



DON'T RESTRICT YOUR FLOW

WHAT IS BIT RATE & WHY DOES IT MATTER

- **Powerful** Processing
- **Clearer** Picture
- **Smoother** Video
- Bit Rate of 40 Mbps¹/80Mbps²
- 1080p on **ALL** channels
- Up to 30 FPS per channel

¹ HD5-600; ² HD5-1200



High Definition has been the buzz word the last few years in the camera industry. HD is a recording dimension, not a quality setting. The biggest factor in quality is bit rate. The larger the bit rate, or mega bits per second a DVR records, the better the video quality. Compressing video to give you more storage space will degrade the picture significantly when you have a small bit rate. By having a higher bit rate you widen that pipe, getting the best quality video possible.

REI designed our HD5 DVRs with a higher bit rate, giving you the ability to capture clearer details.

Go ahead. Compare us.



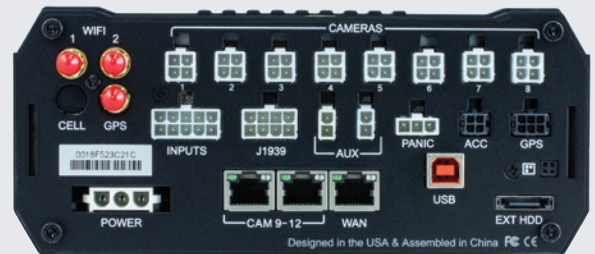
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FLY1064 0618

dvr's

HD5 SERIES DVRs



are the brains behind the beauty of high-definition views. Lightweight, durable and loaded with extraordinary features, HD5 Series DVRs record crystal-clear video, audio and vehicle data on removable hard drives. Connect up to 12 surveillance cameras to capture stunning views in and around vehicles. Recording times may be preset or activated when vehicles are started.

Benefits

- Backward compatibility – save money due to 100% compatibility with all existing REI HD Series cables, cameras, peripheral devices & brackets
- Versatile – connect up to 12 HD cameras for total coverage in and around vehicles
- Expandable – swap the communication module for easy upgrades when available
- Enhanced clarity – see the smallest details with true 1080p high definition available on all channels
- Durable – vibration dampening integrated into hard-drive housing
- User-friendly – configure for iOS/Android™ tablet, smartphone or laptop
- Dependable – operate to -40°F with integrated heater
- Security – maintain privacy with steel rear cover & locking front cover (both optional)
- Safety – count on consistent, regulated power to all cameras, external devices & peripherals

Features



high-definition (1080p) video on all channels



ultra HD (4K) IP channels



GPS (optional)



4G cellular (optional)



fast 802.11n Wi-Fi (optional)



panic button (optional)



full-frame rate up to 30fps/channel



H.264 triple streaming



accelerometer (optional)



up to 2TB hard drive or solid-state hard drive (optional)



up to 256GB SD card (optional)



lockbox (optional)

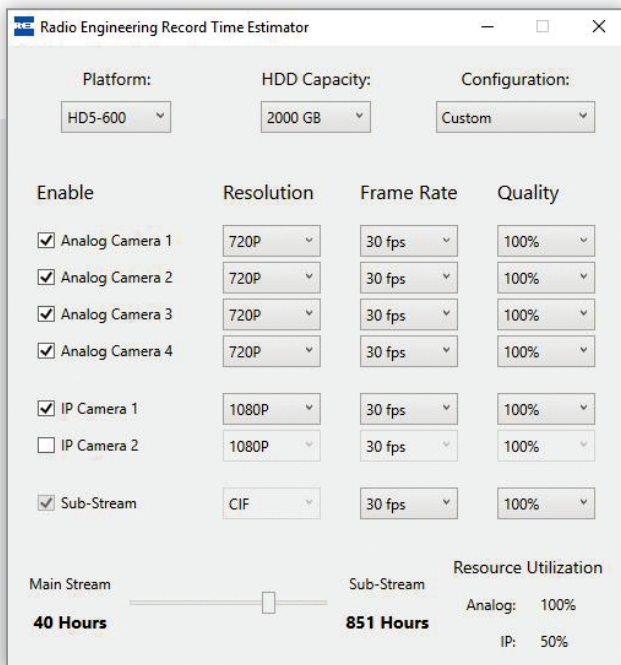


extruded aluminum chassis



fanless design

peace of mind
is built in



Wireless Setup

Freedom is paramount. REI's wireless setup allows users to conveniently program and review camera angles without being tied to a DVR. Smartphones, tablets or laptops may be used while moving around to determine the best, most advantageous interior and exterior views. Setup requires the DVR tool kit and optional Wi-Fi dongle.

