

TH4

4-Channel High-definition Hybrid DVR

Hybrid HD Surveillance

This high-definition (HD) digital video recorder (DVR) records up to four high-definition camera views, while offering the flexibility to support existing standard resolution (analog) cameras. The TH4 supports up to four cameras in total – any combination of your choice of HD or Standard resolution. HYBRID technology allows you to upgrade to HD at your own pace while preserving your initial camera investment.



Ideal for: School Bus, Para-transit, Shuttle, Commercial Vehicle, Fire & Emergency Vehicle

Full High-definition Surveillance

Record up to four high-definition camera views with audio at up to 30 FPS on all channels simultaneously.

Flexibility & Easy Installation

Choose any combination of standard or HD cameras with simple plug & play installation.

Hybrid Technology: Your Choice – Analog or HD

Support your existing cameras while upgrading to HD with your choice of recording resolution from D1 to 720p.

Compatible with any Seon analog and new high-definition dome and wedge Cameras:



HD1Q Interior Dome



HD1W Outdoor Wedge

Accessories:



Event/Diagnostic Button



Hard Drive Reader



GPS



G-Force Sensor

Optional Add-ons:



Wi-Fi auto-download & Video management



Live GPS Tracking



Live Video Streaming

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Video	
Recording Channels	4 channels (HD or Std Res), 4 audio channels
Video Resolution	Total of 4 CH, configurable per CH: 1280x720 (720p) up to 4 CH main stream 720x480 (D1) up to 4 CH main stream CIF all CH for second stream recording
Recording Rate Main Stream	30 FPS on all video channels (120 FPS aggregate)
Recording Rate Second Stream	1 - 5 FPS independent of the main stream
Quality Settings	Adjustable, 4 levels
Auto Overwrite	Selectable On/Off
Display Modes	Single camera, four-up on the DVR video out Single camera, four-up on the vMax Web
Playback Rate	Frame advance, FFD and REV playback up to 32x
Search Function	Segment, alarm, date/time, event
User Interface	OSD with mouse, vMax Web (web browser), vMax® View software suite
Delay On/Off	Record Delay on ≤1 hr Record Delay off ≤1 hr Power Delay off ≤4 hr
On-Screen Display	Main title, time & date, record status
Dual Streaming	Capable of sending low-bandwidth video images live over an optional broadband (cellular) network
Storage	
Primary	Up to 2 TB (HDD)
Secondary	Up to 512GB (SD Card)
Input/Output	
Network Interface	2-port Ethernet switch (TCP/IP)
Wiring Harness	20' (6 m) harness for power
Panic Alarm Input	20' (6 m) harness with panic button

Smart Features	
Smart-Temp™	Ensures the DVR stays at its optimal operational temperature
Smart-Start™	Safeguards the DVR against electrical spikes with vehicle start-up voltage protection
Inertia Sensor	3 axis internal G-sensor
Electrical	
Voltage Range	8 to 32 VDC
Transient Protection	600 W for power input, 400 W per signal input
Configuration Backup	Time & programmed info (retained up to 10 years)
Mechanical/General	
Dimensions (H x W x D)	2.5 x 7 x 9.5 in (64 x 188 x 241 mm)
DVR Weight	5.3 lbs (2.4 kg) with lock-box
Environmental	
Operating Temperature	-30 to 50°C (-22 to 122°F)
Approvals	
Emissions	FCC Part 15, Class B
Vibration	Vibration Tested against SAE-1455 and MIL-STD 810F
Specifications – Plus System	
Signals	5 external signal inputs + 5 internal signals
Alarms	4 internal alarms to connect to signals or internal triggers, + 1 external alarm
Event/Diagnostic Button	An indicator panel that marks events for quick searches and displays DVR status
GPS Ready	Records vehicle speed and location with optional GPS receiver; enables synchronized mapping when used with vMax® software
Geo-fencing	Uses GPS technology to set a geographical boundary for a vehicle; receive an alert if it deviates

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