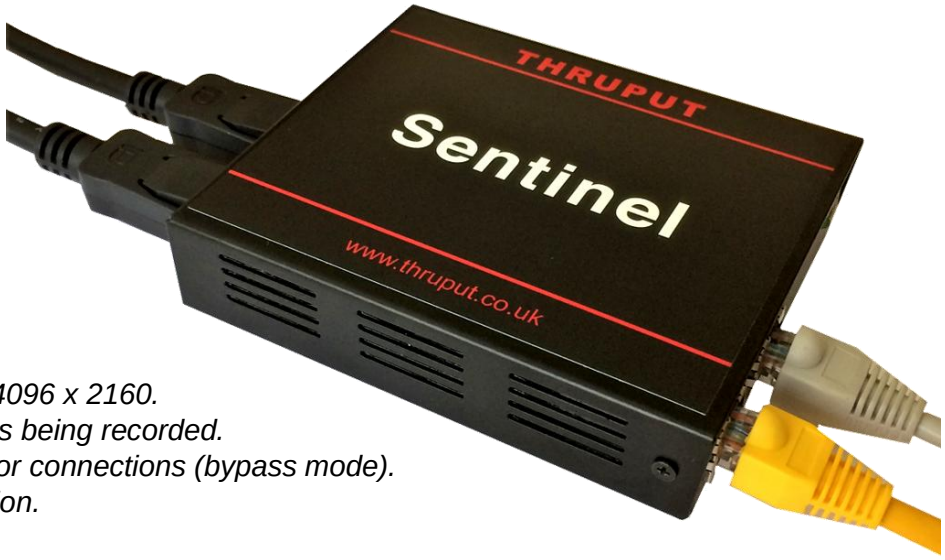
THRUPUT

Video Recording
Sentinel DisplayPort

Advanced DisplayPort video recorder with integral video Bypass and Power over Ethernet; provides the highest image quality, speed and storage efficiency.



- *DisplayPort video format.*
- *All resolutions including 4096 x 2160.*
- *No impact on the systems being recorded.*
- *Graphics card and monitor connections (bypass mode).*
- *True Lossless compression.*
- *Dual redundant LAN.*
- *Ultra low heat and power.*
- *Real-time remote viewing of any source (direct from LAN).*

Operational benefits
Sentinel recorders continuously capture any DisplayPort video sources and feature:

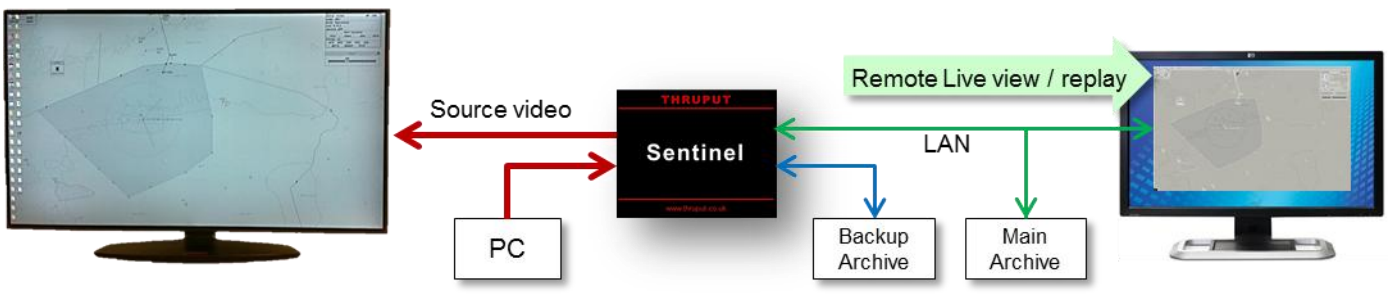
- Graphics card and monitor connections (bypass mode), no splitter required.
- Powered from the LAN, no extra equipment needed in the console.
- True Lossless recording.
- High frame rates: Mouse movements or keyboard inputs are always accurate.
- Detect and record changes to the host systems resolution.
- Detect colour events such as button pushes or alert messages.
- Continuous data rate control and parity checks.

Green solution
With possibly the lowest power consumption of any recording system, Sentinel does not use any hazardous materials:

- Supports PoE operation.
- Fully RoHS compliant.

Safety
Thruput True-pixel graphics processing:

- Continuous data rate control and parity checks.
- Supports redundant system architectures.
- Multiple redundant power supplies.



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Life cycle benefits

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

- Cost effective, simple solution to install; needs neither power nor mechanical changes to a console.
- Self-contained solution (no splitters or adapters).
- 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 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 uses 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 H264, AVI, JPEG PNG etc.

Specification *Ver A*

Video type	DisplayPort Up to 600 MPS 4096 x 2160 @ 60Hz	
Models	***Number***	***Up to***
	DP-1.2	*4096 x 2160*
	DP-1.1	*2560 x 1600, 2048 x 2048*
	DP-1.0	*1920 x 1200*
Networking	2 x 1000baseT Ethernet. UDP. SNMP Management. TELNET.	
Power Supply options	Power over Ethernet (dual). Power over USB. 5V external.	
Physical	Case: 12.8cm x 10.3 cm x 3 cm.	
Operating Environment	Temp: Humidity: Altitude:	0 to 40 °C 20% to 80% (non-condensing) -300 to 10,000 feet MSL
MTBF	191,000 hours (calculated).	
Weight	Module: 428 g, Baseplate: 141 g	
Compression	Typical ATC video: > 45,000:1 (at 10 FPS) True lossless	
Compliance	CE, FCC and ROHS	

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