



HIGH QUALITY IP VIDEO MULTIVIEWERS (24 X 2/64 X 2)

DESCRIPTION

The Kaleido-IP Video Multiviewer offers the most simultaneous video and audio program decodes in the industry, including MPEG-2, H.264/AVC, AAC, AC-3 and MPEG-1. Possessing superior layout flexibility and remarkably easy to use, Kaleido-IP monitors local and remote IP multicast streams, either in single or multi-program transport stream formats. Unique cluster feature supports combining of multiple units to support the very largest monitoring requirements. Thanks to its advanced signal quality probing and alarming, it stays on top of video and audio faults, including freeze, black and silence.

KEY FEATURES AND BENEFITS

Industry leading audio/video decoding

- › Leads the industry in offering the highest number of simultaneous video and audio program decodes
- › Supports video compression formats: MPEG-2, H.264/AVC
- › Supports audio compression formats: HE-AAC, AAC, AC-3, MPEG-1, MPEG-2
- › Unlimited number of audio decode (stereo and 5.1) per program
- › Independent dual outputs (up to 1920 x 1200 resolution)
- › Dual high quality audio monitoring output (stereo with downmix or 5.1)

Fully scalable, integrated IP and Baseband video monitoring

- › Baseband and IP sources can be monitored together, on one or more displays, by integrating Kaleido-IP with Kaleido multiviewers
- › Can be integrated with other Kaleido multiviewers using Cluster feature for seamless operation across multiple monitors
- › Provides integrated monitoring platform with iControl for SNMP-based facility monitoring and control

Superior layout flexibility and ease of use

- › Any of the video streams can be displayed, multiple times, at different resolutions and sizes up to full screen, on the multiviewer outputs
- › Flexible multi-language DVB subtitles monitoring
- › Simple and flexible layout creation with powerful XEdit layout editor, which can be used across all models of Kaleido processors
- › Fast and easy on-screen mouse control

Advanced signal quality probing and alarming

- › Performs detection and alarms on video and audio faults, including freeze, black and silence
- › Closed captioning, DVB subtitles and XDS Metadata extraction and alarming
- › Performs macro-block detection and audio loudness monitoring *
- › PSIP information and bandwidth information display *

Local and remote IP video monitoring

- › Monitoring of local and remote IP multicast streams, either in single or multi-program transport stream formats
- › Side-by-side monitoring of core program streams alongside video/audio proxies generated by Miranda's signal processors

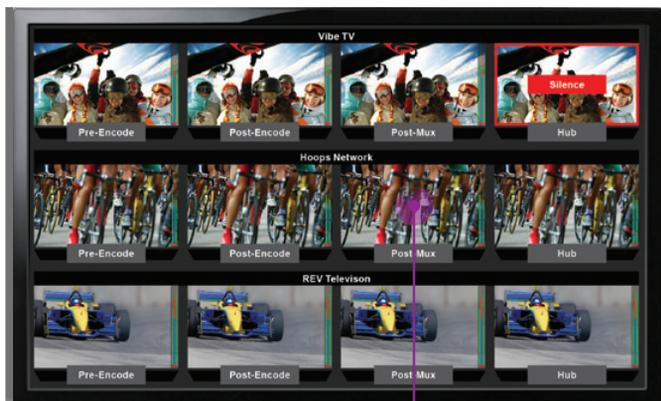
Robust platform

- › Based on Kaleido's award-winning technology
- › High power Linux OS platform
- › 1RU frame (Kaleido-IP X100), 2RU frame (Kaleido-IP X300)
- › Redundant power supply
- › Up to 6 GigE ports (Kaleido-IP X300)
- › GPI I/O support via Miranda's Densité GPI-1501

Additional input formats

- › ASI and RF via Miranda's Densité IRD-3802/3811
- › Set-top-box monitoring via EdgeVision streaming output

* Check for availability



Visualize signals at different monitoring points including remote unmanned hubs with up to 6 GigE ports connectivity. Quickly identify the location of the problem and dispatch the correct fix agent

