The Observer™ 4100 AHD is a compact, rugged, solid state hybrid video recorder (HVR) designed to withstand the demanding shock and vibration of in-vehicle recording. The Observer 4100 AHD offers the ability to utilize up to 4 analog high definition (AHD) cameras with recording resolutions up to 1080p. It also allows additional support for a high-definition IP camera, ideal for delivering sharp images at 1080p in the most crucial areas where more clarity is needed.
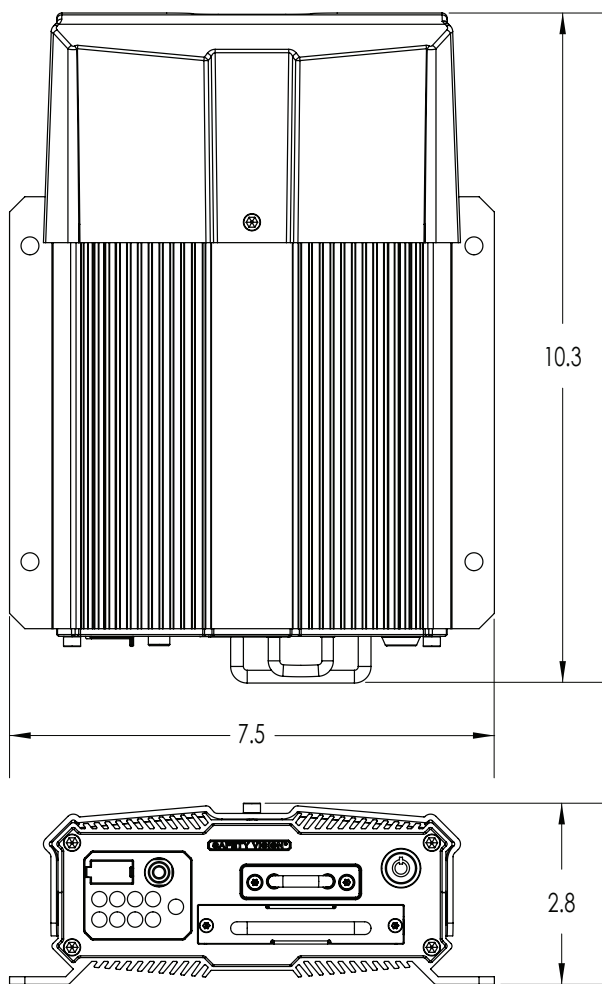
AHD Technology

HD over analog produces high definition images using traditional analog cables, eliminating any need to re-wire vehicles when upgrading to the latest technology. This specialized capability allows for modernization of an existing system without the extra charge. The rugged Observer 4100 AHD features a robust, compact design for installation in a variety of mobile environments. Generate HD images at an analog price with the dependable performance that has made the Observer series an industry leader.

Solid State Recording

The Observer 4100 AHD uses only solid-state storage, ensuring reliable operation in the rough and tumble mobile environment. A removable solid-state drive (SSD) provides up to 1TB of storage, while dual SD cards provide a mirror recording feature to back up captured video. For a more economical solution, use the dual SD cards as your primary storage instead, without the need of purchasing a hard drive and help keep costs down.

Please discuss our installation, training, extended warranty, and onsite service options with your mobile video solutions specialist!

www.safetyvision.com   **800.880.8855**   **6100 W. Sam Houston Pkwy. N. Houston , TX 77041**

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SPECIFICATIONS	
Part No. 4100-HVR	
OS Support	Linux 3.0.8
Access Control	CP4, web interface *(Wi-Fi or interface)*, mouse *(wireless)*
Cameras Supported	Up to 4 AHD or analog + 1 IP
Audio/Video Outputs	2 video outputs ports *(BNC and RCA)* and 1 audio output port *(BNC)*
Display	1/4/9 image display
On-Screen Display	GPS information, trigged alarm, temperature, acceleration, voltage, device information, software version, MCU version, network status
Frame Rate	**NTSC:** 4 × 1080p at 15 FPS (AHD) + 1 × 1080P at 30 FPS (IP) or 4 × 720p at 30 FPS (AHD) + 1×1080P at 30 FPS (IP) or 4 × D1 at 30 FPS + 1 × 1080P at 30 FPS (IP) **PAL:** 4 × 1080p at 12 FPS (AHD) + 1 × 1080p at 30 FPS (IP) or 4 × 720p at 25 FPS (AHD) + 1 × 1080p at 30 FPS (IP) or 4 × D1 at 25 FPS + 1 × 1080P at 30 FPS (IP)
Image Quality	8 levels
Image Resolution	**NTSC:** AHD 1080p, AHD 720p, WD1 (928×480), WHD1 (928×240), WCIF (464×240), D1 (704×480), HD1 (704×240), CIF (352×240) **Digital:** 1080p (1920×1080), 720p(1280×720) **PAL:** AHD 1080p, AHD 720p, WD1(928×576), WHD1 (928×288), WCIF(464X288), D1(704×576), HD1(704×288), CIF(352×288) **Digital:** 1080p (1920 ×1080), 720p (1280×720)
Storage	1 × SATA II SSD, up to 1 TB
Recording Modes	Continuous/Manual/Schedule/Alarm (sensor trigger, speed, acceleration, video loss, temperature)
Mirror Recording	2 × SD cards *(256 GB max each, 512 GB total), removeable cannister*
Redundant Storage	External fire proof box *(optional)*
Pre-Event Recording	Configurable up to 60 minutes
Post-Event Recording	Configurable up to 30 minutes
Ethernet	RJ45 × 1 (10/100 M)
Wi-Fi (Antenna Required)	Embedded module (802.11b/g/n)
GPS (built-in)	Location tracking, speed detection, and sync time
Accelerometer	3-Axis
Interfaces	**Front:** 1 × USB 2.0 **Rear:** 1 × USB 2.0, 2 × RS232, 2 × RS485
Sensors	8 inputs, 4 outputs
Power Input	8 ~ 36V DC, ACC
Operating Temperature	-40° F ~ 158° F (-40° C ~ 70° C)
Dimensions (w × h × d)	7.5 in × 2.8 in × 10.3 in (190.5 mm × 71.1 mm × 261.6 mm)
Certifications	MIL-STD-810, IEC 60068, FCC, CE, EN50155 EMC, ISO7673

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