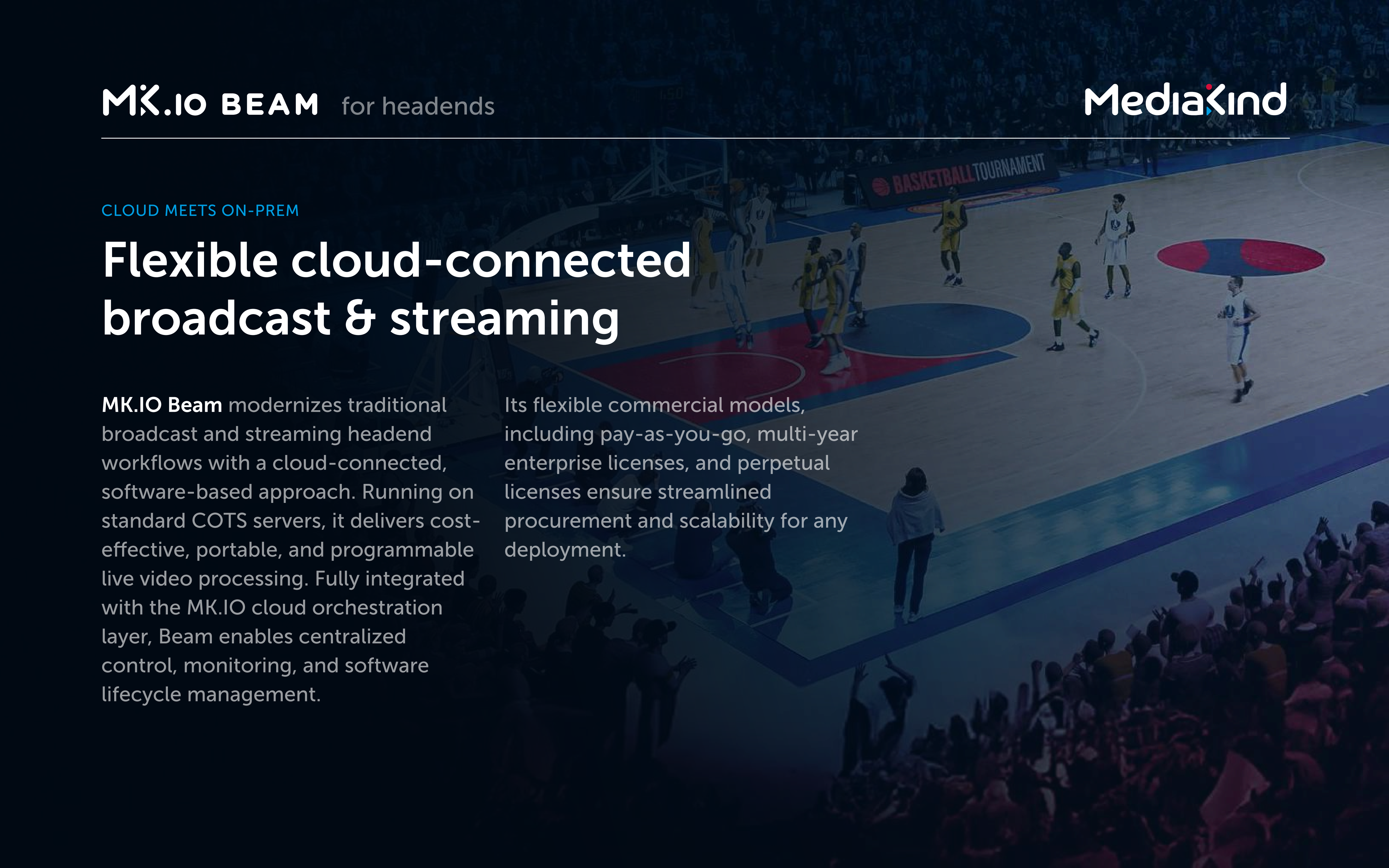


CLOUD MEETS ON-PREM

# Flexible cloud-connected broadcast & streaming

**MK.IO Beam** modernizes traditional broadcast and streaming headend workflows with a cloud-connected, software-based approach. Running on standard COTS servers, it delivers cost-effective, portable, and programmable live video processing. Fully integrated with the MK.IO cloud orchestration layer, Beam enables centralized control, monitoring, and software lifecycle management.

Its flexible commercial models, including pay-as-you-go, multi-year enterprise licenses, and perpetual licenses ensure streamlined procurement and scalability for any deployment.