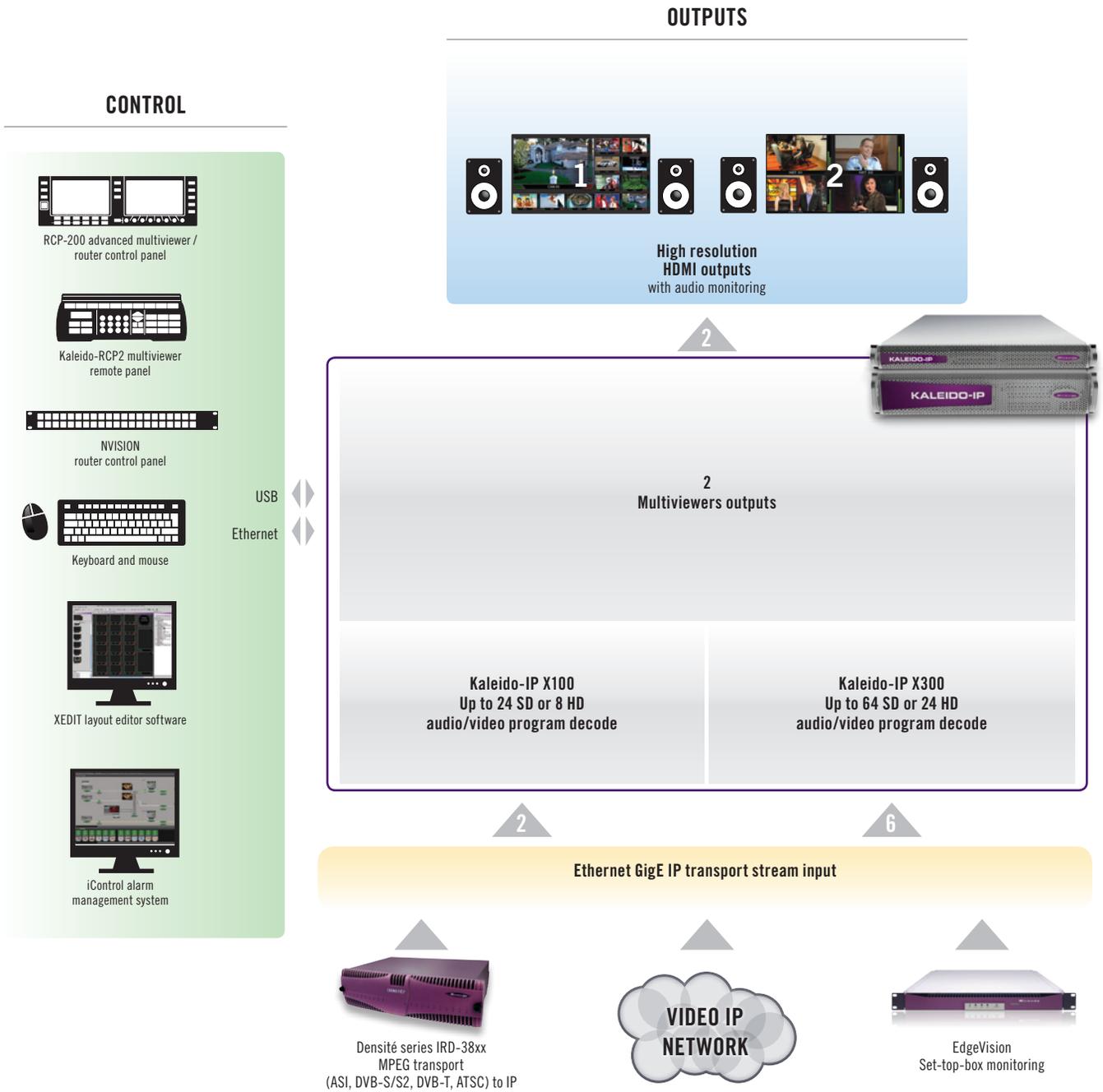


On-exception alerting and visualization to keep the operator's attention where you need it with Penalty Box actions

Monitor hundreds of channels with automatic cycling actions using iControl

Kaleido-IP

Overview of functionality



KALEIDO MULTIVIEWERS

Kaleido-IP

High quality IP video multiviewers

TECHNICAL SPECIFICATIONS

IP INPUTS

Physical: 2 Gb Ethernet with RJ45 connector (mgmt and data)
2 or 4 additional data Gb Ethernet with RJ45 connector (optional on KIP-X300)

Transport: MPEG transport streams over UDP or RTP Multicast/Unicast IGMPv3 SSM/SFM
Multi Program Transport Streams (MPTS)
Single Program Transport Streams (SPTS)

OTHER INPUT FORMATS

ASI: Densité IRD-3802 (optional)
ATSC RF: Densité IRD-3811-VQ (optional)
DVB-S/S2 RF: Densité IRD-3811-DVB-S2 (optional)
Set-top-box: EdgeVision (optional)

VIDEO DECODERS

Standard: MPEG-2
H.264/AVC (ITU-T H.264)

Chroma format: 4:2:0 and 4:2:2

KIP-X300 performance: Concurrent decoding of 64 SD MPEG-2 or, 24 HD MPEG-2, or 32 SD H.264 or 16 HD H.264 video programs

KIP-X100 performance: Concurrent decoding of 24 SD MPEG-2 or, 8 HD MPEG-2, or 12 SD H.264 or 6 HD H.264 video programs

