

VIDEO WALL & REMOTE DISPLAY MANAGEMENT

Video walls without the video wall budget.

XCube lets transportation agencies build and drive video walls and remote displays from modular, low-cost device units — often an order of magnitude cheaper than traditional monolithic systems.

~10xlower cost than monolithic
walls**1x1 to 7x6**

layouts, switched on the fly

**Standard /
Pro /
High Density**

cube unit types

REST API

for every capability

What XCube is

Robust video wall and remote display systems, at a fraction of the cost of traditional monolithic hardware.

XCube is a physical display management platform for TSMO agencies. It is highly reliable and modular, with intelligent real-time monitoring and management, a modern browser-based interface, and a fully featured REST API for external-system integration. It scales through the simple addition of XCube device units, with each deployment driving multiple video walls and remote displays. The central Display Manager deploys on private virtualized environments, bare-metal servers, or commercial cloud.

BUILT FOR THE MANY PLACES OPERATIONS NEED EYES ON GLASS:

Traffic management centers

Emergency operations centers

Maintenance & district offices

Executive & public lobbies

Remote and satellite displays

Partner agencies

First responders

Field & shift supervisors

CAPABILITIES

A comprehensive platform, end to end

WALL CONTROL & LAYOUT

Dynamic layout selection

Switch a wall between dozens of layouts on the fly, from a single 1x1 display through to a 7x6 grid (or 6x7 in taller orientations) — no reconfiguration, no downtime.

Wall presets

Save a wall's layout — merged cells included — and its stream and tour assignments as a named preset, then recall the whole arrangement in one action.

Cell merging

Merge any rectangle of cells, Excel-style, so a single feed spans them — spotlight one camera large while the rest of the grid keeps playing, then unmerge in one action.

Intuitive operator interface

Drive every wall from one browser-based view — assign content to cells, switch layouts, and monitor unit health at a glance.

CONTENT SOURCES

Live video & video tours

Assign any configured stream to a cell, or a video tour that cycles a sequence of streams on a dwell timer. Tours are selected exactly like individual streams.

Web pages

Point a cell at any web page — dashboards, weather, incident boards — with an optional automatic reload interval.

XCast desktop sharing

A downloadable Windows app casts a workstation's desktop, a single display, or one application window to a wall cell — selected just like a camera stream.

CUBES & DISPLAYS

Modular, scalable hardware

Add capacity one XCube unit at a time. Each deployment manages multiple video walls and remote displays from a single platform.

Real-time unit monitoring

Every unit reports online / offline state continuously, and can be restarted or rebooted remotely from the browser.

Merged multi-output displays

XCube Pro units merge their physical outputs into one larger display — horizontal, vertical, or quad — with per-connector placement and rotation.

INTEGRATION & ADMINISTRATION

XFlow integration

Paired with the XFlow video management platform, operators get in-browser video playback and live PTZ camera control from the wall view itself.

Scoped access & full REST API

Restrict each account to the walls it may control, and drive every capability — users, walls, cubes, streams, tours — from a fully featured web API.

Snapshot cell overlays

Generate still images at a configurable interval for use as display cell overlays.

Supported protocols

SUPPORTED INPUTS

RTSP / UDP (RTP, RTCP)

RTSP Multicast

RTSP / TCP

RTSPS

RTMP

RTMPS

Multicast TS

HLS

DASH

Non-exhaustive. Additional formats can be supported — contact Optima DTS to discuss a specific source. XCube units drive physical displays directly; video is decoded and presented at the cube, not restreamed.

Built to scale, deployed your way

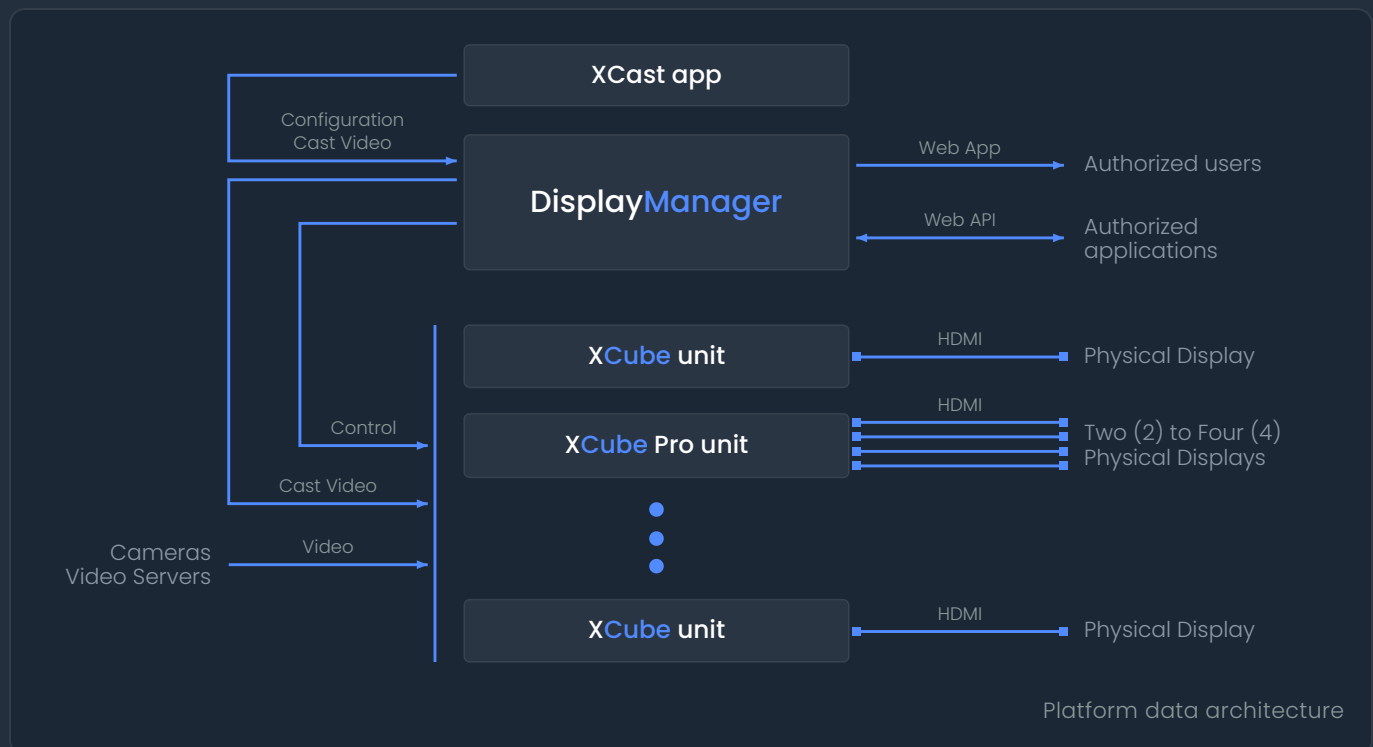
XCube Unit

The device firmware — Go and C/C++ — delivers high-quality video playback at low latency and resource cost.

XCube Display Manager

The central component: control, monitoring, and configuration for the entire platform.

Scale by adding XCube device units. Deploy the Display Manager on private virtualized environments, bare-metal servers, or commercial cloud.



Deployed in transportation operations centers to drive video walls and remote displays at a fraction of traditional cost.

Bring XCube to your operation.

Additional source formats can be supported. Contact Optima DTS to discuss your deployment or arrange a demonstration.

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