

# Wrangler-2018 BSV interface [High-Trim]

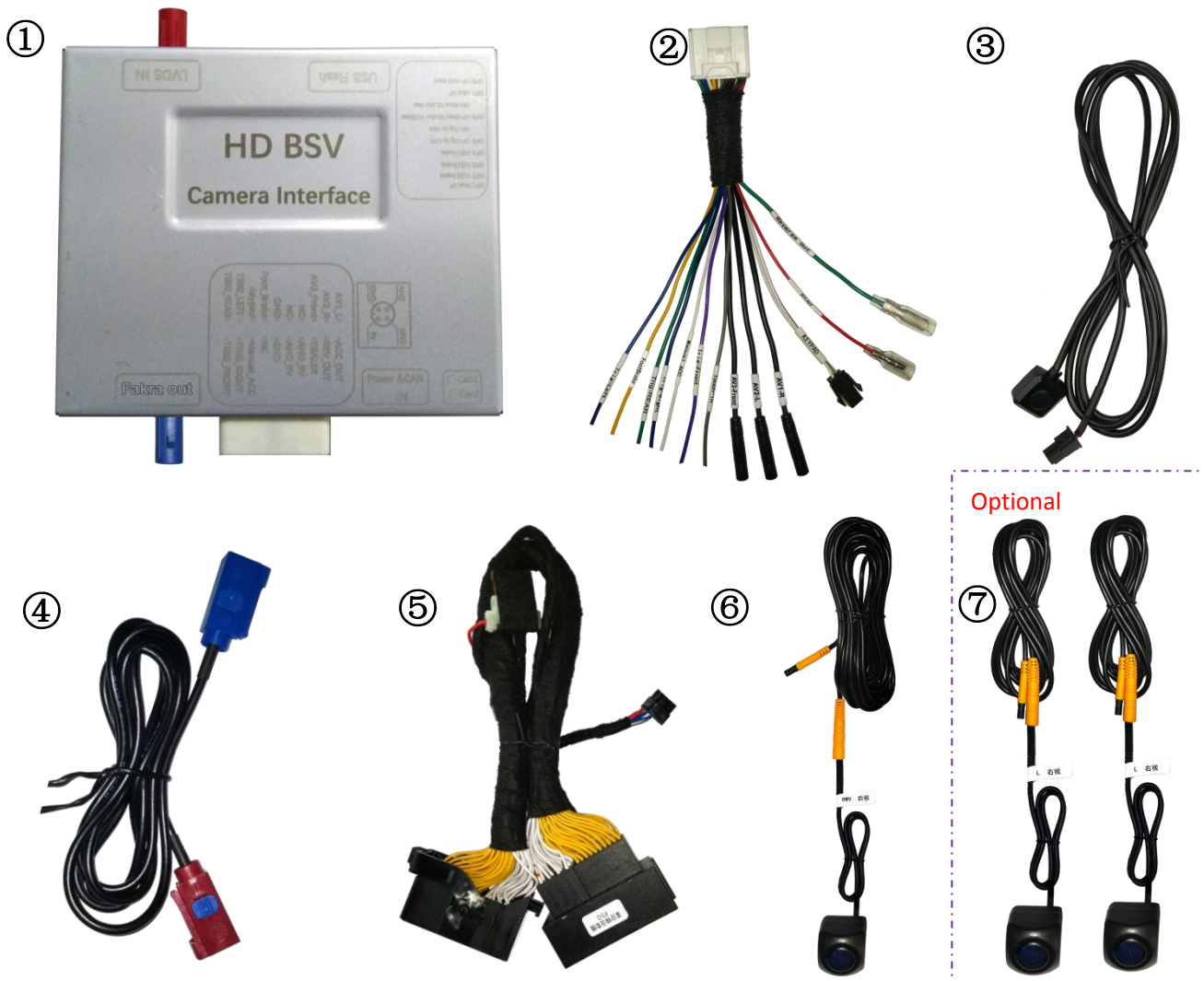
## Installation Manual V20181105

Product type: BSV-High-WRA-JL

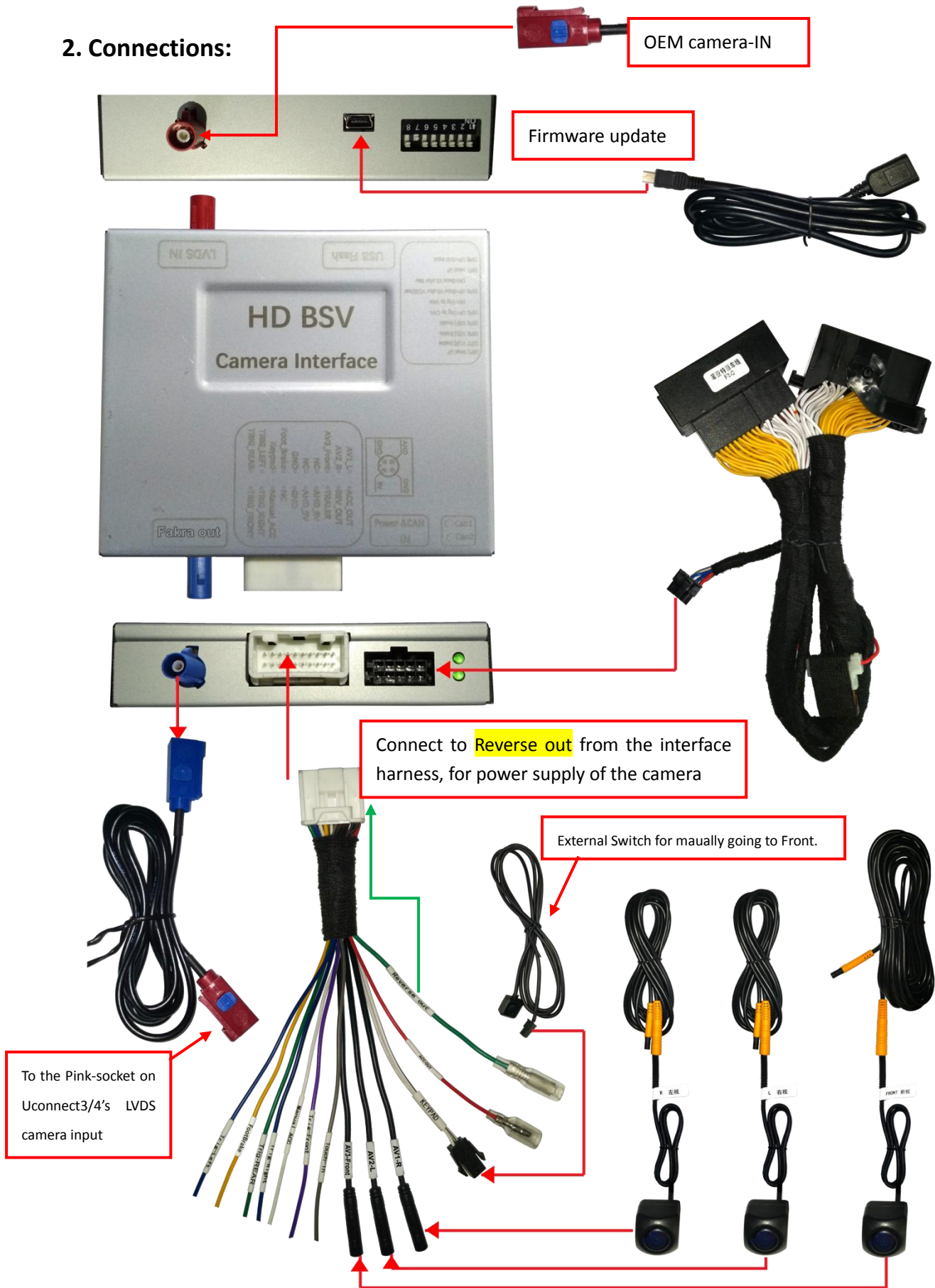
This interface insert 3 camera videos[front,left,right] onto UConnect3/4 monitors, by using the LVDS input of the OE monitor. it offers fast and stable switching. all cameras are 1280x720 HD resolution. the