110
- MMR-410



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## MMR Applications

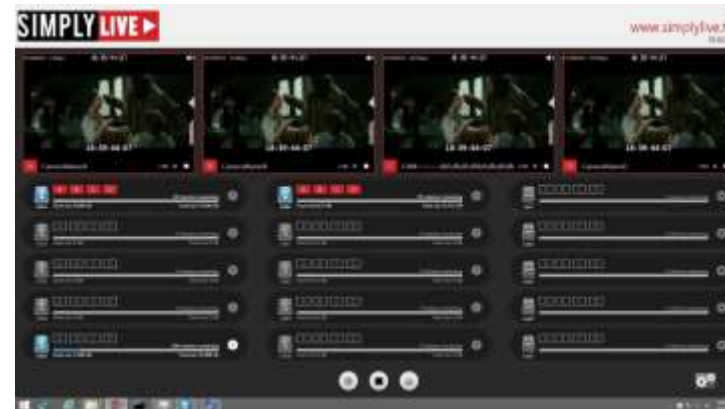
- DVD replacement recorder
- Live Streaming
- ISO camera recorder
- Deliver content by FTP to websites

# MMR-110/410










## Specifications

- 1/2 RU PC /2RU, 80/200 W , Windows 10
- 1/4 x HD-SDI input:
  - (1080 50i, 1080 60i, 720 50p, 720 60p, 525i, 625i)
- LTC, VITC support
- 8CH Embedded Audio
  - Select any 2 Mono tracks for recording
- H264 codec – up to 10 Mbps per stream
- MP4 & MOV wrapper
- Record on to Local HDD (Buffer)
- Write to USB Drive, Network Drive, FTP
- Live streaming in HLS or RTMP
- Support up to 10 USB3 drives
- Watermarking Logo option
- Timecode burn option
- Rest API support



# ViBox 1 Platform, Multiple Applications

## 3 Hardware Models





HD	<b>ViBox Mini</b> 4-Ch. - ViBox-4 <b>Mini</b>  8-Ch. - ViBox-8 <b>Mini</b> 	Portable External PSU SSD Storage (24h) Single User SDI & Streaming
	<b>ViBox</b> 6-Ch. - ViBox-6  8-Ch. - ViBox-8  16-Ch. - ViBox-16 	4RU Rackmount Redundant PSU RAID Storage (240h HD, 40h 4K)
4K UHD	<b>ViBox 4K</b> 4-Ch. - ViBox-4 <b>4K</b>  8-Ch. - ViBox-8 <b>4K</b> 	Multi User SDI & Streaming

## 1 Common Backend Software



Video & Audio Processing,  
Record, Playback, Export, ...

## 4 Application Layers<sup>(\*)</sup>

All-in-1 Production  ViBox Prod	SloMo  ViBox SloMo
Ref&Box  Video Referee	BMR  Master Recording

(\*) Multiple applications can run simultaneously on 1 ViBox unit

# Solid Core to Build Upon

Full IP  
Architecture

- 4RU 19-inch chassis with 6, 8 or 16 x 3G SDI
- Combined CPU & GPU processing, 1Gb/10Gb connectivity.
- 4K Solution in 2018
- Multiple Applications on same platform



**ViBox**

# Applications

## **BMR**

- Live Master Recorder
- Live Streaming Server

## **ViBox – Production**

- All in One Production Unit – OB Van in a box
- Simplified Studio solution
- Turn-around suite

## **ViBox – SloMo**

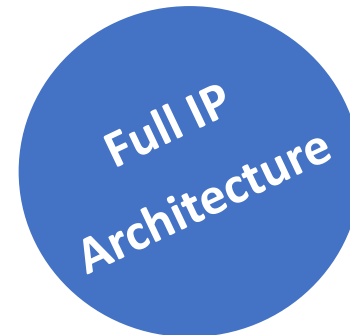
- Slow motion Server

## **Ref&Box**

- Referee/Review System

**System allows combination of applications to run at the same time:**

- ViBox Production w/ Ref&Box
- ViBox Production w/ BMR



- 4RU 19-inch chassis with 6, 8 or 16 x 3G SDI
- Combined CPU & GPU processing, 1Gb/10Gb connectivity.
- 4K Solution in 2018
- Multiple Applications on same platform

**ViBox**

**1 Platform, Multiple Applications**

**Sports OB**



**Downstream  
Turn-Around**



**Live Studio**



**Studio Ingest**



**Video Review**





# **Ingest & Streaming**

Flexibility in Server Configurations

# BMR-8



## Specifications

- **Video :**
  - 8 x HD SDI Inputs :
    - H264, H265, DNxHD, DNxHD+H264, DNxHD+ H265, Xdcam (Q2 2018)
    - Record onto local storage, network storage, removable storage, FTP
    - H264 & H265 live streaming in HLS and RTMP
  - 2 x 4k SDI Inputs :
    - H264, H265, DNxHD,
    - Record onto local storage, network storage, removable storage
    - H264 & H265 live streaming in HLS and RTMP
- Rest API support for control, clipping and monitoring
- **Storage :**
  - Internal RAID storage 5x3TB (200 hours of HD recording)
  - USB3 connectors for import from/export to external storage
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)



# ViBox - Integrated Production Concept

**SIMPLY LIVE** ▶

Live Production at your fingertips:

- Production switcher
- Audio mixer control
- Live graphics (NDI), PiP
- Replays & highlights
- Collaborative environment
- Clip delivery – import/export