Better Bit Rate

is what makes views sizzle. Higher bit rates mean sharper images, enhanced colors and exceptional resolution. REI offers the highest bit rate in the industry.

Triple-Stream Technology

enables users to view, access and balance the need for HD video vs. preserving an exponentially larger amount of lower-resolution video. Customize the quality and space needed for any application.





HD5-1200 DVR

Maximize your Perspective.



Introducing the HD5-1200 DVR – gain a brand-new perspective and move forward knowing your passengers, drivers and vehicles are secure.

- Customizable** Connect up to 12 HD cameras providing optimal coverage in and around your vehicle, including exclusive crisscross views capable of capturing video over high seat backs
- Expandable** Easy to upgrade as technology advances
- Save money** 100% compatible with all existing REI equipment
- View details** Up to 1080p HD on every channel easily captures the smallest details
- Durable** Integrated heater to withstand cold environments
- Rugged** Vibration and shock tested to military standard
- Intuitive** Easily configurable via iOS/Android™ phone, tablet or laptop

REI is the customer-experience focused, all-in-one solutions provider of professional grade electronics for the transportation industry. Our customizable solutions combine durable equipment with user-friendly software. Explore the HD5-1200 DVR. Discover the capabilities. Discover new perspectives.

Call REI today – we have your solution.












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DESCRIPTION	PART #
HD5-1200 DVR with Wi-Fi	710609
HD5-1200 DVR with Wi-Fi and 4G LTE internal router	710781



Featured Specifications

 High-Definition (1080p) Video On All Channels	 Ultra HD (4K) Channels 9-12	 GPS (optional)
 4G LTE Cellular (optional)	 Fast 802.11n Wi-Fi	 Event Marker (optional)
 Full-Frame Rate Up To 30 fps/Channel	 H.264 Triple Streaming	 Accelerometer (optional)
 Up To 2 TB Hard Drive Or Solid-State Hard Drive (optional)	 Up To 256 GB SD Card (optional)	 Lockbox (optional)
 Extruded Aluminum Chassis	 Quiet, Fanless Enclosure To Prevent Dust	

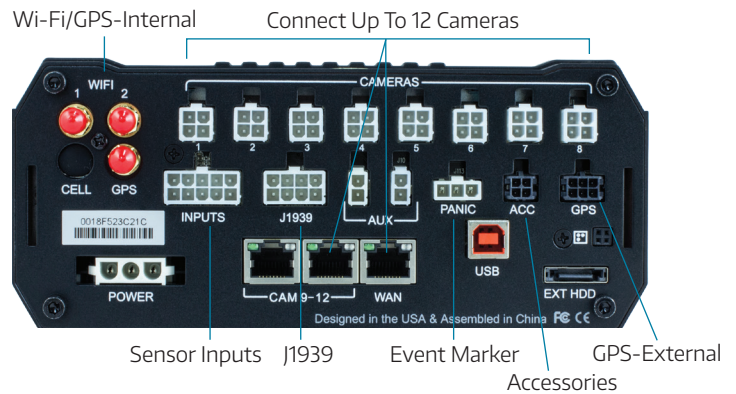
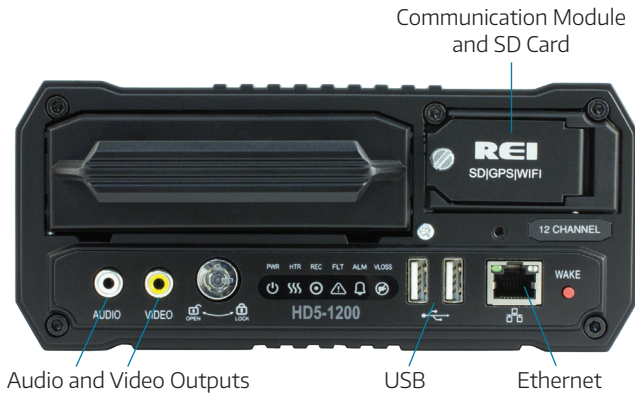
Benefits