Tech specs



INPUT	
Compressed input	IP inputs with IGMPv3-based redundancy, dual multicast redundancy, Pro-MPEG FEC, SRT, RTMP, MPEG-2 TS
Basedband input	3G/HD/SD-SDI, SDI over IP (SMPTE ST 2022-6), SMPTE ST 2110 with NMOS IS-04, IS-05

BROADCAST OUTPUT	
Formats	SPTS, MPTS
Protocol	IP, ASI
Multiplexing	Full remuxing with SI/PSI generation, HbbTV, terrestrial
Encryption	DVB-CSA, BISS CA, AES, Director

VIDEO ENCODING	
Video codecs	HEVC, H.264, MPEG-2
HDR compatibility	HDR10, HLG10, PQ10, and Dolby Vision 8.1 & 5.0
Rate control	CBR, VBR, and CVQ
Data rates	100 kbps to 60 Mbps

STREAMING OUTPUT	
Streaming	Apple HTTP Live Streaming (over CMAF or TS), Microsoft Smooth Streaming, DASH, and RTMP. Low-latency chunking
Multi-audio	Multiple audio streams per output for HLS, Smooth Streaming, and DASH
Content protection	Microsoft PlayReady DRM for HLS/TS, Smooth Streaming, and DASH. Apple Segment for HLS/TS. FairPlay for HLS/TS and HLS/CMAF. Adobe Primetime Access, Widevine, PlayReady, and Marlin for DASH.
Content publishing	Pull scenarios in just-in-time packaging and publishing to local storage or WebDAV servers
CDN integration	Interface with leading CDNs, certified with Akamai MSL 4 for HLS and DASH

MONITORING & CONTROL	
Cloud control	MK.IO
Interface	Web interface or REST API
Standard protocols	SNMP, NTP, IGMP

AUDIO ENCODING	
Audio codecs	MPEG-1 Layer-II, AAC, AAC 5.1, HE-AAC v1 & v2, HE-AAC 5.1, Dolby Digital (AC3) 2.0 & 5.1, Dolby Digital Plus (E-AC3) 2.0 & 5.1
Audio channels	Up to 8 stereo pairs per service
Passthrough	MPEG 1 LII, DD, DD+
Data rates	From 4.75 kbps to 320 kbps (from 64 to 1024 kbps for DD+)
Processing	Loudness control

METADATA AND AD INSERTION	
Subtitles	Passthrough and translation for EIA 608/708 Closed Captions, SCTE-20, DVB Teletext, DVB Subtitles, SCTE-27, and ARIB B24
Streaming subtitles	WebVTT for HLS, DFXP for HSS, WebVTT or SMPTE-TT for DASH
Ad insertion	EBIF/EISS/AIT, SCTE-35 passthrough
Nielsen	Watermark extraction for multi-screen devices



# Commercial

Multi-year ELA includes 50% channel capacity uplift, full capability, and Beam Enhanced support.

Perpetual includes decode & encode. Multiplexer/packager priced based on throughput requirements.

## ELA

	Per channel rate
Premium encode and multiplexer/packager, all-inclusive 150% channels	\$73 /month

## PERPETUAL

	Per channel
Standard encode	\$1,670
Premium Adds UHD and JPEG-XS	\$7,000
Plus:	
Multiplexing	\$120 /Mbps
Packaging	\$30 /Mbps

Pricing valid until 11/15/2025

# Dimensioning

MK.IO Beam runs on certified COTS servers or on MediaKind-provided servers.

## Broadcast

Maximum capacity for Standard channels

### A-SERIES

Short form-factor, economical, low density

	Maximum capacity
SD AVC	8 channels
HD AVC	4 channels
HD HEVC	3 channels

### E-SERIES

Standard form-factor, high density, high I/O

	Maximum capacity
SD AVC	58 channels
HD AVC	32 channels
HD HEVC	25 channels

## Streaming

Maximum capacity for 5 profiles

### E-SERIES

Standard form-factor, high density, high I/O

	Maximum capacity
HD AVC	21
HD HEVC	12

# Support

## HARDWARE SUPPORT

### Beam Hardware

For MK.IO Beam deployments on MK.IO Beam hardware.

- ✓ Hardware repair services
- ✓ MediaKind remote diagnostics
- ✓ Coverage includes MK.IO Beam hardware and I/O cards (not software)

## SOFTWARE SUPPORT

### Beam Base

- ✓ Access to ticketing system

### Beam Enhanced

Everything in Beam Base and:

- ✓ Reactive support services with service-level agreement (SLA) and service credits
- ✓ Access to latest software releases
- ✓ Technical support ops available on chargeable basis

### Beam Premier

Everything in Beam Enhanced and:

- ✓ Assigned customer success manager
- ✓ Dedicated Slack channel
- ✓ 5 hours per month of technical ops support
- ✓ Additional technical support ops hours at discounted rate

## SLA response times

Severity	1 – Critical	2 – Major	3 – Minor	4 – Technical query
Response	30 min	1 hour	12 business hours	5 business days
Remedy	8 hours	16 business hours	Date shared within 10 business days	–
Restore	Date shared within 10 business days	Date shared within 10 business days	–	–

## Cold spares

Customers are encouraged to purchase cold spares:

- Ideal for mission-critical environments
- MK.IO Beam software entitlements are easily transferred to spare units
- MK.IO Beam licences tied to MK.IO account for seamless reallocation