AUDIO DECODERS

Standard: MPEG-1 layer 1
MPEG-1 layer 2
MPEG-2 layer 1
MPEG-2 layer 2
Dolby Digital AC-3 (optional)
AAC and HE-AAC (optional)

VIDEO DISPLAY OUTPUTS

Two (2) independently configurable and operable display outputs

Connectors: HDMI or Display Port

Standard: Display Port 1.1a
HDMI 1.3a

Resolution: up to 1920x1200 at 60 Hz

PHYSICAL KIP-X300

Height: 3.5 in (89 mm) 2RU
Width: 17.2 in (437 mm)
Depth: 25.5 in (648 mm)
Weight: 52 lb (23.6 kg)
Power supply: 700 W (1+1) hot swappable, redundant power supply, 10-4 A
Nominal power: 400 W
AC: 100-240 V, 60-50 Hz
Operating temperature: 10-35 °C (50-95 °F)

PHYSICAL KIP-X100

Height: 1.7 in (43 mm) 1RU
Width: 17.2 in (437 mm)
Depth: 19.98 in (508 mm)
Weight: 33 lb (15 kg)
Power supply: 400 W (1+1) hot swappable, redundant power supply, 6-3 A
Nominal power: 151 W
AC: 100-240 V, 60-50 Hz
Operating temperature: 10-35 °C (50-95 °F)

OPERATION AND CONFIGURATION

On-screen control: KALEIDO-RCP2 (optional)
Source and layout configuration: XEdit
Alarms management: iControl (optional)

DISPLAY OUTPUT EXTENDER VIA FIBER OPTIC

Device: DXF-200 (optional)
Distance: 1 km (3280 ft)
Fiber optic cable: Multi-mode 50 or 62.5/125 SC
Connector: SC

REMOTE VIDEO DISPLAY OUTPUT VIA STREAMING

Device: EdgeVision (optional)

ORDERING INFORMATION

KIP-X300 Kaleido-IP X300 multi-image IP processor. Ultimate processing performance for up to 24 HD or 64 SD MPEG-2 program decodes. Includes 2 independent DVI/HDMI/DP outputs, 2 GigE ports, redundant power supply, 2RU frame and 8 SD video program decode license

KIP-X100 Kaleido-IP X100 multi-image IP processor. Compact processing performance for up to 8 HD or 24 SD MPEG-2 video program. Includes 2 independent DVI/HDMI/DP outputs, 2 GigE ports, redundant power supply, 1RU frame and 4 SD video program decode licenses

VIDEO DECODE LICENSES

KIP-OPT-DEC-SD Additional decode license for a single SD MPEG-2 or H.264 video program

KIP-OPT-DEC-HD Decode license for a single HD MPEG-2 or H.264 video program

KIP-OPT-DEC-SDPRO Decode license for a single HD MPEG-2 or H.264 professional video (4:2:2) program

KIP-OPT-DEC-HDPRO Decode license for a single SD MPEG-2 or H.264 professional video (4:2:2) program

AUDIO DECODE LICENSES

KIP-OPT-DEC-DD-5.1 Decode license for a single Dolby Digital 5.1 (AC-3) program

KIP-OPT-DEC-DD-2.0 Decode license for a single Dolby Digital stereo (AC-3) program

KIP-OPT-DEC-AAC-5.1 Decode license for a single Advanced Audio Codec (AAC) 5.1 program

KIP-OPT-DEC-AAC-2.0 Decode license for a single Advanced Audio Codec (AAC) 2.0 program

PROBING LICENSES

KIP-OPT-AV-PROBE Baseband probing license for a single program (black, freeze, silence)

KIP-OPT-AUD-PROBE Baseband probing license for a single radio program (audio only) (silence and overload)

KIP-OPT-CSX Metadata extraction license for a single video program (CC 608/708, WST)

HARDWARE OPTIONS

KIP-OPT-ETH-2 Option for 2 extra GigE RJ45 ports. Available only on KIP-X300 frame

KIP-OPT-ETH-4 Option for 4 extra GigE RJ45 ports. Available only on KIP-X300 frame

KIP-RAILS-001 Short rails kit for KIP-X300 frame (19 in to 26.6 in rail, quick release, tool-less)

KIP-PSU-001 Spare power supply for KIP-X300 frame

KIP-PSU-002 Spare power supply for KIP-X100 frame

KALEIDO-RCP2 Ethernet remote control panel and KM gateway

KRCP-RK2 Kaleido-RCP2 rack mount bracket

DXF-200-C DVI/HDMI optical extension system with cables for HDMI devices with no lock

DXF-200-PSU DXF-200 power supply (1 x sub-module), two are required for each optical extension system

DXF-TRAY 8 DXF-200 Tx or Rx module tray with redundant PSU