

SD4B Series DVR Vault

User Guide



SD4B Series Mobile Solutions DVR Vault
v11.1.2011

American Bus Video

2545 Valley Ridge Drive
Cumming, GA 30040
(770) 263-8118 (770) 887-5944 Fax

www.AmericanBusVideo.com
sales@AmericanBusVideo.com

24+ Years of Mobile Digital Sales & Service Experience

DVR Vault Objective

The development of this device is to enhance security of the SD4B DVR that is located within the DVR Vault using an existing product modified specifically for the SD4B DVR series.

Due to the nature of the mobile video application valuable video evidence is often recorded by the DVR onto the solid-state memory device stored within the DVR. This valuable video evidence is a target by those who may have been recorded committing a criminal offense, engaging in drug abuse, violating the federal driver distraction mandate or breaking company policy.

Key Lock Access

It is imperative that the driver of the vehicle NOT have access to the keys that open the lock on the DVR Vault, in order to protect that same driver from accusations of tampering with evidence should there be an incident or crime that requires the video evidence and for any reason the SD card is missing from the DVR in the DVR Vault. To prevent any conflict of interest issues, the manager, supervisor or fleet owner should make sure drivers do not have access to the keys in order to protect the district or company and the driver.

Proper Mounting Location

The mounting location will change on almost every vehicle due to real-estate allocation of the devices within the vehicle. Location should be inside the passenger compartment, free of water, out of the direct sunlight and away from all sources of heat.

Front clearance of 6 inch is required to lift the top cover when unlocked.

Top clearance of 16" is required to open the top lid out of the way to access the DVR.

Installation Requirements

Install where mounting assembly wires have sufficient clearance and will not be crimped or subject to wire insulation damages due to vibration.

Secure the DVR Vault so that passengers or drivers cannot tamper or damage the unit, wires or other accessories. Do not mount where access to any other vehicle component will be restricted.

Install the unit and wires so that no injuries can be caused through impact with equipment during vehicle operation.

Ensure that all transportation regulations are followed to avoid passenger injury should they come in contact with the installed DVR Vault.

Secure the DVR Vault securely using at least the 4 bolt holes provided in the base of the DVR Vault using bolts, nuts and lock washers.

Secure all wires and cables so they are not in risk of getting cut or pinched by any device that may cause a short.

When adding a DVR Vault, an additional fuse is required to further protect the vehicle. Apply the fuse at the vehicle power location source in a 3 amp rated fuse.

DVR Mounting in DVR Vault

The SD4B DVR is offered in multiple versions of Powder Coat or Stainless Steel.

SD4B Series will require the mount holes in the side rail mounts to be slightly enlarged to accommodate the larger 10-32 bolts that will secure them. While we could have made use of smaller diameter bolts that would have fit into the smaller holes in the mounting brackets, we wanted the additional support of the larger diameter bolts.

Side view of open DVR Vault below,
shows clamshell design that permits easy access to the face of the DVR without unscrewing the top cover:



Mount Hole Enlarging

SD4B Series will require the mount holes in the side rail mounts to be slightly enlarged to accommodate the larger 10-32 bolts that will secure them
See photo below.



Remove the top lock nuts from the 4 DVR support posts.



DVR Cable Connections

Plug in all DVR connections, including power, cameras, I/O Triggers, GPS antenna, Video Output cable...then test the DVR making sure all functions are operational, prior to bolting the DVR onto the 4 DVR Support Posts.

Once you are certain all connections have been properly made and the DVR is fully functional, place the DVR onto the 4 Support Posts and secure with the 4 Lock Nuts that you previously removed. See photo below for Top View of a mounted DVR with 4 camera cables, GPS & Power cables packed into case.



Note the Service Fuse has been moved to the non-cable side of the DVR to permit service access should the fuse blow to protect the system. Also note the GPS cable is a tight fit, so this should be screwed onto the DVR GPS post before mounting the DVR on the Support Posts.

Front view of the SD4B Vault with SD4B-GPS-4 Series DVR bolted onto the 4 Support Posts.
Shown is the maximum of camera cables (4), Power & GPS cables that will be required to fit into the DVR Vault.



Mounted SD4B DVR with all cables for 4-camera system with GPS.

Neatly packed into the DVR Vault, with service fuse on side of DVR for easy access. Note that the IR Remote Control will also fit into the DVR Vault for any future user setting changes or troubleshooting.



Gently close the upper lid and lock the box to insure that the DVR and cables fit into the vault without pinching any wires.



You now have the piece of mind that your video evidence is now protected in a Diamond Plate Steel Vault.

American Bus Video

2545 Valley Ridge Drive
Cumming, GA 30040
(770) 263-8118 (770) 887-5944 Fax

www.AmericanBusVideo.com

sales@AmericanBusVideo.com

24+ Years of Mobile Digital Sales & Service Experience