Touchscreen UI



Collaborative



Intuitive



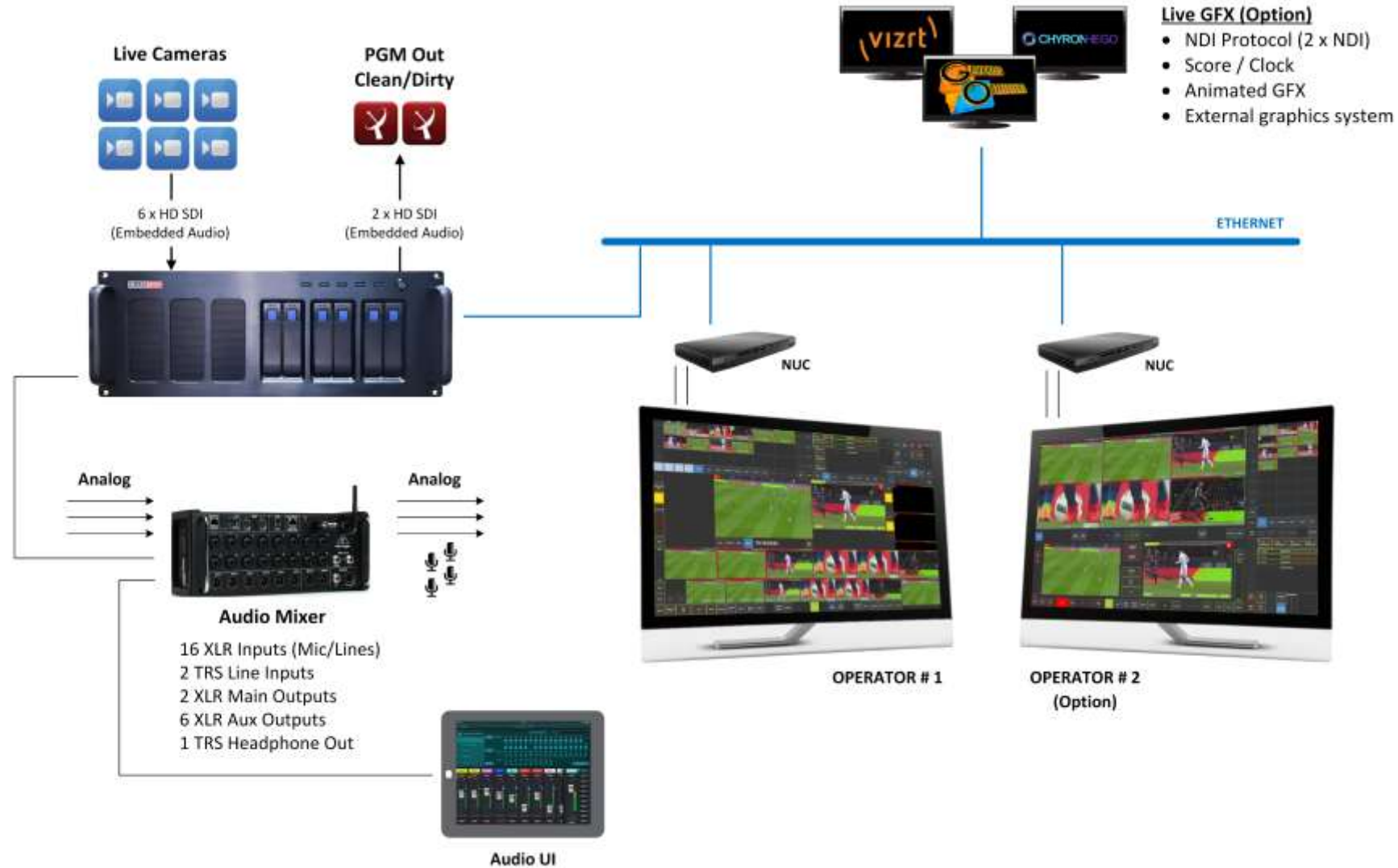
**ViBox**

# ViBox - The Innovative User Interface

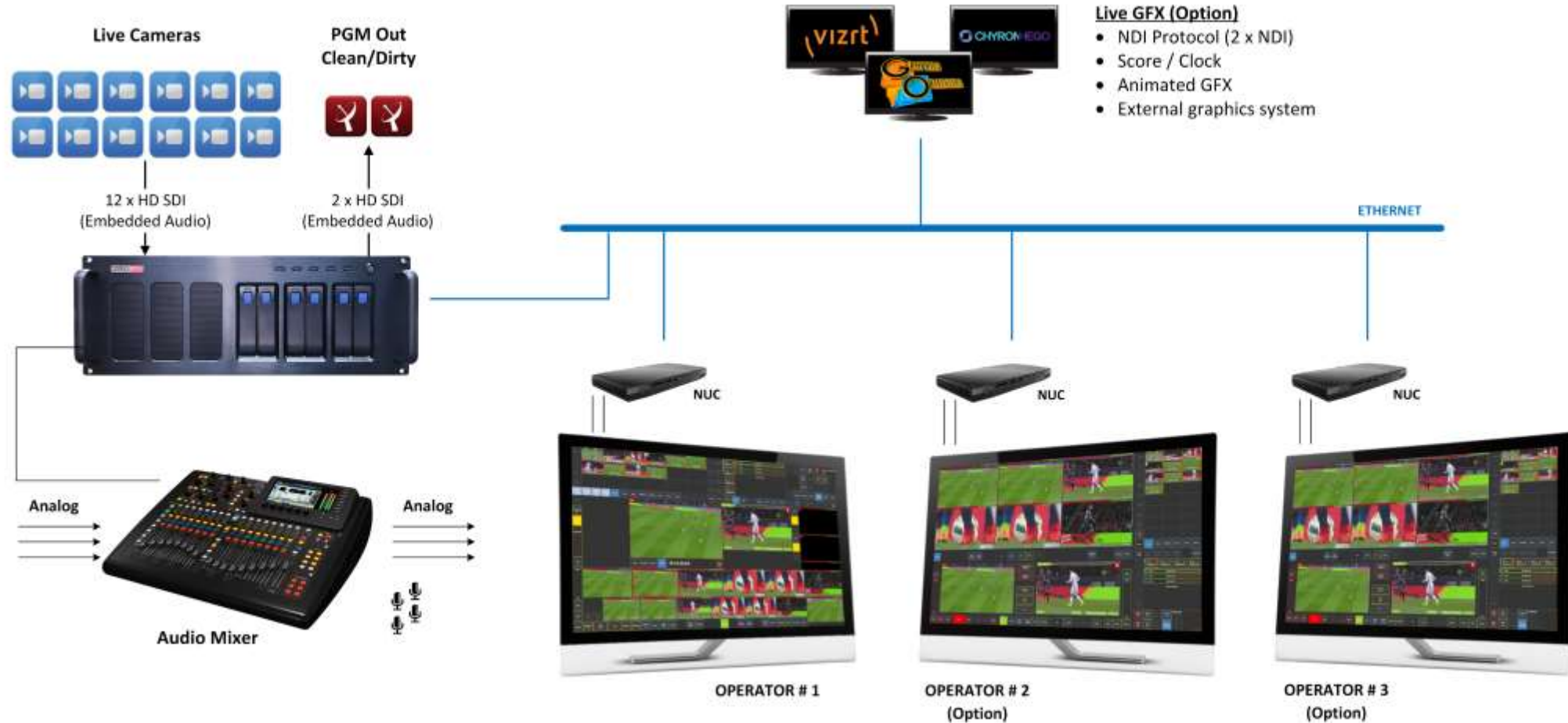


- Optimized UI design for single operator production
  - Expand to multiple users with collaborative integration
- 27" WQHD Touch Screen:
  - Video switching, Graphics, Audio Presets, Replays, Highlights, Logging

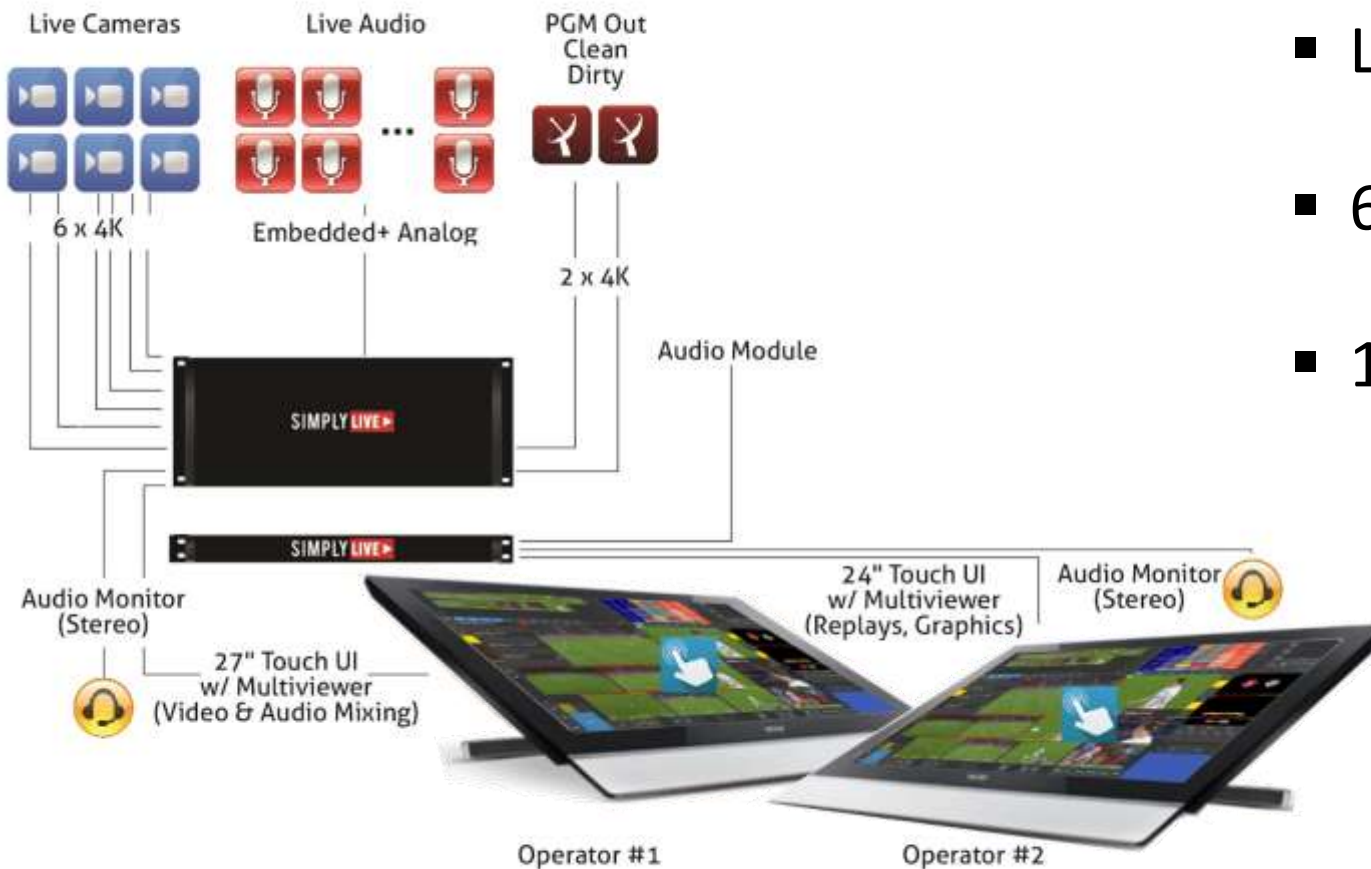
# ViBox 8 - Architecture



# ViBox 16 – Architecture



# ViBox 8 – 4K



- Local production
- 6 x 4K Cameras
- 1 (or 2) Operators

## ViBox 8 - 4K

# ViBox - Flexibility to Scale to your Production needs



## **ViBox 6**

- Up to 4 Cameras (2 OUT – Clean & Dirty PGMs)
  - Optimized for smaller productions and the most cost-effective solution
  - One (1) user configuration

## **ViBox 8**

- Up to 6 Cameras (2 OUT) or 7 Cameras (1 OUT)
  - Increased scalability up to 7 Cameras (including Super SloMo configurations)
  - One (1) or Two (2) user configurations for increased editorial capabilities
  - Hardware can be upgraded to ViBox 16

## **ViBox 16 (Q2 release 2018)**

- Up to 12 Cameras (with options for Super SloMo)
  - Increased scale to cover larger productions
  - Two (2) or Three (3) user configurations
  - Flexible camera configurations to allow SSM camera options

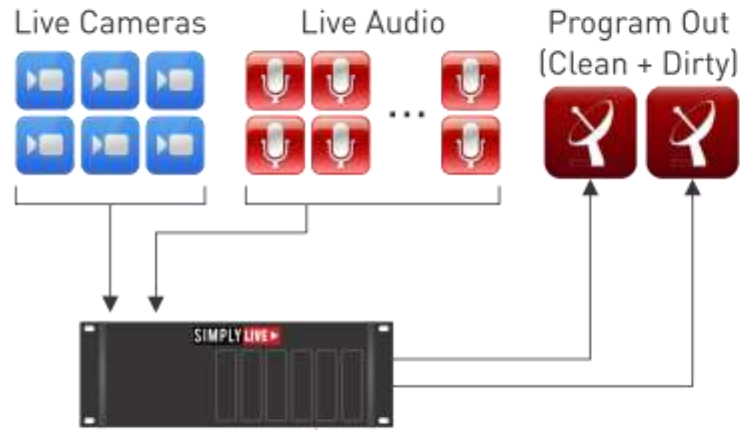
## **ViBox 8 - 4K (Q3/4 2018)**

- Up to 6 Cameras (2 OUT) in 4K!
  - Cost effective and powerful solution to boost 4K productions
  - One (1) or Two (2) user configurations

**ViBox**



		Cams	Users	Super Motion
HD	ViBox-4 Mini	3	1	✓
	ViBox-8 Mini	7	1	✓
	ViBox-6	5	1 ; 2	✓
	ViBox-8	7	1 ; 2	✓
	ViBox-16	12	1 ; 2 ; 3	✓
	ViBox-4 4K	3	1 ; 2	✓
	ViBox-8 4K	7	1 ; 2	✓



User 1 : Program Production



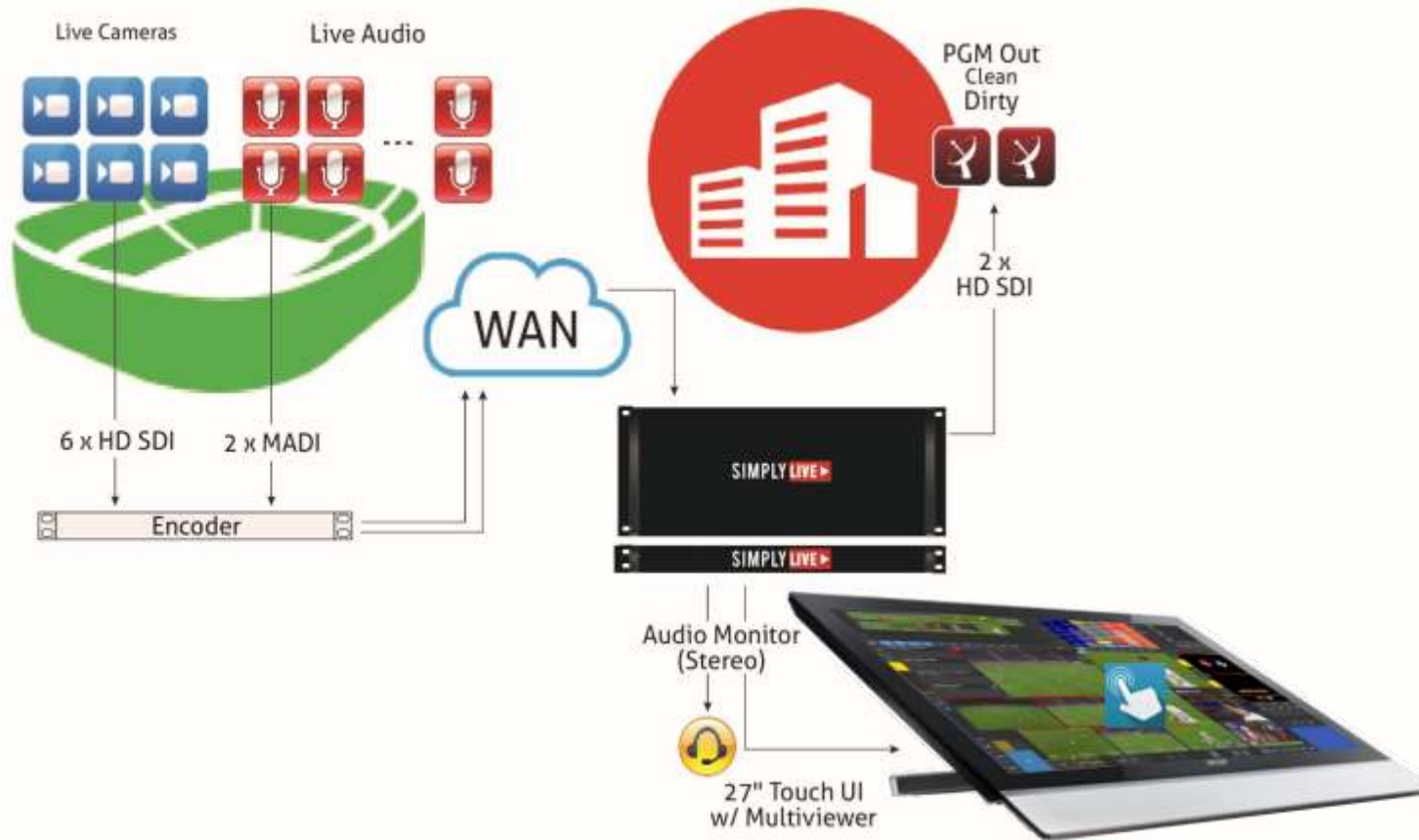
User 2 : Slomo & Highlights



Live Graphics (NDI)

