Skreens Skylar Service for Live Video Management on the AWS Cloud
Delivering Secure, Live Production Workflows for Dynamic Video Streaming

SKREENS

OVERVIEW

Consumers today demand personalized video content that's interactive and customizable in real-time, but most content providers lack the tools and infrastructure to create dynamic streaming experiences that incorporate video, web content, overlays, and interactive components that scale without adding latency and lag time.

Harnessing the latest in video transcoding technology from AMD Xilinx via Amazon EC2 VT1 instance. Skreens is a cloud-based visual engine that lets companies deliver personalized viewing experiences at low latency. The Skreens Skylar Service allows production teams to create custom mosaics via secure, remote workflows– all in real-time for distribution to mobile, desktop, and large-screen displays.

HIGHLIGHTS

Accelerated Transcoding for Low Latency Streaming

> AMD Xilinx acceleration technology via Amazon Web Serivces

> Sub-second latency, scalable to thousands of streams without adding lag

Interactive Multi-Layering and Personalization

> Combine, customize, and arrange any video, overlay, or interactive input

> One encoder per person for limitless personalization

Comprehensive Live Production Studio with Real-Time Control

> Real-time control to drag, drop, arrange interfaces while streaming

> RESTful API allows ease of integration with existing solutions

Security for Content Delivery and Remote Workflows

> Secure workflow to view and edit live video via remote production teams

> SSO-security and encryption protects video content in-transit and at-rest

END-APPLICATIONS

> Broadcast

> E-Sports

> Live Event Streaming

> Watch Parties

> Enterprise Collaboration

> Video Conferencing

> Signage

> Infrastructure Security

> Smart Cities

> Smart Homes

AMD
XILINX

POWERED BY AMD-XILINX ACCELERATED TRANSCODING

With the Skreens cloud video engine and production studio, companies can build personalized experiences for any display, harnessing the latest in accelerated video transcoding technology from AMD. Production teams can produce a single video stream by configuring and combining any type of content—including live video, live camera, backgrounds, overlays, web content, social media components, interactive components, audio, and more. Accessible via Amazon EC2 VT1 instances and powered by AMD Alveo U30 media accelerators, Skreens Skylar Services deliver lowest cost transcoding and scalability to thousands of streams to any device.
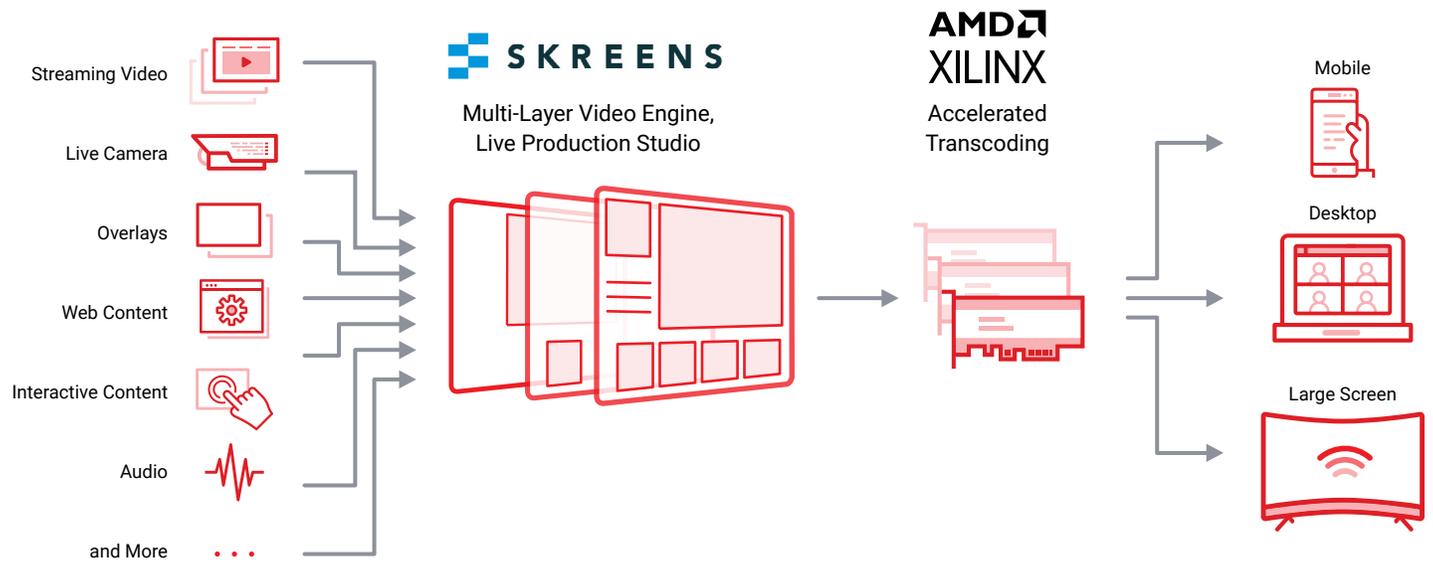
MULTIVIEW, MULTI-STREAM