installer can use DIP switch to select installing 1,or 2, or 3 BSV cameras.

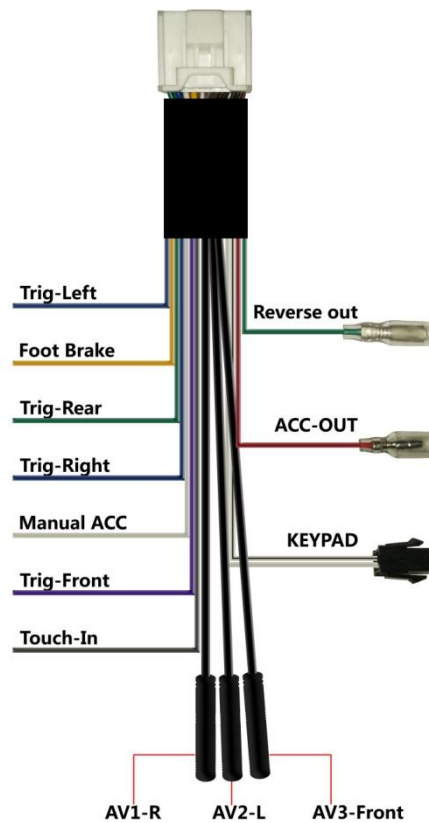
### 1.Accessories:

Item	Qty	Description	Part No.
1	1	Interface box	①
2	1	Power supply harness	②
3	1	Extra keypad for switching	③
4	1	LVDS	④
5	1	Power/CAN harness	⑤
6	1	AHD Front Camera[non-mirror]+5Meters extension	⑥
7	2	AHD left/right Camera[mirror]+2Meters extension	⑦