Network

# Remote Configuration Model 1



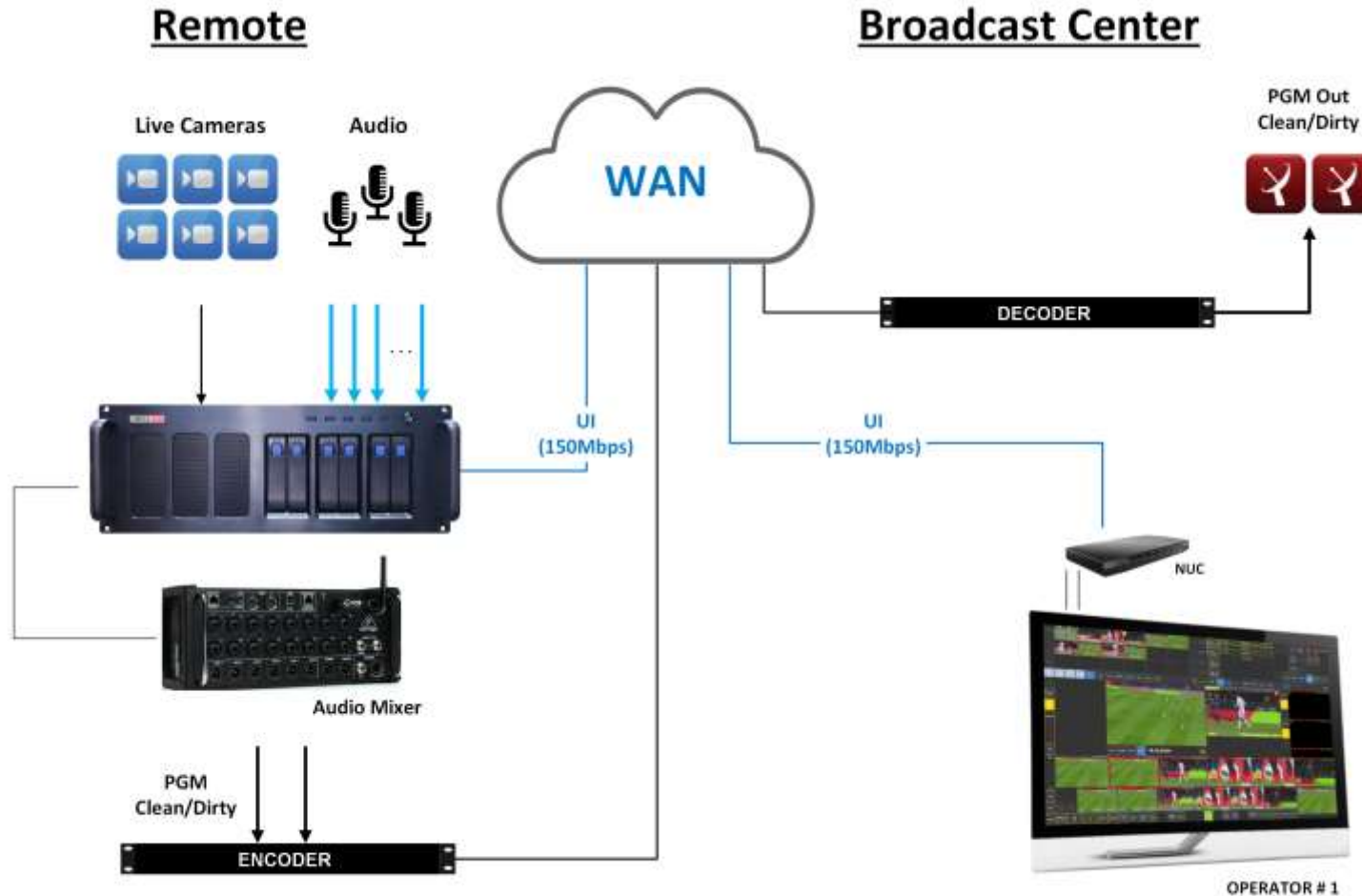
## At-Home Production:

6 HD cameras with  
1 (or 2) operators

- IP Camera streams sent to Broadcast Center
- RTMP, TS UDP, NDI support
- Production Server at Broadcast Center

**ViBox**

# Remote Configuration Model 2

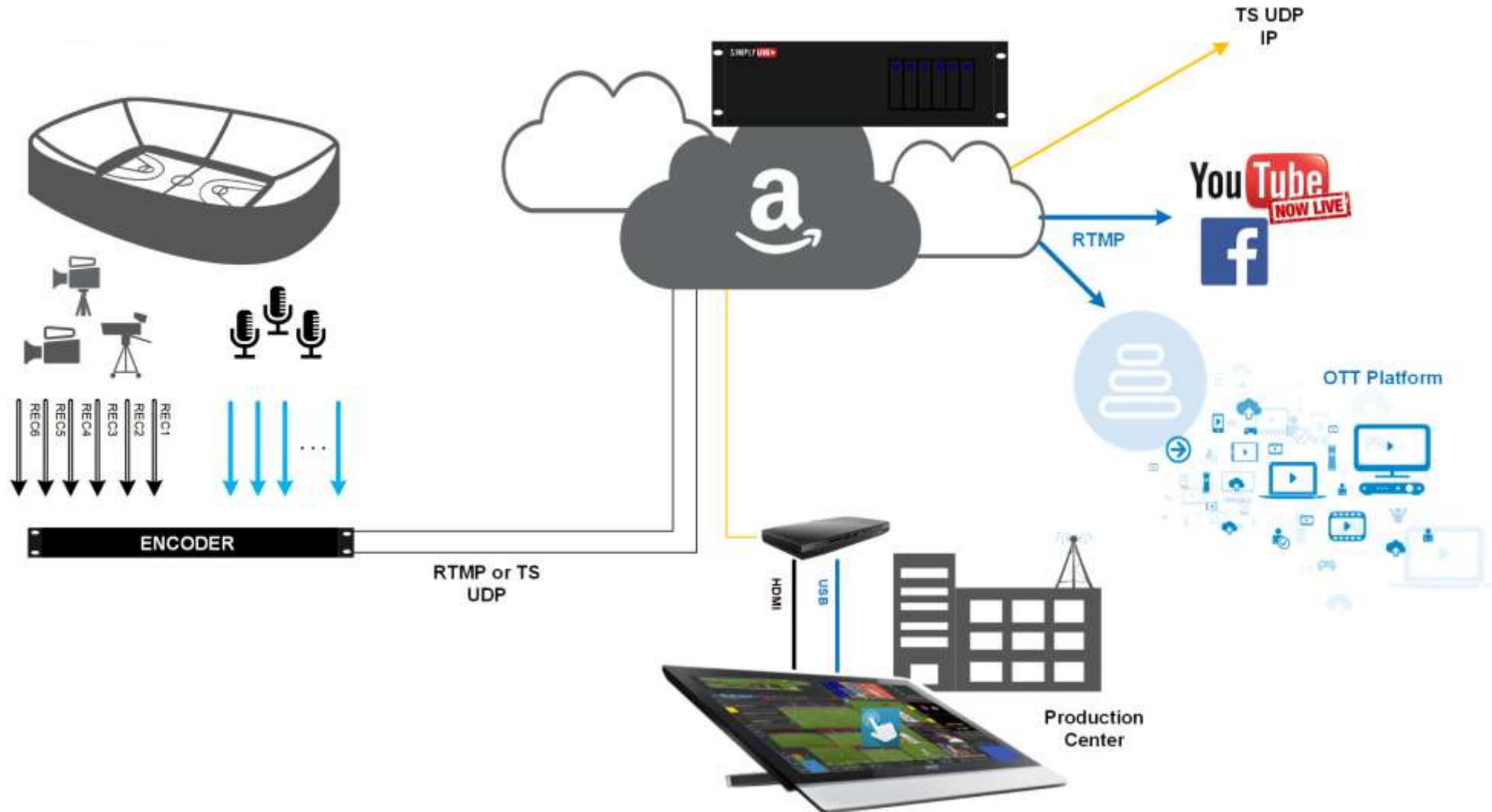


## At-Home Production:

6 HD cameras with  
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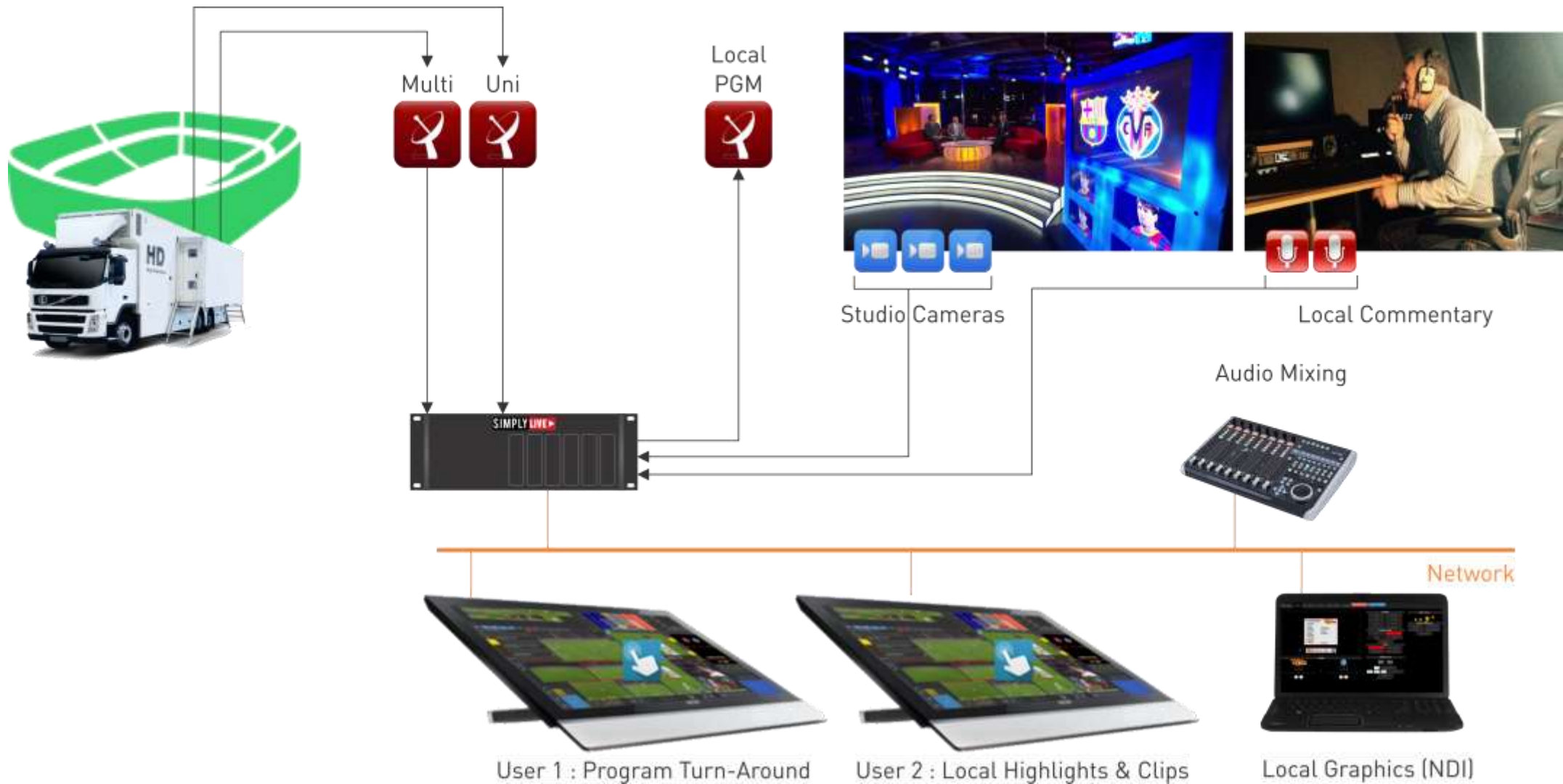
- Production server at Venue
- Control UI at Broadcast Center
- 100Mbps for full frame-rate UI including data & video
- (50 Mbps for Q2 2018 with more latency resilience)