Skreens solution enables users to build mosaics on-the-fly and stream to one or more locations in low latency—scalable to thousands of streams. Uses cases include traditional on-site control rooms, video conferencing for collaboration, video walls of multiple channels with dynamic overlays, and much more. Because Skreens Mosaics are built to operate in the cloud, users can "spin-up" as many mosaics as they want, reuse all the live content, or send it into their Skreens account - safely and securely.

Video Mosaics with Dynamic Overlays, Scalable to Thousands of Streams

AMD
XILINX

INTERACTIVE MULTI-LAYERING, LIMITLESS PERSONALIZATION

With Skreens Skylar Service for Live Video Management, users and administrators can unify and composite all their live video streams into a dynamic, seamless, and scalable multiviewer that is visible with sub-second latency. Easily apply intelligent and flexible in-video overlays and graphics, and securely store your video assets in a single repository for quick access using integrated tools that are part of the user-friendly studio ecosystem.

Low Latency

Live means live, reducing lag time of traditional networks by up to 30 seconds

Watch Party

All users experience the game in lockstep, enabling the living room watch party experience
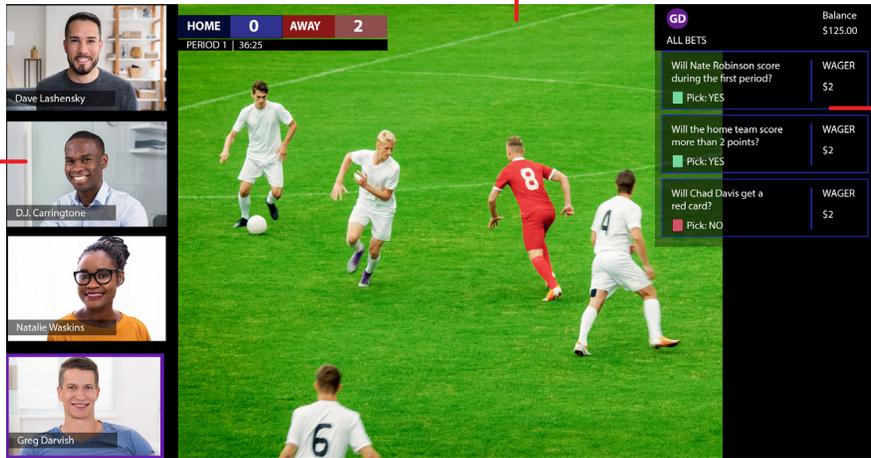
Live Betting

Low latency allows for in-game betting, with bets synced to live game action

Video Mosaics with Dynamic Overlays

COMPREHENSIVE LIVE PRODUCTION STUDIO WITH REAL-TIME CONTROL

Available as a SaaS for a turnkey solution or as PaaS for custom production environments, the Skreens Skylar Service integrates all the tools a broadcaster, content owner, or enterprise needs to produce dynamic viewing experiences. The service is quickly accessible via high-level RESTful API.