- Save money – compatible with all existing REI HD Series cables, cameras, peripheral devices and brackets
- Versatile – connects up to 12 HD cameras providing total video coverage in and around your vehicle
- Expandable – communication module makes upgrading easy for faster communication technology as it becomes available
- Enhanced clarity – 1080p high definition is available on all channels – allows you to see the smallest details with enhanced clarity
- Built to last – vibration dampening integrated into hard-drive housing
- User-friendly – configure via iOS/Android™ tablet, smartphone or laptop
- Dependable – integrated heater for operation to -40° F
- Secure – steel rear cover and locking front cover (both optional)
- Safe – provides consistent, regulated power including all cameras, external devices and peripherals

Testing Standards

- Battery/voltage tested per ISO 7637-2
- Electrical load-tested reverse polarity and power faults per ISO 16750-2
- Electrostatic discharge-tested/protected per ISO 10605
- Thermal tested per ISO 16750-4
- Vibration tested to military standard-810G
- Shock tested to military standard-810G

HD5-1200 DVR



Power	Eight to 32 Volts DC, <2A operating (excludes cameras, accessories)
Dimensions	Without brackets: 7.4" x 3.2" x 9.5" With brackets: 9.1" x 4.0" x 9.5" (max)
Weight	8.6 pounds (3.90 kg) with mounting brackets
Standby Current	< 2mA
Operation Temperature	-40° - 160°F continuous operation
Operating Humidity	10 to 95%, noncondensing

VIDEO RECORDING

Video Inputs	Up to 12 channels
Video Standards	NTSC, AHD, ONVIF, REI
Resolution	Up to 1080p channels 1-8 Up to UHD(4K) channels 9-12
Frame Rate	Up to 30 fps per channel
Bit Rate	80 Mbps
Compression	H.264 Triple-stream encoding/ recording – high-quality recording + efficient network video streaming

Audio Inputs	12
Total Channels	12

STORAGE

Hard Drive	Removable hard disk drive module with USB 3.0 interface, integrated shock and vibration dampening, and heater
SD Card	SD slot for simultaneous (mirror) or alarm video recording

COMMUNICATION MODULE

Easily Upgraded Communication Module	Field- or factory-installed removable communication module
Wi-Fi (internal)	802.11a/b/g/n 2.4 GHz/5 GHz Wi-Fi (Wi-Fi models only)
Cellular (internal)	Optional 4G LTE modem for cellular connectivity
GPS	Optional internal or external GPS receiver

INPUTS/OUTPUTS

USB Ports	Two front-panel USB ports for mouse and video backup, firmware update, configuration and debugging (log files, etc.)
WAN Ports	Rear-panel WAN (Ethernet) port for connection to external 4G LTE cellular router and for connection to REI and non-REI, in-vehicle systems
LAN Ports (IPC, etc.)	Front-panel LAN port for local DVR configuration, camera adjustment, IP camera setup, etc.
Front-Panel Audio/Video Port	Front-panel composite audio/video outputs for local DVR configuration, camera setup, etc. using a USB mouse
Vehicle Interface (J1939)	Dual SAE J1939 250 kbps/500 kbps interface for connection to in-vehicle networks, multiplex systems, etc.
Accessory Port (RS485)	For connection to optional REI peripherals, including accelerometer, output modules, display modules, RFID, etc. and non-REI devices
GPS/Status Port (RS232)	Optional external (RS232) GPS receiver Optional GPS/status output (RS232) for interface to third-party AVL systems
Sensor Inputs	Eight sensor inputs for detection of vehicle signals (brakes, turn signals, etc.)

HD5-600 DVR

Be Ready. Be Confident.



Discover the HD5-600 DVR - engineered to protect. Be confident knowing your passengers, drivers and vehicles are secure.