# ViBox Cloud

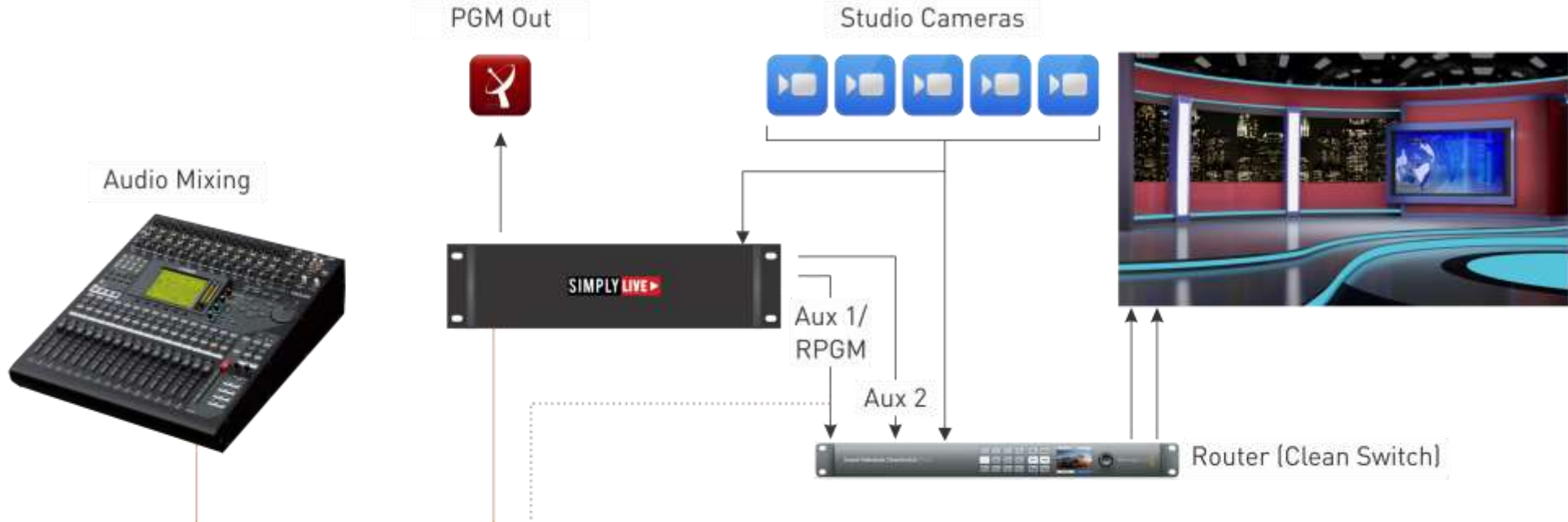


# ViBox Downstream Turn-Around

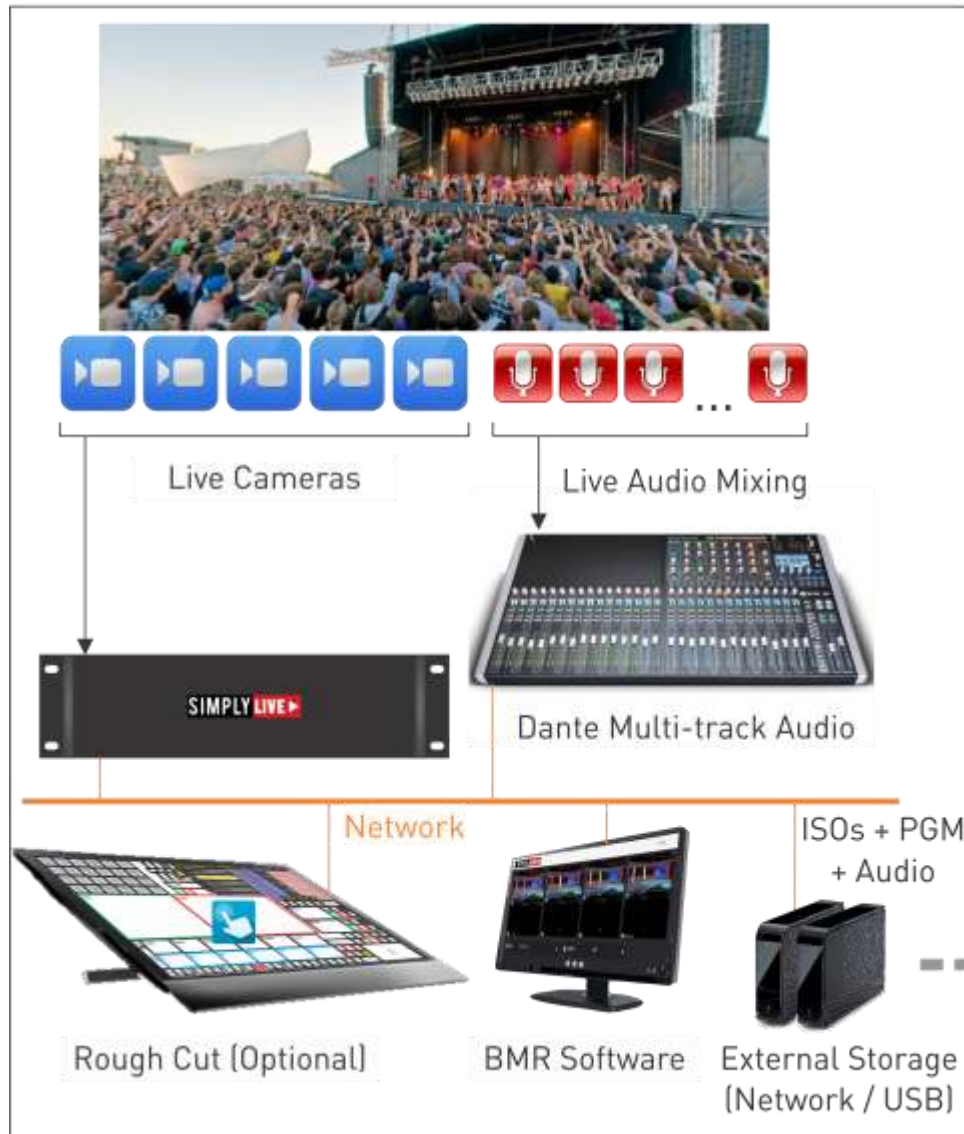
**SIMPLY LIVE** ▶



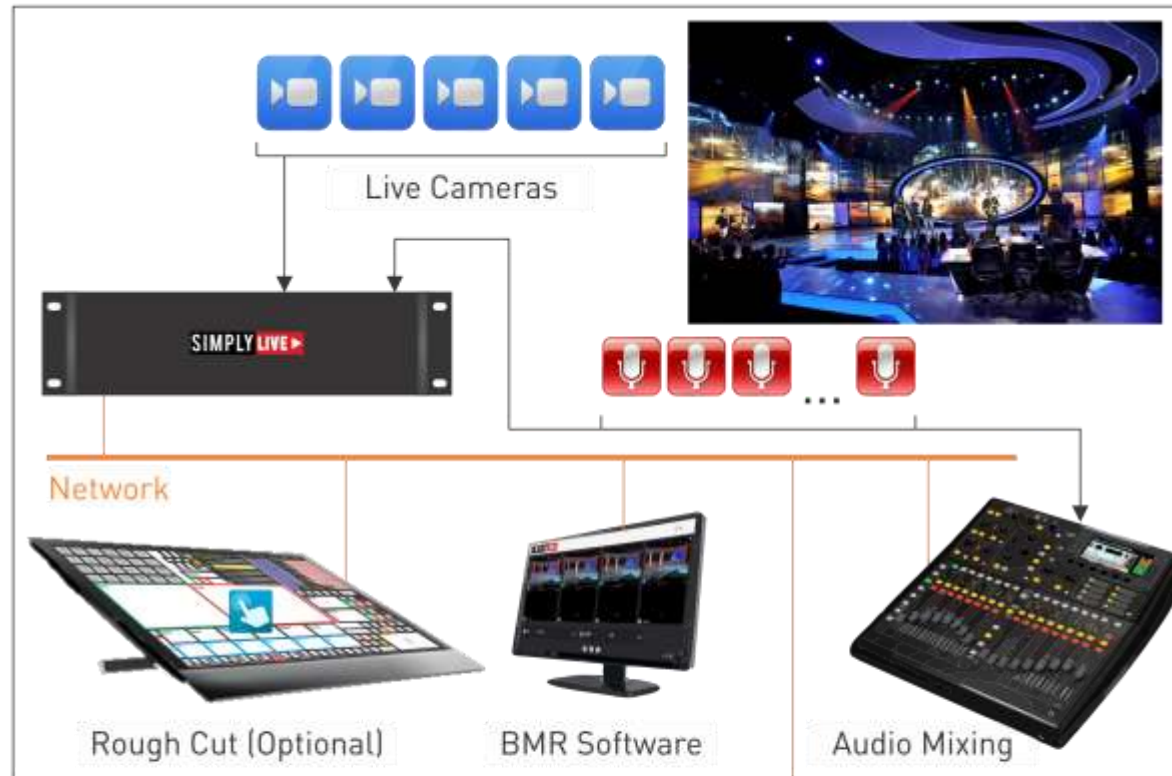
# ViBox Live Studio



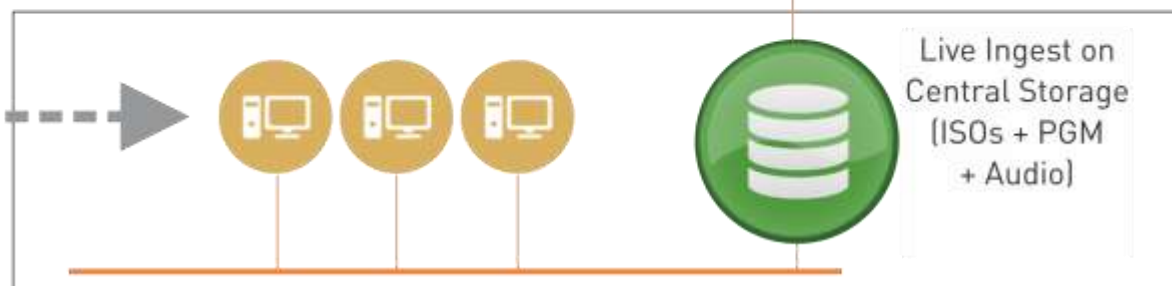
## Events



## Studio



## Post Production



# **ViBox – SloMo HD**

Powerful & Affordable Slow-motion Solution



# ViBox 8 -SloMo

**SIMPLY LIVE** ▶

## Specifications

- **Video :**
  - 6 x HD SDI/NDI Inputs
  - 2 x HD SDI/NDI Outputs
  - Options for **SSM** Inputs
  - 6 Preview and 2 PGM
  - Codec : DNxHD 120/145
- **Storage :**
  - Internal RAID storage 5x4TB (>250 hours of HD recording)
  - USB3 connectors for import from/export to external storage
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)
  - Analog Audio : 18ch In and 8ch Out (optional)
- **Controller**
  - Touchscreen
  - Dedicated Controller



**ViBox SloMo**

# ViBox16 -SloMo



## Specifications

- **Video :**
  - Two 6 x HD SDI Inputs
  - 4 x HD SDI Outputs
  - 2x 6x Preview
  - Codec : DNxHD 120/145
- **Storage :**
  - Internal RAID with 5x4TB (>200 hours of HD recording)
  - USB3 connectors for import/export to external storage
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)
- **Controller**
  - Touchscreen
  - Dedicated controller



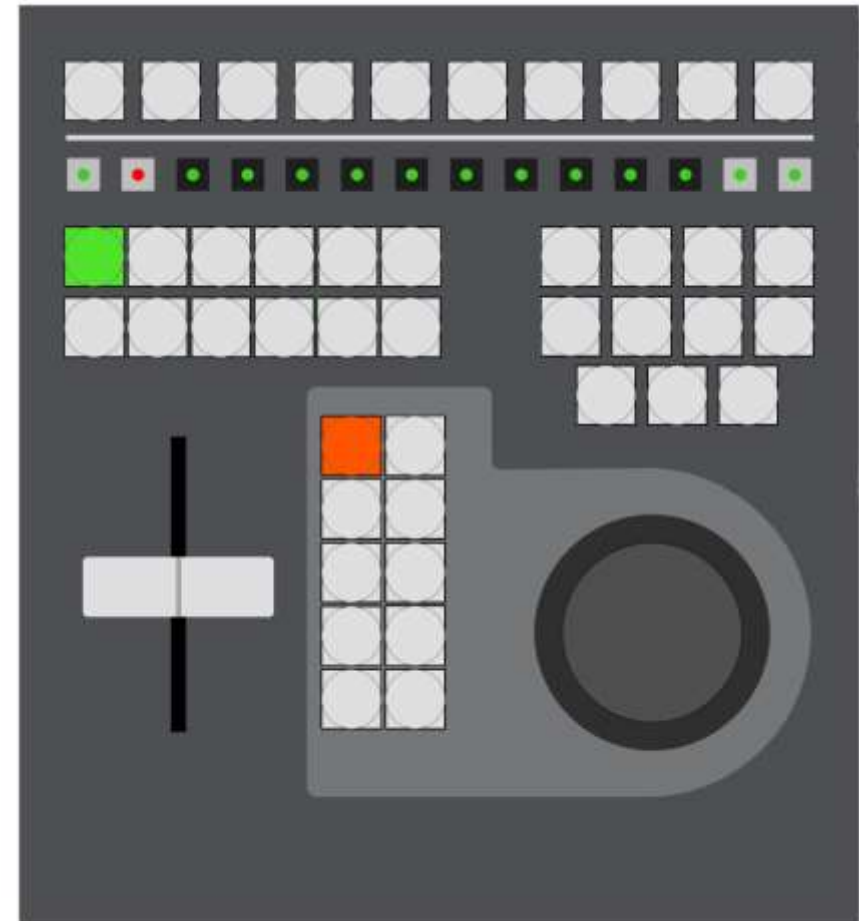
# ViBox SloMo

# RCU – ViBox Remote

New remote for ViBox SloMo 6, 8, 16 and 4k

Benefits :

- IP Based (TCP IP connection between the remote and the Back end server)
- Familiar for EVS operator
- Browse all the inputs synchronously even when in playout
- Remote capable (long distance over IP) (50 Mbps)



# Xport



Export clips in various format and wrapper :

- DNxHD
  - .mov
  - .Mxf
- H264
  - .mov