## 2. Connections:





### 3.Dip settings:

<div> <div>DIP UP=OFF</div> <div>DIP DOWN=ON</div>  </div>			
DIP	OFF	ON	Default
1	Must UP [output selection=LVDS]		UP
2	V1[right]=OFF Right camera will NOT be shown when driver turning right.	V1=ON Right camera will be shown when driver turning right.	DOWN [Right camera installed]
3	V2[left]=OFF Left camera will NOT be shown when driver turning right.	V2=ON Left camera will be shown when driver turning left.	DOWN [Left camera installed]
4	V3=OFF Front camera will NOT be shown when DIP6 trigger happens.	V3=ON Front camera will be shown when DIP6 trigger happens.	DOWN [Front camera installed]
5	UP=Trig by CAN	DN=Trig by Wire	UP
6	UP>Show V3 after V1,2 &Reverse	DN>Show V3 after Reverse	UP
7	Must UP [down=factory software update]		UP
8	UP=AHD Input for all bsv cameras	DN=CVBS Input for all bsv cameras	UP

## 4. Application Scenarios:

### A.OEM reverse camera and Front AHD camera installed:

- 1: the DIP-4 should be ON, to enable front camera.
- 2: the DIP-8 should be OFF, to select AHD camera. all other dips up.

The front camera's video should be connected to V3 【F】.Driver uses keypad switch to Front automatically.

### B.OEM reverse camera and left/right/front AHD camera installed:

- 1: the DIP-2,3,4 should be ON, to enable left/right/front camera.
- 2: the DIP-8 should be OFF, to select AHD camera. all other dips up.

The right camera's video should be connected to V1 【R】 ,left-->V2 【L】 ,front-->V3 【F】。 Driver uses keypad switch to Front, or turn Right/Left automatically.

### C.OEM reverse camera and Front CVBS camera installed:

- 1: the DIP-4 should be ON, to enable front camera.
- 2: the DIP-8 should be ON. to select NTSC-CVBS camera, all other dips up.
- 3: the wire marked "Reverse-out" should be wired to the power supply of camera。

The front camera's video should be connected to V3 【F】。 when the driver use keypad switch to Front, Reverse-out gives 12V, to power on camera and trigger the video display。

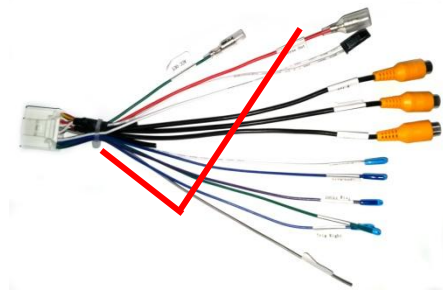
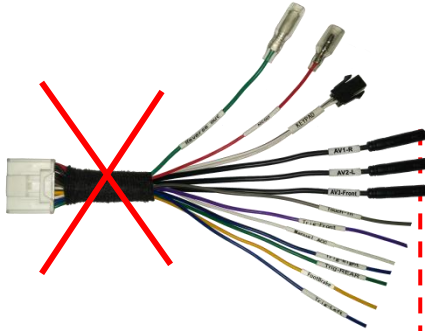
### D.OEM reverse camera and left/right/front CVBS camera installed:

- 1: the DIP-2,3,4 should be ON, to enable left/right/front camera.
- 2: the DIP-8 should be ON. to select NTSC-CVBS camera, all other dips up.
- 3: the wire marked "Reverse-out" should be wired to the power supply of camera。

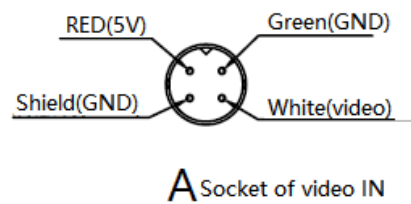
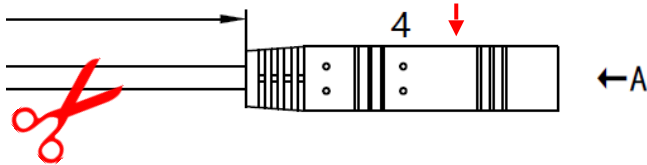
The right camera's video should be connected to V1 【R】 ,left-->V2 【L】 ,front-->V3 【F】。 when the driver use keypad switch to Front, or turn Right/Left, Reverse-out gives 12V, to power on camera and trigger the video display。

✧ When CVBS Front/Left/Right cameras used:

- The installer should use another camera harness like below,



- or just cut the 4Pin-socket off, use the wires to manually make a RCA socket.



When the socket of video input is cut-off, the installer can see 4-wires inside, the definition is like left-top here. He can manually connect a RCA socket, by using the GND and Video wires.

## 5. Parameters:

No.	Name	Parameter
1	Front/Left/Right Cam Video	1.0Vp-p,75Ω ● NTSC-CVBS ● Or AHD:1080*720@30fps
2	Video Amplitude	0.7Vpp with 75 Ω
3	Power supply to cameras	+5V
4	Camera output standard	AHD
5	Total power consumption	4.8W [0.4A @12V] [with 4 cameras]
6	Standby current	<10uA
7	Analog trigger voltage	>5V trigger [internally analog comparators used]
8	Box work temperature	-40 ~ +85C
9	Camera work temperature	-30 ~ +80C
10	Storage temperature range	-40 ~ +85C
11	Size of box	10.8cm * 9cm * 2.1cm
12	USB	Used only when in update

**Note:** for the camera specification, please refer the other separate pdf.