

INSTALL GUIDE - IMPORTANT

The Hardwire Kit is a simple plug and play solution to hardwire any Dash Cam. The Hardwire Kit is compatible with 12V/24V DC for car or truck installations.

If you are using a dash camera with Parking Guard function (PG signal needed):

- it is recommended to connect the RED wire of hardwire kit to vehicle battery and YELLOW wire to ACC circuit (the circuit where get power only when vehicle ignited), so the camera will automatically switch between driving recording and parking recording. The parking recording mode and 24X7 hot circuit will help to keep an eye on your vehicle when vehicle parked. (refer the figure on front page)
- but you can also connect the RED wire to vehicle battery together with YELLOW wire to force the camera continue record even when the vehicle parked.
- or you can connect the RED wire to ACC circuit together with YELLOW wire, then the camera will auto boot according ignition status.

If you are using a common dash camera without Parking Guard function, the Parking Guard Hardwire Kit can be used as a common Hardwire Kit, only no need to connect the YELLOW wire or combine it with RED wire together.

- connect the RED wire to ACC the camera will auto boot according ignition status.
- connect the RED wire to vehicle battery for 24X7 continuous recording.

The Hardwire Kit will even auto protect your dash camera from draining your vehicle battery. If your vehicle battery voltage gets too low, the Hardwire Kit will stop powering your camera to save vehicle battery power. You never have to worry about your vehicle battery dying when you're recording videos while parking. Please set the cut off voltage limit according the temperature and how many capacity you'd like to consume before the hardwire kit cut off output. Here is a simple chart for your reference. (the chart maybe different on different battery)

For example:

if the environment temperature is 100°F(38°C),

you want to keep 50% capacity remained when the hardwire kit cut off output, which means the battery voltage around 12.192V, then you should set the cut off voltage to 12.2V band; there will be only 50% capacity used on dash camera recording even after the vehicle parked for a long time. if it is a 50Wh Lead Acid accumulator, the 50% consuming will support around 100 hours camera recording.

TEMPERATURE		12V LEAD ACID CAPACITY & VOLTAGE (Volt)				
°F	°C	100%	75%	50%	25%	0
0	-18	12.842	12.642	12.432	12.252	12.082
10	-12	12.818	12.618	12.408	12.228	12.058
20	-7	12.794	12.594	12.384	12.204	12.034
30	-1	12.77	12.57	12.36	12.18	12.01
40	4	12.746	12.546	12.336	12.156	11.986
50	10	12.722	12.522	12.312	12.132	11.962
60	16	12.698	12.498	12.288	12.108	11.938
70	21	12.674	12.474	12.264	12.084	11.914
80	27	12.65	12.45	12.24	12.06	11.89
90	32	12.626	12.426	12.216	12.036	11.866
100	38	12.602	12.402	12.192	12.012	11.842
110	43	12.578	12.378	12.168	11.988	11.818
120	49	12.554	12.354	12.144	11.964	11.794
130	54	12.53	12.33	12.122	11.94	11.77
140	60	12.506	12.306	12.096	11.916	11.746

There are 4 protecting band setting in the hardwire kit, you can switch according your requirement.

For 12V battery the protecting voltages are 11.8V / 12.0V / 12.2V / 12.4V;

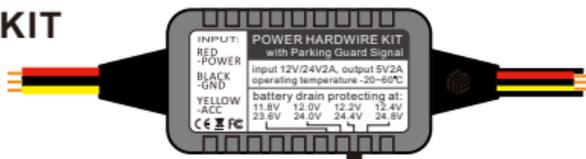
For 24V battery the protecting voltages are 23.6V / 24.0V / 24.4V / 24.8V.

The hardwire kit will identify the Lead Acid Accumulator automatically and protecting from draining.

12.2V/24.4V band is recommended for most users in general working condition.

POWER HARDWARE KIT

with Parking Guard Signal



SPECIFICATION	total cable length	4 meters (input 1 meter, output 3 meter)
	input wires	POWER / GROUND / ACC
	input voltage	typical DC 12/24V, MAX DC 36V, auto detecting
	input fuse recommended	2A 5X20 glass tube fuse or piggyback fuse
	output connector	miniUSB or microUSB plug, DC 5V
	output current	typical 1A, MAX 2A
	output capacity	typical 5W, MAX 10W
	battery drain protection	11.8V/12V/12.2V/12.4V for 12V battery 23.6V/24V/24.4V/24.8V for 24V battery
	other protection	reverse connect protection, short circuit protection, over temperature protection, over load protection,
	working temperature	-20 to 60 C (-4° to 140°F)
control box dimension	40*25*15mm	

- constant power
ground
ignited power
-
- the camera (with parking guard function) will:
record setup normal recording video while driving;
record setup parking guard video while parking;
- constant power
ground
X
-
- the camera (with parking guard function) will:
always record setup parking guard video,
no matter the vehicle is driving or parking;
- constant power
ground
constant power
-
- the camera (with parking guard function) will:
always record setup normal recording video,
no matter the vehicle is driving or parking;
- ignited power
ground
ignited power
-
- the camera (with parking guard function) will:
record setup normal recording video while driving;
power off while parking;
- ignited power
ground
X
-
- the camera (with parking guard function) will:
record setup parking guard video while driving;
power off while parking;
- ignited power
ground
constant power
-
- the camera (with parking guard function) will:
record setup normal recording video while driving;
power off while parking;
- X
ground
any power
-
- the camera (with parking guard function) will:
never power on;

X means no connection or connect to ground