  - .mp4



# **ViBox – SloMo 4k**

Most Powerful Slow-motion Solution in the market

# ViBox8 4k -SloMo

**SIMPLY LIVE** ▶

## Specifications

- **Video :**
  - 6 x 12/3/1.5 Gbps SDI Inputs
  - 2 x 12/3/1.5 Gbps SDI Outputs
  - Options for **SSM** Inputs
  - 6 Preview and 2 PGM
  - Codec : Prores 422 (330 GB/h)in 4k, DNxHD in HD
- **Storage :**
  - Internal RAID storage 5x2TB (24 hours of 4k recording)
  - USB3 connectors for import from/export to external storage
  - Extendable to 5x4TB (48h of 4k recording)
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)
  - Dante support (Q3 2018)
- **Controller**
  - Touchscreen
  - Dedicated Controller



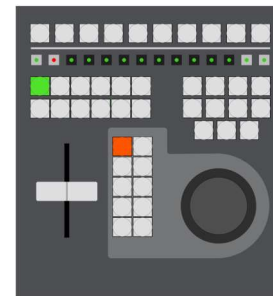
**ViBox8 4k SloMo**

# ViBox4 4k -SloMo



## Specifications

- **Video :**
  - 2 or 3 x 12/3/1.5 Gbps SDI Inputs
  - 2 or 1 x 12/3/1.5 Gbps SDI Outputs
  - Options for **SSM** Inputs
  - 2/3 Preview and 2/1 PGM
  - Codec : Prores 422 (330 GB/h) in 4k, DNxHD in HD
- **Storage :**
  - Internal RAID storage 5x2TB (24 hours of 4k recording)
  - USB3 connectors for import from/export to external storage
  - Extendable to 5x4TB (48h of 4k recording)
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)
  - Dante Support (Q3 2018)
- **Controller**
  - Touchscreen
  - Dedicated Controller



# ViBox4 4k SloMo

# **ViBox Mini**

The New compact and powerful solution  
**Shipping in July**



# ViBox Mini

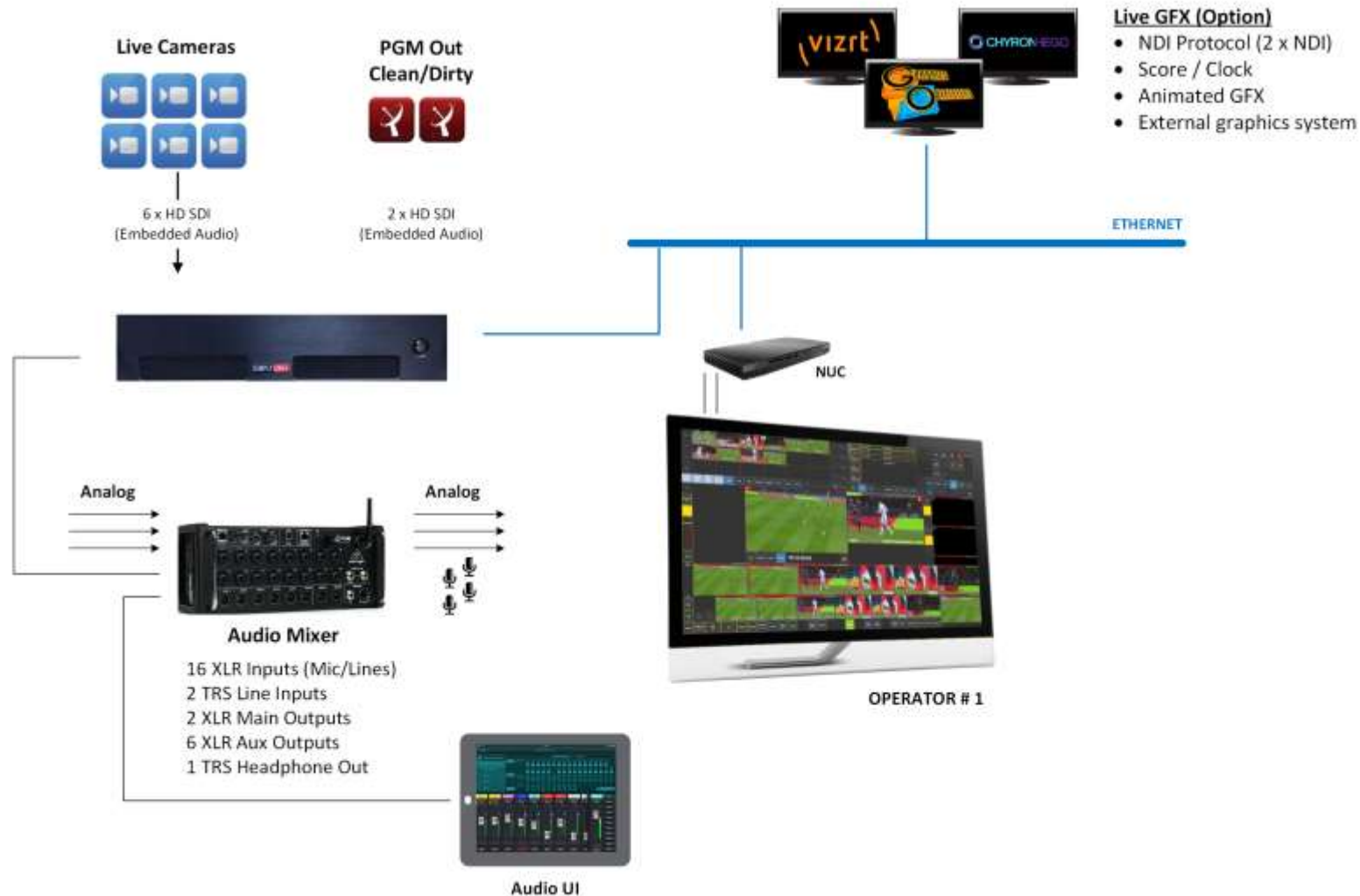
## Key Features and Objectives

- Portable, compact and powerful
- New entry level pricing structure
- Same feature as Full Vibox with a single user
- Applications :
  - All in one Live sports production
  - All in one portable presentation solution
  - Slow-motion/live editing application