Complete Production Studio

**AMD
XILINX**
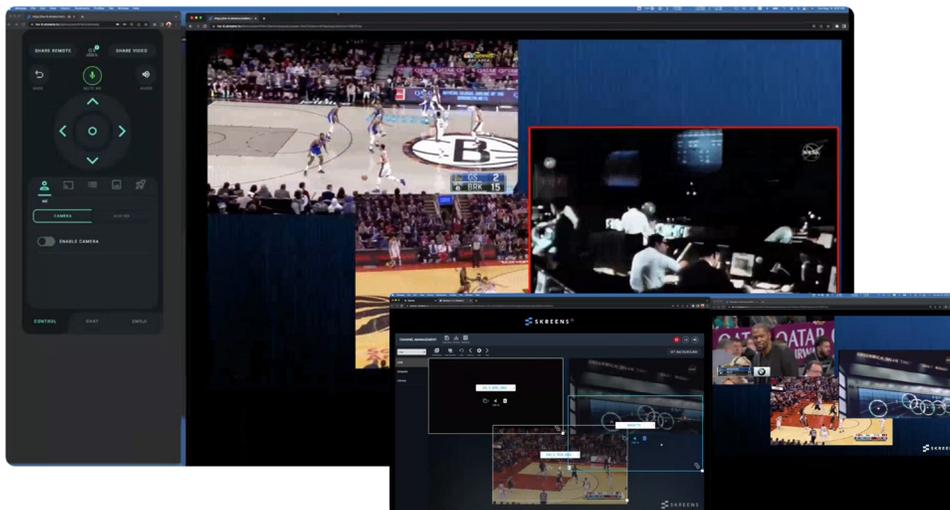
SPECIFICATIONS

PLATFORM FEATURES	
PaaS or SaaS	> Available as a SaaS for a complete solution with no development requirements > Available as a PaaS to integrate into existing workflow using RESTful API
Video Formats	> Codec: H.264, HEVC H.265, VP9 > Mosaic support up to 4Kp60 resolution > HLS and SRT formats > Full ABR ladder support with custom preset configurations
AWS EC2 VT1 Instance	> AWS cloud service eliminates complexity and reduces cost for video production > Up to 2x 4Kp60 down to 64x 1080p60 real-time streams simultaneously
Interactive Multi-Layering	> Integrate backgrounds, overlays, interactive components, social media components, video, live camera, audio > Dynamic Text Overlay support includes Evertz/EaseLive, Singular.live > Support for HTML-5 overlays, making interactivity embedded into video and control interface for reduced latency
Multiviewers & Mosaics	> Unify and composite video streams into a single stream for video wall mosaics > Scale to hundreds and thousands of video inputs while distributing in real-time > Transcode vide streams across multiple low latency output formats, including HLS or SRT, for flexible deployment > Supports mix of WebRTC, file-based, or live (SRT/RTMP) video streams
Content Library Management	> Securely store your video assets in a single repository > Scale from tens to thousands of videos, with real-time management and controlled user access
Live Production Studio/API	> On-the-fly, dynamic video editing with instantaneous effect > Integrate Skreens controller with your app or website > RESTful API allows ease of integration with existing production tools
Secure Workflow	> Okta-based, single sign-on (SSO) protects live video process from production to delivery > Secure, role-based user access and privilege management, with configuration and audit logs > Full administration and control from Skreens Skylar SaaS and PaaS
Deployment Formats	> CCDN and WebRTC network compatibility to scale to millions of users, e.g., Dolby/Millicast, Red5Pro > Deployment ready via GooglePlay, Apple AppStore, Apple TV, Fire TV

Powered by the Xilinx Alveo™ U30 Media Accelerator Card
via Amazon EC2 VT1 Instance or On-Premise

TAKE THE NEXT STEP

Learn more about Skreens at www.skreens.com

Test drive and view cloud subscription pricing at AWS Marketplace

Learn more about the Alveo U30 Media Accelerator Card at www.xilinx.com/u30