- Customizable** Connect up to 6 HD cameras providing optimal coverage in and around your vehicle, including exclusive crisscross views capable of capturing video over high seat backs
- Expandable** Easy to upgrade as technology advances
- Save money** 100% compatible with all existing REI equipment
- View details** Up to 1080p HD on every channel easily captures the smallest details
- Durable** Integrated heater to withstand cold environments
- Rugged** Vibration and shock tested to military standard
- Intuitive** Easily configurable via iOS/Android™ phone, tablet or laptop

REI is the customer-experience focused, all-in-one solutions provider of professional grade electronics for the transportation industry. Our customizable solutions combine durable equipment with user-friendly software. Explore the HD5-600 DVR, discover the capabilities.













Call REI today – we have your solution.

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DESCRIPTION	PART #
HD5-600 DVR	710607
HD5-600 DVR with Wi-Fi	710608
HD5-600 DVR with Wi-Fi and 4G LTE internal router	710780



Featured Specifications

 High-Definition (1080p) Video On All Channels	 Ultra HD (4K) Channels 5 and 6	 GPS (optional)
 4G LTE Cellular (optional)	 Fast 802.11n Wi-Fi (optional)	 Event Marker (optional)
 Full-Frame Rate Up To 30 fps/Channel	 H.264 Triple Streaming	 Accelerometer (optional)
 Up To 2 TB Hard Drive Or Solid-State Hard Drive (optional)	 Up To 256 GB SD Card (optional)	 Lockbox (optional)
 Extruded Aluminum Chassis	 Quiet, Fanless Enclosure To Prevent Dust	

Benefits

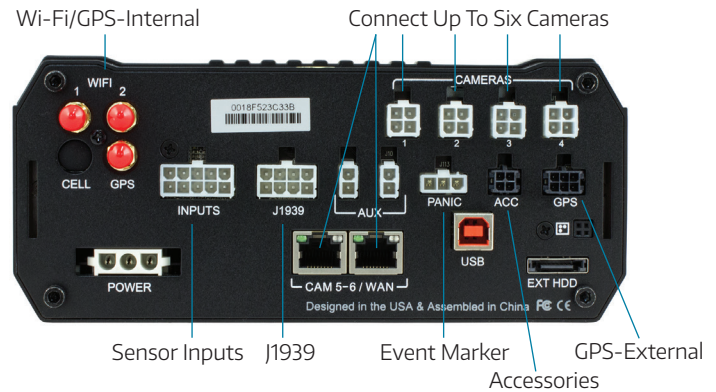
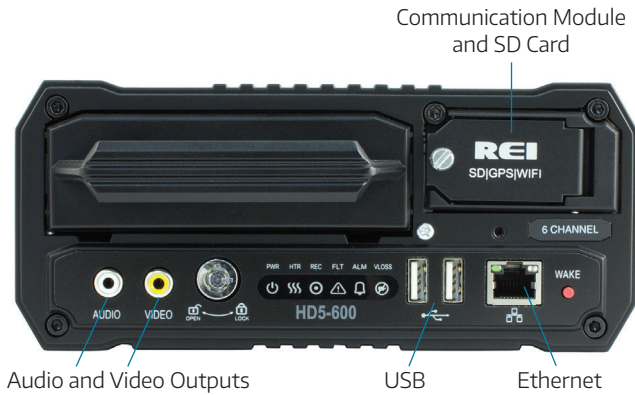
- Save money – compatible with all existing REI HD Series cables, cameras, peripheral devices and brackets
- Versatile – connects up to six HD cameras providing total video coverage in and around your vehicle
- Expandable – communication module makes upgrading easy for faster communication technology as it becomes available
- Enhanced clarity – 1080p high definition is available on all channels – allows you to see the smallest details with enhanced clarity
- Built to last – vibration dampening integrated into hard-drive housing
- User-friendly – configure via iOS/Android™ tablet, smartphone or laptop
- Dependable – integrated heater for operation to -40° F
- Secure – steel rear cover and locking front cover (both optional)
- Safe – provides consistent, regulated power, including all cameras, external devices and peripherals

Testing Standards

- Battery/voltage tested per ISO 7637-2
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- Electrostatic discharge-tested/protected per ISO 10605
- Thermal tested per ISO 16750-4
- Vibration tested to military standard-810G
- Shock tested to military standard-810G