- Ultra compact form factor: HxLxW - 11 x 37 x 25 cm
- Lightweight portability – 10 kg
- Powerful with SSM (super-motion) capture

# Vibox4/8 Mini - Prod



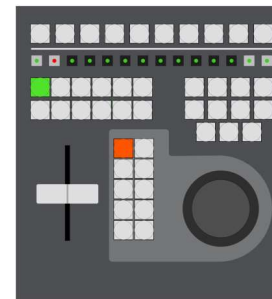
- 4 or 8-Channel Configuration
- Flexible I/O Options
  - SDI
  - NDI
  - RTMP
  - TS UDP

# Vibox4 Mini - SloMo



## Specifications

- 2 RU, L/W 37cm/23cm , 600 W, Windows 10, 10 kg
- **Video**
  - 2/3 x HD SDI/NDI Inputs
  - 2/1 x HD SDI/NDI Outputs
  - Options for **SSM** Inputs
  - Configs :
    - 3In + PGM / PRW
    - 2 In + 2 PGM
  - Codec : DNxHD 120/145
- **Storage**
  - 2 TB SSD (30h storage)
  - USB3 connectors for import from/export to external storage
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)
- **Controller**
  - Touchscreen or Dedicated Controller option

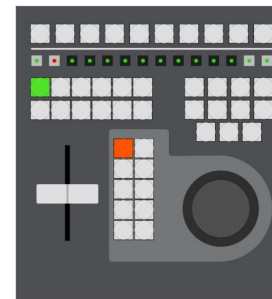


# Vibox8 Mini - SloMo



## Specifications

- 2 RU, L/W 37cm/23cm , 600 W, Windows 10, 10 kg
- **Video :**
  - 6 x HD SDI/NDI Inputs
  - 2 x HD SDI/NDI Outputs
  - Options for **SSM** Inputs
  - 6 Preview and 2 PGM
  - Codec : DNxHD 120/145
- **Storage :**
  - 2 TB SSD (30h storage)
  - USB3 connectors for import from/export to external storage
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)
- **Controller**
  - Touchscreen
  - Dedicated Controller



# Ref&Box

Powerful, Instant and Affordable Official Review Solution

# Review Solution Applications



- Football VAR
- Ice Hockey
- Rugby TMO
- Rugby Medical Protocol
- Basketball Referee Review
- Car Racing
- Handball
- Horse Racing & more

## 3 Platforms

- **Ref&Box4:**
  - 4 x HD SDI IN
- **Ref&Box8:**
  - 8 x HD SDI IN
- **Ref&Box16:**
  - 16 x HD SDI IN

**Ref&Box**

# Review Solution



## Functions

- **Video :**
  - 4 x HD SDI IN
  - 8 x HD SDI IN
  - 16 x HD SDI IN
- **Storage :**
  - Internal RAID storage 5x3TB (200 hours of HD recording)
  - USB3 connectors for import from/export to external storage
- **Audio**
  - Embedded audio: 16 tracks per video channel (input or output)
  - Analog Audio : 18ch In and 8ch Out (in option)
- **Controller**
  - Touchscreen + Shuttle express

# Ref&Box

# Review Solution



## Functions

- Select multiple machines for *more* than 4/8/16 inputs
- Super SloMo support: 2x, 3x, 4x and 6x
- Multi-view selections
- Push content to different users on the network
- Browse, search , play at various speed
- Pinch to zoom any picture in any layout
- Mark and save incidents
- Exports in various format
- Audio monitoring



**Ref&Box**



# Review Solution



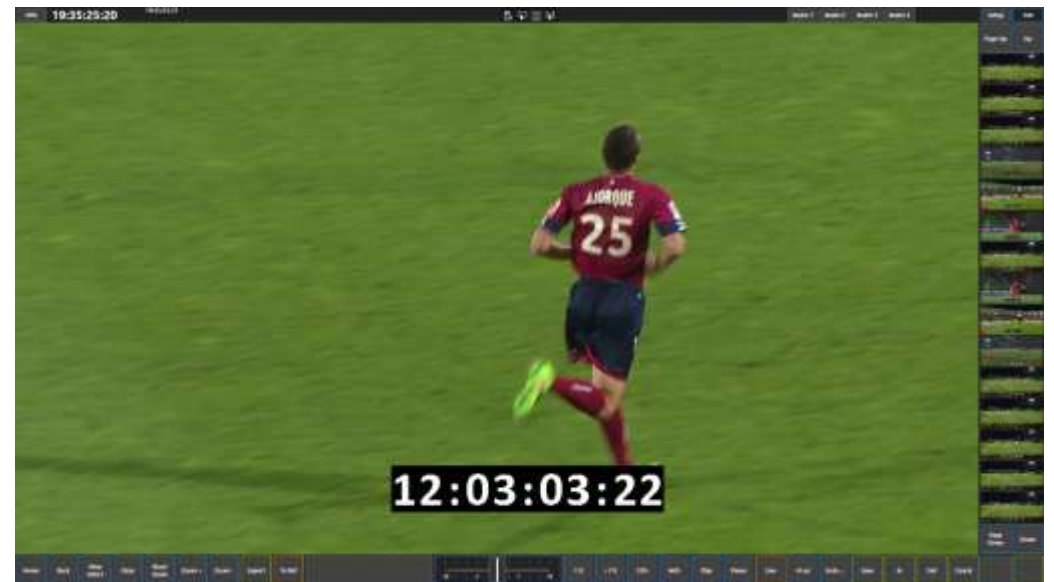
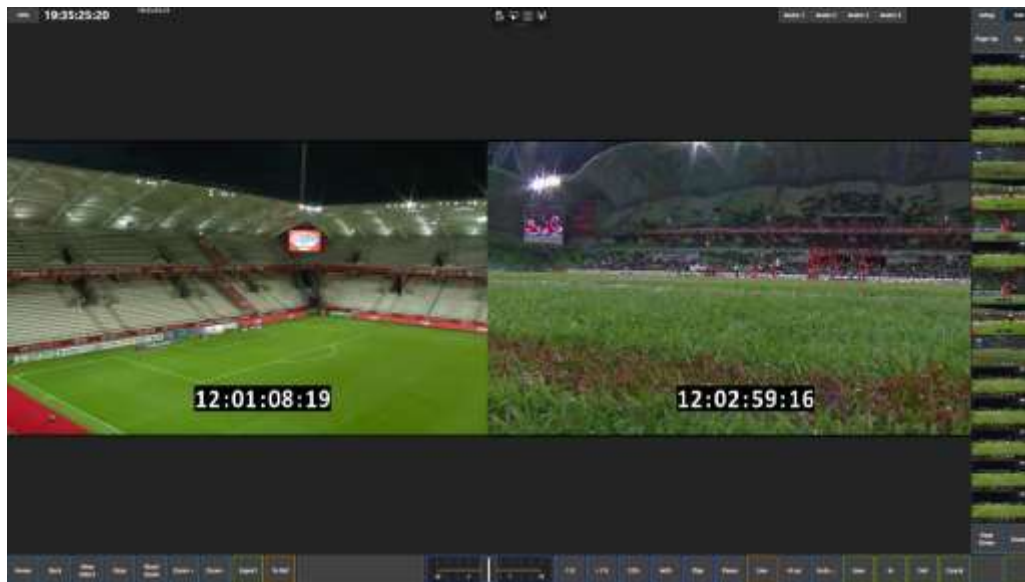
## Functions

- Flexible workflows with multiple roles
  - Master
  - Sync
  - Slave
- Remote capable with 150 Mbps per user
- Multi-machine capable
- Multi-site support
- External communication solutions using :  
Vokkero and Clearcom.
- Offline capable : Re-import clips in Ref&Box for offline review (Q1 2018)
- Shuttle Xpress controller available for jog

