



June 27, 2018

To: Whom it may concern

Subj: Parade IC176 Update Utility

Hello Customers/Technicians,

This firmware update is specific to 4K DisplayPort and Mini-DisplayPort adapters using the Parade IC176 Chipset.

Liberty part numbers affected are:

ITEM_NBR	DESCRIPTION
AR-DP4K-HDF	CABLE ADAPTER DP-HD 4K 5" BLK
AR-MDP4K-HDF	CABLE ADAPTER MDP-HD 4K 5" BLK
ARDP4KHF	ADAPTER DP-HD 4K BLACK
ARMDP4KHF	ADAPTER MDP-HD 4K BLACK

This update utility is only for Windows PC's. *It does not work for Apple products.* An adapter can be updated on a PC and then used for Mac applications, but the adapter cannot be updated from a Mac product. This updater is also only for specific GPU's. Other GPU brands will not work.

Before starting the following is required:

- (1) Windows PC running a GPU from Intel, AMD, or Nvidia.
 - a. Note the PC must only have One Display Adapter. Some PC's have Intel GPU and Nvidia software, these will not always work.
- (2) Passive adapter may be required if your PC DisplayPort output is not the same as the adapter to update. Example: a DisplayPort port but you want to update a Mini DP adapter. You would need a passive DP to Mini-DP adapter.
- (3) HDMI cable no more than 2m in length and passive. It cannot be directional
- (4) PC Monitor or Television. You do not need 4K to perform the update.

Procedure:

- (1) Validate the PC's GPU to ensure you know which one to select. This is done by right clicking the computer icon and selecting "Manage". Select "Display Adapters" to see the GPU brand. If the PC has more than one listed, there is a good chance it may not be compatible with the update software.
- (2) Download the Firmware updater (AuxUpdate_0_08.exe) and Firmware Hex file (ps176b0_0x07.0x04.0x55_encrypt_bank12-1.hex) into a specific location on the PC. You will need this later.



- (3) Plug the adapter to be checked and/or updated into the DisplayPort port.
 - a. Plug adapter in if needed to change port from full to mini or vice versa.
- (4) Run the EXE file.
- (5) The screen will ask which video card is in use. Select the appropriate Radio Button.
- (6) The screen will sense the adapter. If it does not sense the adapter an error message will display. PC's running dual display adapters will just hang with no action when you select the right GPU brand. A different PC must be used in these cases.
- (7) The screen will show the current firmware of the adapter, if it is not 7 x 55 then the adapter must be updated. Adapters with 7 x 55 are already updated and require no further action.
- (8) Run the updater. The item will ask for the Hex file location from step 1. The uploader will run and the progress bar will update. This will take 3 to 5 minutes per adapter to update.
- (9) A message will display stating to restart your machine. This can be ignored. The original firmware was designed for video cards and not adapters, adapters do not require a restart.
- (10) Re-query the adapter and validate the firmware has changed to 7 x 55.
- (11) Unplug the adapter and repeat the process for additional adapters.

Sincerely,

Ralph Parrett
Director of Quality & Technical Services
Liberty AV solutions
rparrett@libav.com