HD5-600 DVR



Power	Eight to 32 Volts DC, <2A operating (excludes cameras, accessories)
Dimensions	Without brackets: 7.4" x 3.2" x 9.5" With brackets: 9.1" x 4.0" x 9.5" (max)
Weight	8.6 pounds (3.90 kg) with mounting brackets
Standby Current	< 2mA
Operation Temperature	-40° - 160° F continuous operation
Operating Humidity	10 to 95%, noncondensing

VIDEO RECORDING

Video Inputs	Up to six channels
Video Standards	NTSC, AHD, ONVIF, REI
Resolution	Up to 1080p channels 1-4 Up to UHD(4K) channels 5-6
Frame Rate	Up to 30 fps per channel
Bit Rate	40 Mbps
Compression	H.264 Triple-stream encoding/recording – high-quality recording + efficient network video streaming
Audio Inputs	Six
Total Channels	Six

STORAGE

Hard Drive	Removable hard disk drive module with USB 3.0 interface, integrated shock and vibration dampening, and heater
SD Card	SD slot for simultaneous (mirror) or alarm video recording

COMMUNICATION MODULE

Easily Upgraded Communication Module	Field- or factory-installed removable communication module
Wi-Fi (internal)	Optional 802.11a/b/g/n 2.4 GHz/5 GHz Wi-Fi (Wi-Fi models only)
Cellular (internal)	Optional 4G LTE modem for cellular connectivity
GPS	Optional internal or external GPS receiver

INPUTS/OUTPUTS

USB Ports	Two front-panel USB ports for mouse and video backup, firmware update, configuration and debugging (log files, etc.)
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Sensor Inputs	Eight sensor inputs for detection of vehicle signals (brakes, turn signals, etc.)

HD SERIES REMOVABLE STORAGE DEVICES



REI's mobile video surveillance removable storage devices are available with a variety of storage size options to meet your recording needs. We consistently test our hard drives and solid state drive modules to ensure your data retains its integrity and performance. Specify REI today!

HDD

DESCRIPTION	PART #
320 GB	710332
500 GB	710333
750 GB	710334
1 TB	710341
2 TB	710526

SSD

DESCRIPTION	PART #
250 GB	710587
500 GB	710581
1 TB	710583

Product Features

- Removable, locking housing (HDD only)
- Shock resistant
- Durable, extruded aluminum chassis
- Vibration dampening integrated into housing
- Integrated heater for operation to -40°F
- No docking station required - USB 3.0 port on HDD housing for direct connection to a host PC
- Activity and communication lights for visual verification of operation and PC connectivity
- Key switch locks USB port preventing unauthorized access to contents

	HDD	SSD
Power	5 VDC, 1 amp/2 amps (max)	5 VDC, 1 amp/2 amps (max)
Dimensions	7.7" x 5" x 1.35"	7.7" x 5" x 1.35"
Weight	1.85 lbs (.84 kg)	1.90 lbs (.86 kg)
Operating Temperature	-40°F to +150°F	-40°F to +158°F
Operating Humidity	10% - 95%, non-condensing	10% - 95%, non-condensing
Interface	USB (User), SATA (DVR)	USB (User), SATA (DVR)

SD CARD



REI's professional grade SD Card allows the quick and easy transfer of video from your DVR to your computer. REI's SD Card has wear leveling technology making it more robust than standard cards. The small, lightweight card provides up to 256 GB of storage. Specify REI today!

DESCRIPTION	PART #
HD Series SD Card - 32 GB	690745
HD Series SD Card - 256 GB	690791
SD40 SD Card - 32 GB	690658
SD40 SD Card - 64 GB	690659

Product Features

- Professional grade card
- SD Card Association specification compliants
- Optimized for digital video recording
- Extreme temperature rated
- Error Correction Code (ECC) functions
- Class 10 - SD rated for increased speed
- Longer card life due to advanced wear-leveling algorithms



DESCRIPTION	PART #
Optional USB SD Card Reader	690647

Read Speed	22MB/s
Write Speed	10MB/s
Dimensions	.95" x 1.25" x .08" (24mm x 32mm x 2.1mm)
Operation Temperature	-40°F to +185°F
Storage Temperature	-40°F to +185°F
MTBF Ratings	Over 2 million hours
Shock	40g's at 11ms
Vibration	15Hz to 2,000Hz
Altitude	80,000'
Durability	>10,000 insertion/removal cycles
Data Retention	>10 years