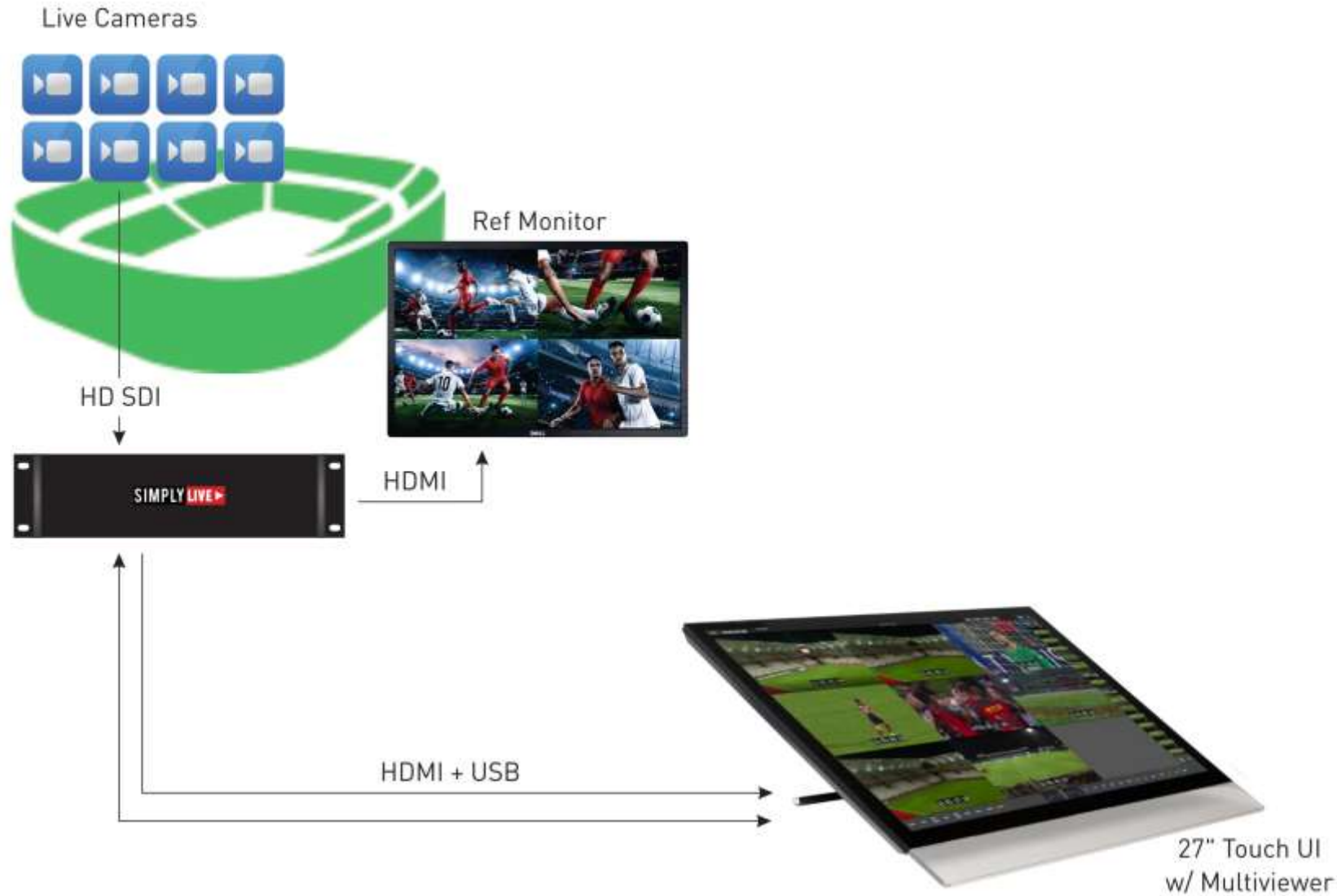


**Ref&Box**

# Ref&Box Layouts

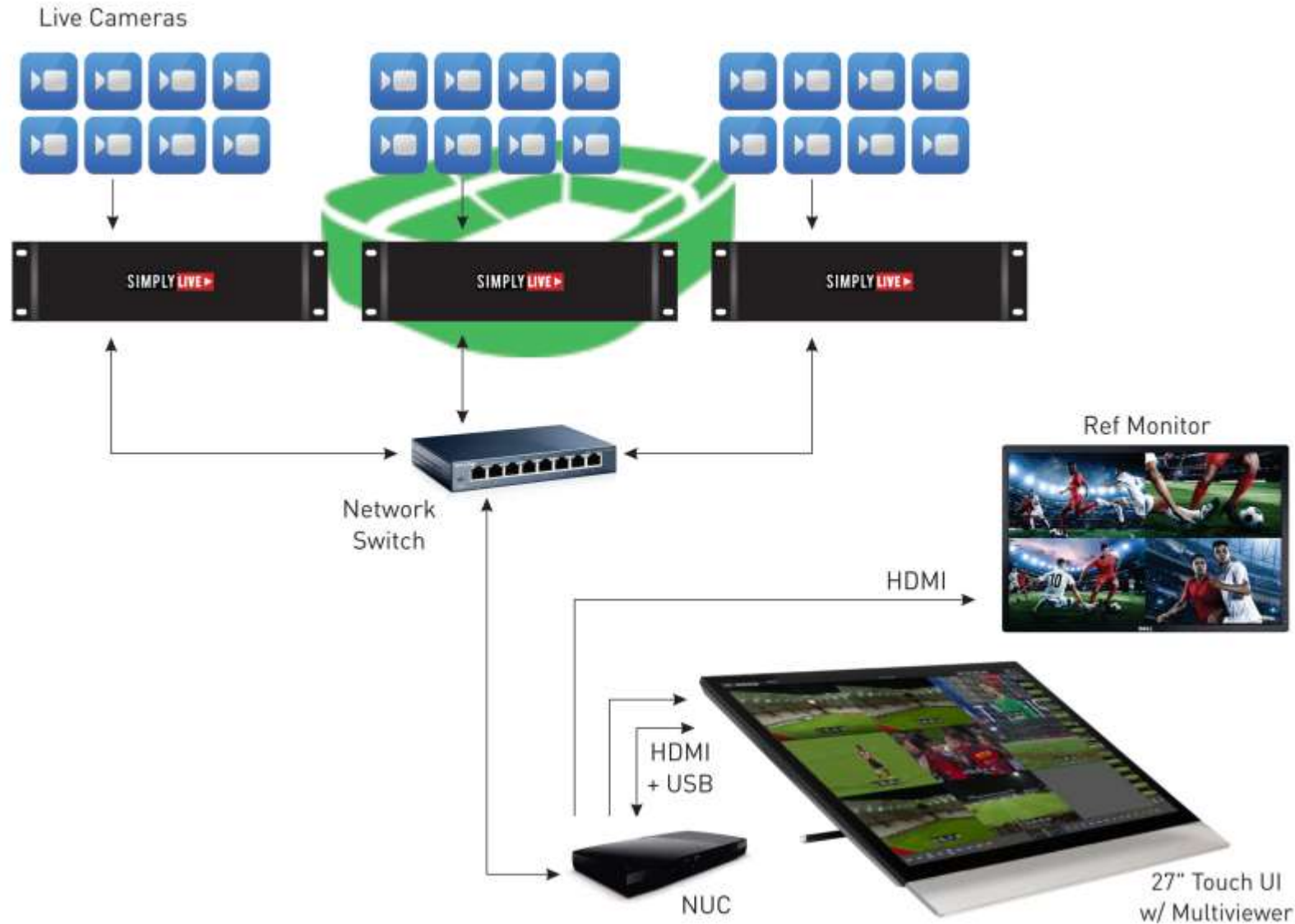


# Review Solution Local – single user



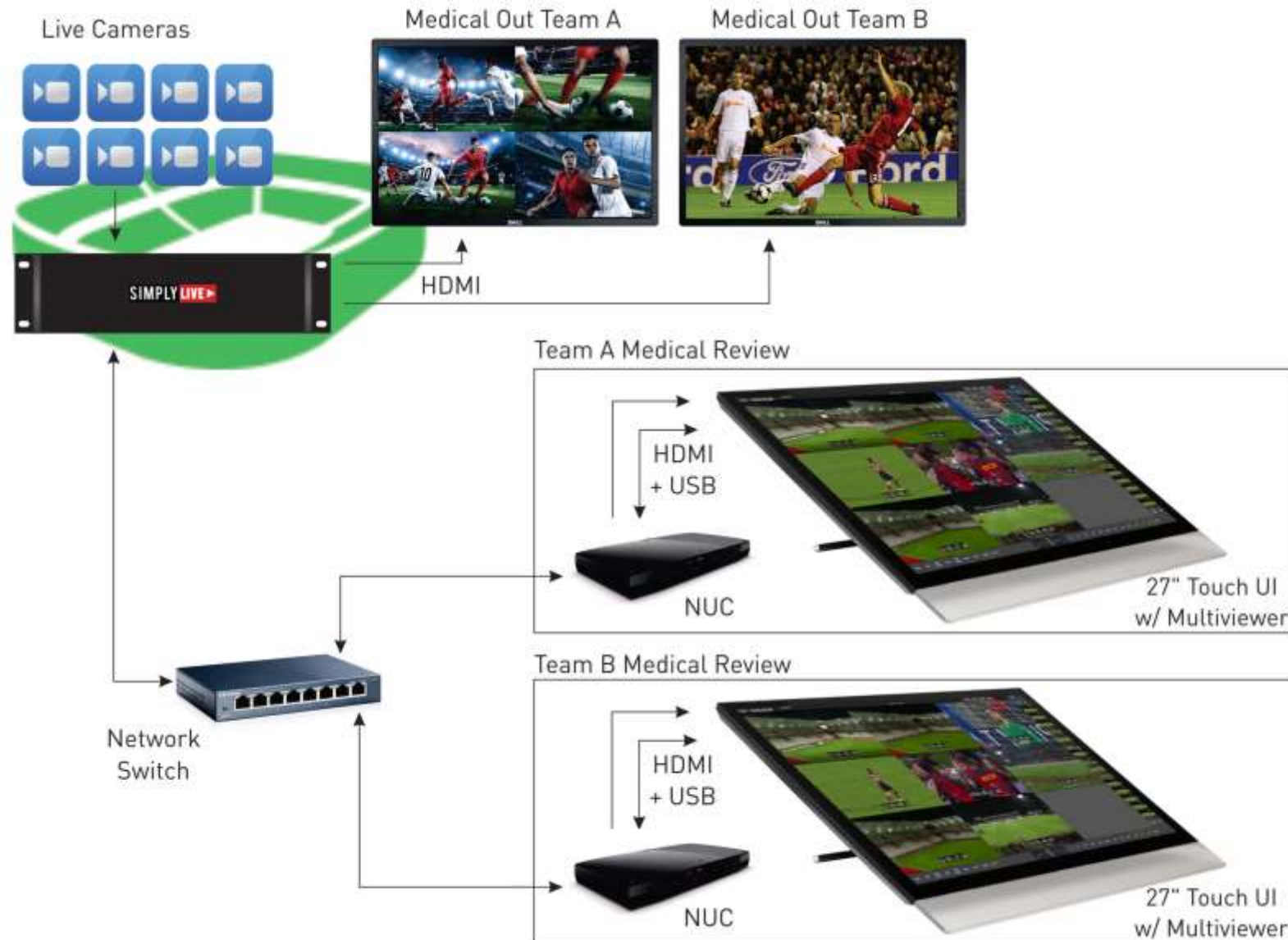
**Ref&Box**

# Review Solution Local – large setup



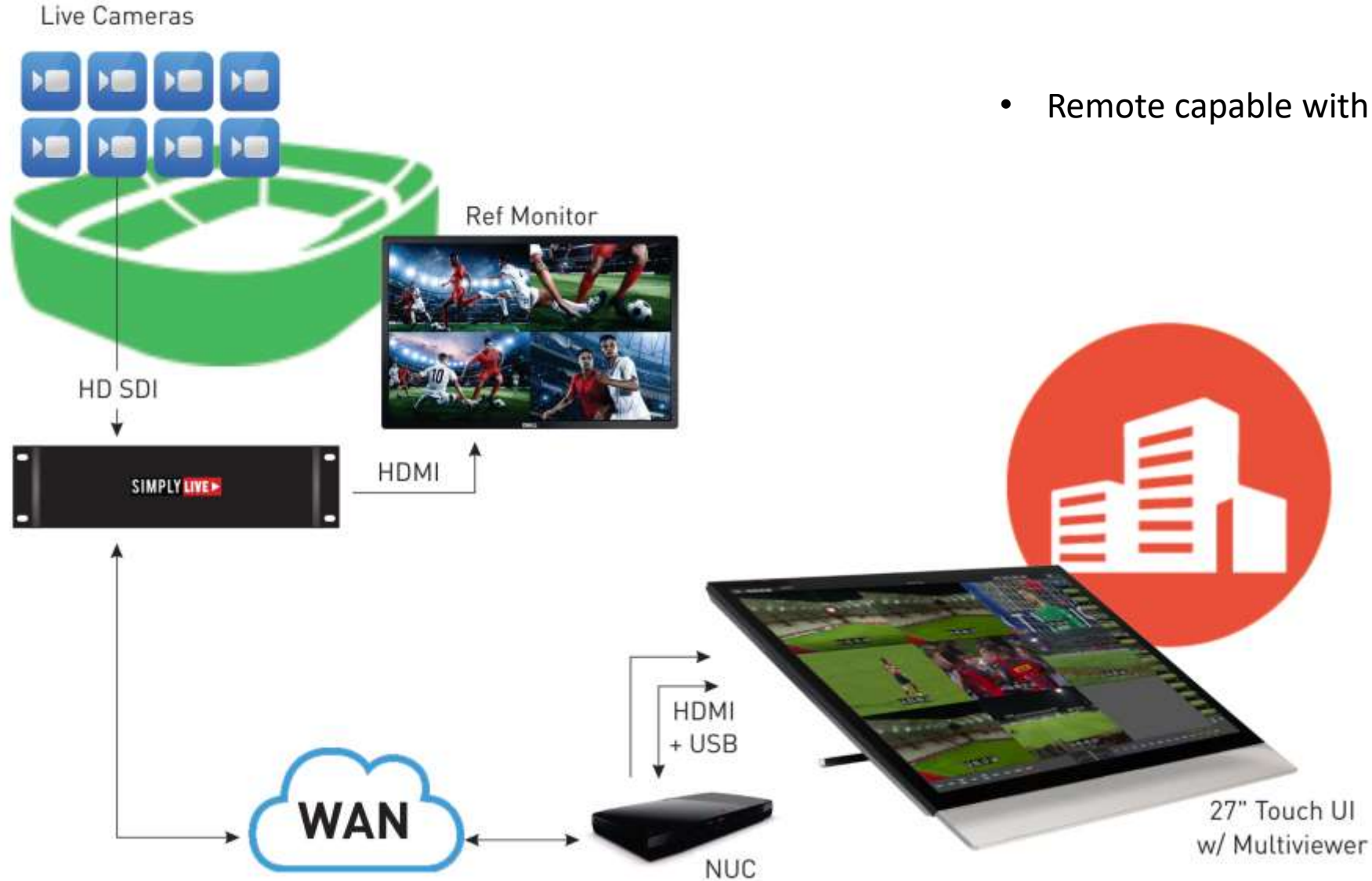
**Ref&Box**

# Review Solution Local – Multi-user



Ref&Box

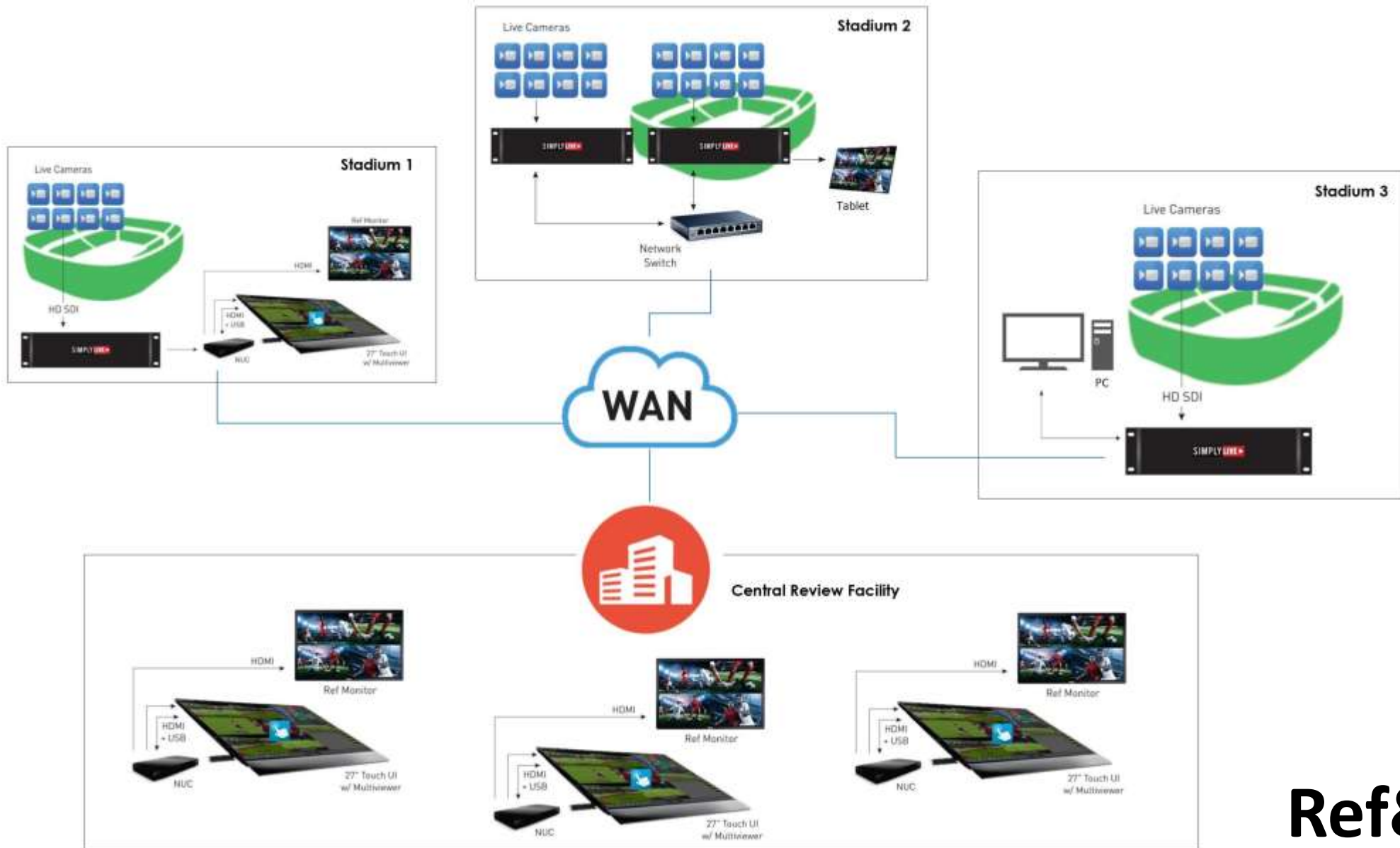
# Review Solution Local – Remote operation



- Remote capable with 150 Mbps per user

**Ref&Box**

# Review Solution Multi Stadium - Remote Operation



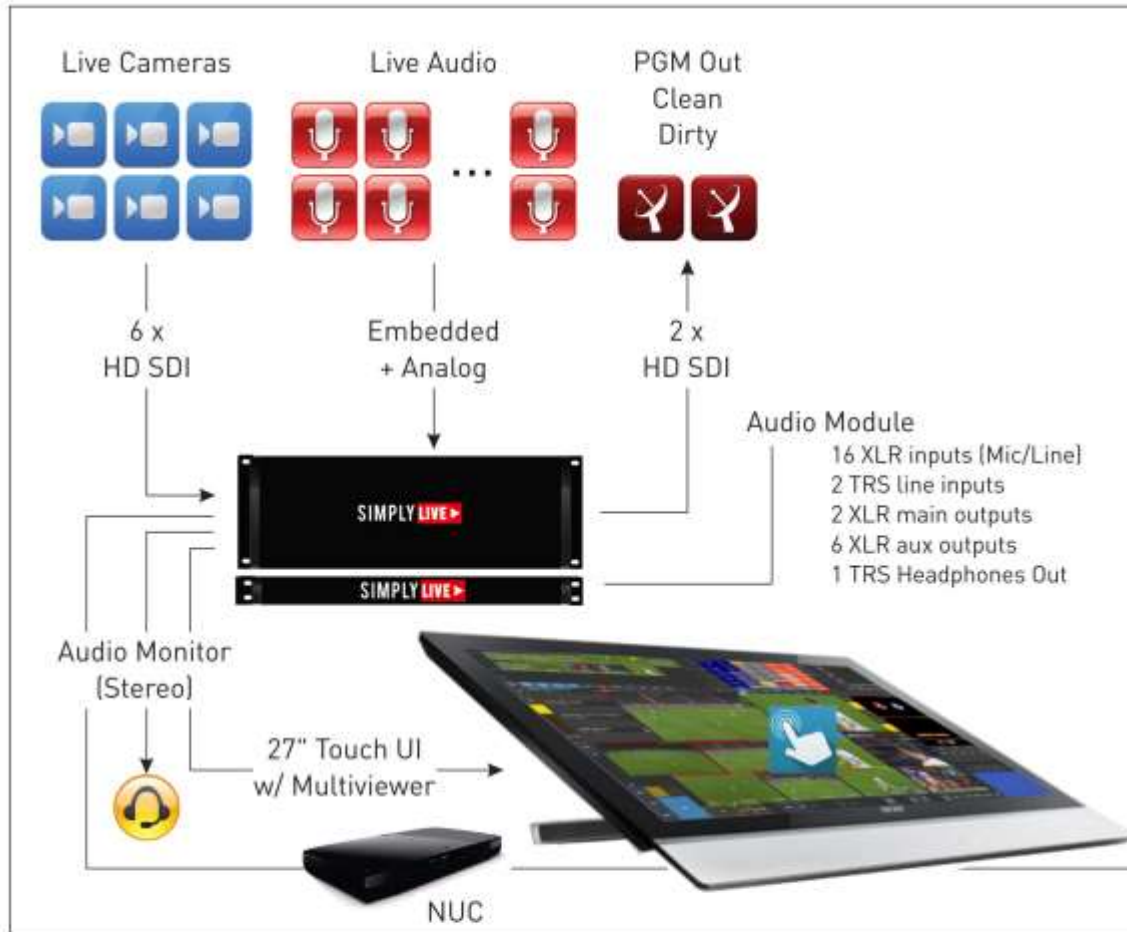
