SMARTER CAPTURE

PART NUMBER: 4401-HVR

SV HARDWARE

5-CHANNEL HYBRID VIDEO RECORDER

OBSERVER™ 4401 HVR

The Observer 4401 HVR records up to 5 channels of crisp 1080p resolution, supporting 4 HD cameras and 1 IP camera. Equipped with H.265 video compression for smaller file sizes, the Observer 4401 HVR can store even more HD video and significantly lower bandwidth costs when wirelessly offloading recorded footage. With dual SD card slots, an optional secondary SD card can be used for either mirror recording or as an additional storage device. The Observer 4401 HVR comes fully loaded with built-in wireless and cellular networking capabilities, integrated GPS, and a built-in G-force sensor, offering fleet operators a cost-effective recording solution they can rely on.

FEATURES

- HD Video Recording
- 4 HD Channels + 1 IP Channel
- H.265 Video Compression
- Dual SD Card Slots – Up to 512 GB each *(1 TB total)*
- Mirror Recording Optional on Secondary SD Card
- 8 Customizable Sensor Inputs
- Integrated GPS
- Built-in G-force Sensor
- WI-FI and Cell Networking

5-CHANNEL HYBRID VIDEO RECORDER

OBSERVER™ 4401 HVR

OS SUPPORT
Linux 4.9

CAMERA CHANNELS
4 channels *(AHD)* + 1 IP

VIDEO / AUDIO OUTPUT
1 channel

QUALITY SETTINGS
Adjustable 8 levels

RECORDING RESOLUTION
NTSC: 4 × 720p at 30fps, 1 × IP 1080p at 30 fps **OR**
4 × 1080p at 15fps + 1 × IP 1080p at 30 fps

PAL: 4 × 720p at 25fps + 1 × IP 1080p at 30 fps **OR**
4 × 1080p at 15fps + 1 ×IP1080p at 30 fps

VIDEO COMPRESSION
H.265/H.264

STORAGE
2 × SD card *(512 GB each, 1 TB total)*

Mirror Recording: 1 × SD card up to 512 GB max *(optional)*

RECORDING MODES
Continuous / scheduled / alarm

PRE-EVENT RECORDING
Configurable up to 60 minutes

POST-EVENT RECORDING
Configurable up to 30 minutes

ETHERNET
6-pin M12 *(1 × 10/100M)*

WI-FI (ANTENNA REQUIRED)
Embedded module *(802.11 b/g/n/ac)*

GPS (BUILT-IN)
Antenna required *(date / time, speed, mapping data)*

ACCELEROMETER (BUILT-IN)
3-Axis

INTERFACES
Front: 1 × USB 2.0 *(type A)*

Back: 1 × RS232 *(extends to 2 × RS232 and 2 × RS485 with optional COM extender)*

SENSORS
8 inputs, 2 outputs

POWER INPUT
8 ~ 36V DC, ACC

POWER OUTPUT
5V at 500mA, 12V at 500mA

OPERATING TEMPERATURE
-40° F ~ 158° F *(-40°C ~ 70°C)*

DIMENSIONS (W × H × D)
6.18 × 2.51 × 8.76 in *(157 × 63.7 × 222.5 mm)*

CERTIFICATIONS
CE, FCC, CE-EMC, RoHS, EN50155-EMC, EN50155-RELIABILITY, ISO7637, MIL-STD-810, CE-RED, CE-GPS, CE SAR, CE SAFETY, FCC-DOC, CE-EMC, ISO7637

POWER CONSUMPTION IN STANDBY MODE*		
INPUT (IN VOLTS)	CURRENT (IN MILLIAMPS)	POWER CONSUMPTION (IN MILLIWATTS)
8V	0.62852mA	5.024mW
13.5V	1.058mA	14.283mW
27V	2.372mA	64.044mW
36V	3.415mA	112.695mW

POWER CONSUMPTION UNDER TYPICAL LOAD‡		
INPUT (IN VOLTS)	CURRENT (IN AMPS)	POWER CONSUMPTION (IN WATTS)
8V	2.717A	21.736W
13.5V	2.003A	27.041W
27V	1.044A	28.188W
36V	0.852A	28.116W

*Estimated average values above are HVR in 'Standby' mode *(MCU_3V3 not powered on)*. Values above were recorded in a clean environment, exact values may vary slightly per environment.

‡Estimated average values above are HVR under typical load *(MCU_3V3 powered on)*. Values above were recorded in a clean environment, exact values may vary slightly per environment.