

THRUPUT

Remote Tower Recorder Full Motion DisplayPort video

Full motion DisplayPort video recorder, using H265 video streaming. Features integral video Bypass and Power over Ethernet to provide the highest image quality, speed and storage efficiency.



- DisplayPort video format.
- All resolutions including 3840 x 2160 @ 60Hz.
- No impact on the systems being recorded.
- Integral Graphics card and monitor connections (bypass mode).
- H265 compression, can stream to generic 4Kx2K video players, such as VLC.
- 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.
- Detect and record changes to the host systems resolution.

Green solution

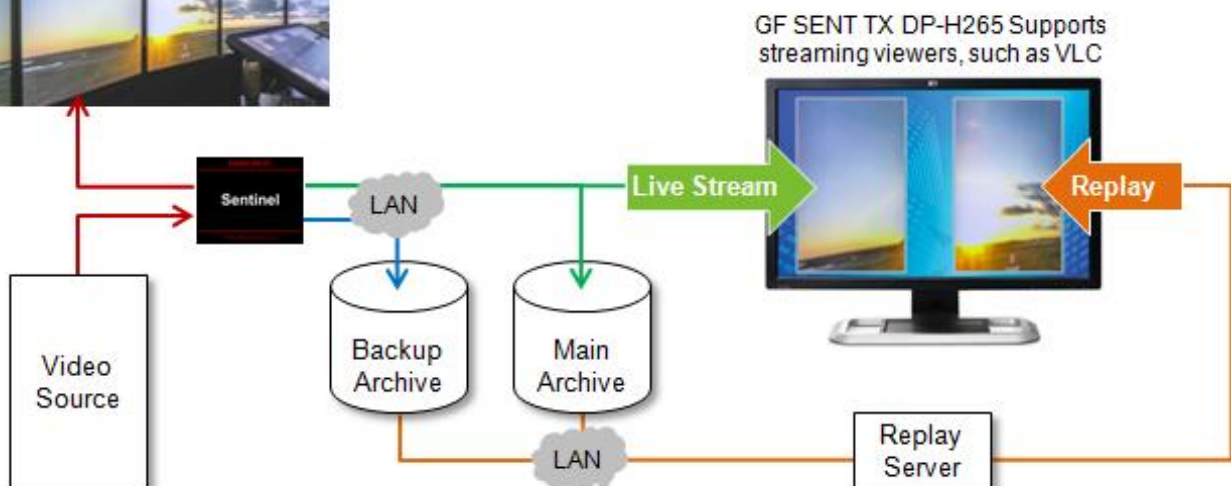
With possibly the lowest power consumption of any recording system, Sentinel does not use any hazardous materials:

- Supports PoE operation.
- Fully RoHS compliant.

Safety

Thruput True-pixel graphics processing:

- Supports redundant system architectures.
- Multiple redundant power supplies.



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 an 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.

Specification

Ver A

Video type	DisplayPort Up to 600 MPS 3840 x 2160 @ 60Hz	
Models	Number	Up to
	DP-1.2-H265	3840 x 2160
	DP-1.1-H265	2560 x 1600, 2048 x 2048
	DP-1.0-H265	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:	0 to 40 °C
	Humidity:	10% to 90% (non-condensing)
	Altitude:	-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	