Ref&Box

# **The Simplylive Advantage**

Combine applications: ViBox Production & Ref&Box in a single system

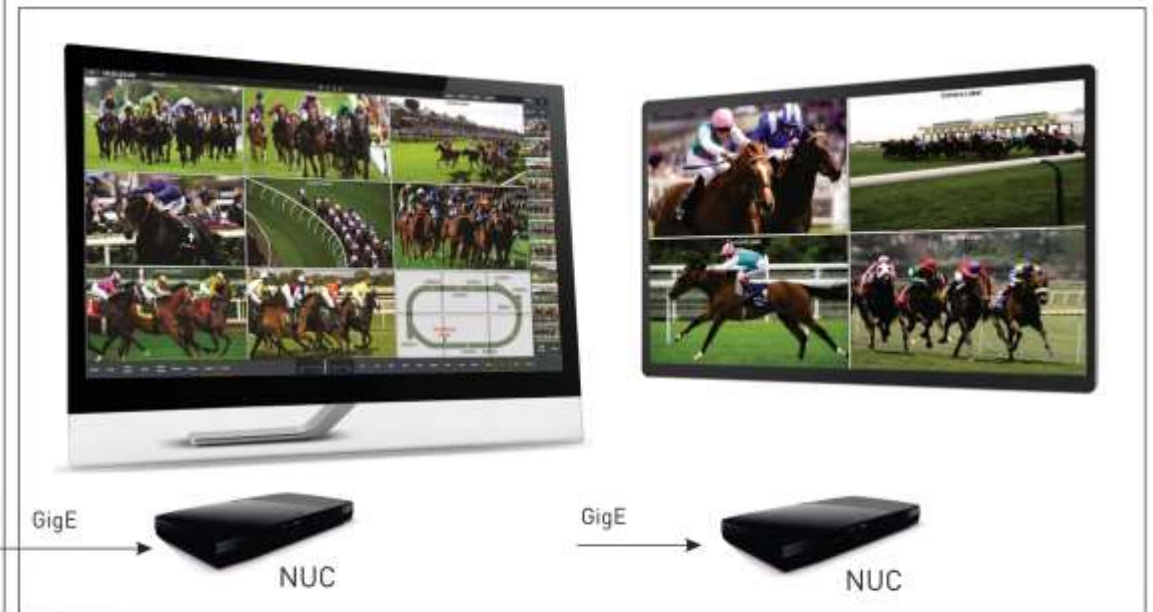


# Combined Solution: Production and Review



Live Production

- Up to 3 Users (option for 4<sup>th</sup> Slave Monitor)
- Record 6 HD Cameras + Clean + Dirty
- Official Review on 6 cameras + Clean and Dirty
- Export Clips in Hi-Res or H264 for archive or further official/steward review (offline mode)



Stewards Review

**SIMPLY LIVE** 

Thank You!