

High performance DisplayPort video recorders providing the highest image quality, speed and storage efficiency.
Up to 4K x 2K at 60Hz true lossless recording.



- DP 1.2 video format
- Up to 4096 x 2160 at 60 Hz
- Non-intrusive, failsafe video capture
- Dual redundant POE LAN
- Ultra-low heat and power
- True Lossless compression
- Real-time remote viewing (direct from LAN)

Operational benefits

Sentinel recorders continuously capture any DisplayPort video sources and feature:

- True Lossless recording.
- High frame rates: Mouse movements or keyboard inputs are always accurate.
- Detect and record changes to the host systems resolution.
- Detect colour events such as button pushes or alert messages.
- Power from the LAN, no extra equipment needed in the console.

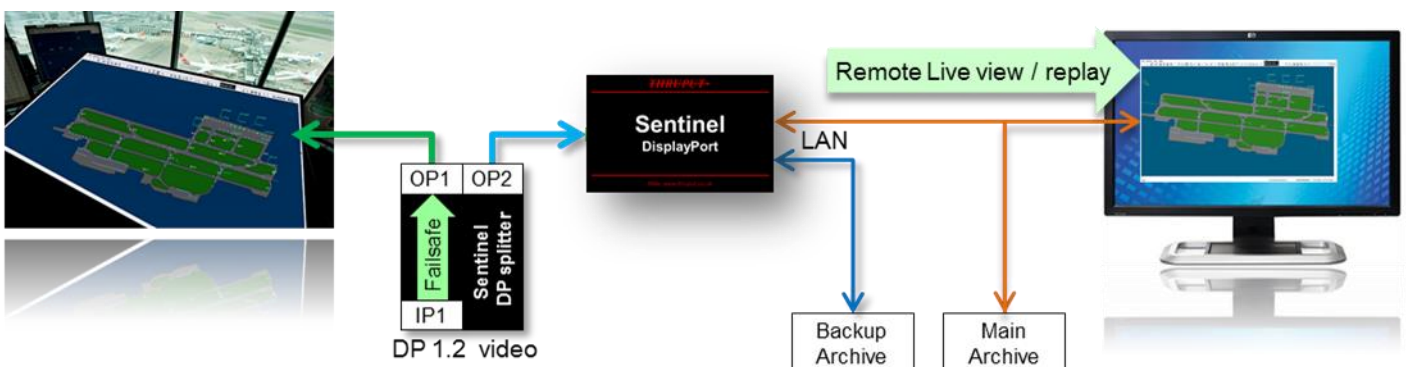
Green solution

With possibly the lowest power consumption of any recording system, Sentinel does not use any hazardous materials and is fully RoHS compliant.

Safety

ThruPut True-pixel graphics processing:

- Non-intrusive, failsafe video capture.
- Supports redundant system architectures.
- Continuous data rate control and parity checks.
- Multiple redundant power supplies.



Life cycle benefits

With greatly reduced complexity at the working position, a Sentinel recorder, powered from the LAN solution provides:

- Hot swappable and failsafe solution.
- Cost effective, simple to install; Needs neither power nor mechanical changes to a console.
- Cheaper to run than DSP or PC based recorders.
- Minimum heat in the operations room.

Software for systems integrators

The Sentinels are robust devices with simple logical interfaces, and Thruput can provide all the installs and API data needed for integration with Windows or LINUX systems. Some options include:

At the LAN traffic level

Customer S/W captures the LAN packets, and writes their data to disc in the way that best suits the existing system.

At the stored data level

The customer can use the existing data capture S/W of Sentinel and their own HMI to bring the Sentinels under the control of existing management and replay systems.

At the synchronized replay level

The customer can use Sentinel S/W to capture and synchronize replay from different data types. The replay key features are:

- Synchronized replay of multiple video audio, radar and database channels.
- Full control over playback speed and zoom level.
- Investigators toolset for the detail study of events, bookmarking and looping.
- Export formats including H265, H264, AVI, JPEG, PNG etc.

Specification

Video type	DisplayPort DP 1.2 HBR 2 SST	
Models	Number	Up to
	DP-4Kx2K	4096 x 2160 (HBR2)
	DP-H	2560 x 1600, 2048 x 2048 (HBR)
	DP-L	1920 x 1200 (RBR)
Networking	2 x 1000baseT Ethernet UDP SNMP Management TELNET	
Power Supply options	Power over Ethernet (dual) Power over USB (dual) 5V external	
Physical	Case: 16.5 cm x 10.3 cm x 2.6 cm Mounting: 4 off M3 10.3 x 10.8 cm centres	
Operating Environment	Temp:	0 to 40 °C
	Humidity:	20% to 80% (non-condensing)
	Altitude:	-300 to 10,000 feet MSL
MTBF	191,000 hours (calculated).	
Weight	0.2 Kg	
Compression	Typical ATC video: > 22,500:1 (at 8 FPS) > 3000:1 (Frame to frame).	
Compliance	CE, FCC and ROHS	

