

99.00 EUR incl. 19% VAT, plus shipping

CarPC JoyCon EX converts car steering wheel remote controllers into a PC USB keyboard. You can control MediaPlayer or front-ends (eg. CentraFuse) with your steering wheel audio remote controller. As the buttons of your steering wheel controller are mapped to PC keys of your choice, you will be able to control any software which can be controlled with PC keys from a keyboard.

### Hardware feature

- Converts resistive steering wheel remote controls into USB HID keyboard and HID remote controller.

- Works same as standard USB HID keyboard and HID remote controller by hardware.
- 24V tolerant 4 channel resistive(voltage) input.
- Supports 28 physical buttons, 52 programmable logical buttons.
- Long and Short button for one physical button, up to 5 simultaneous key strokes by one button.
- 2 programmable LED port.
- Remote wake-up(resume PC from sleep with steering wheel remote controls).
- Channel Master/Slave selectable
- Temperature range : -40 ~ +85°C

#### JoyCon Explorer-aided feature

- Preset change by Preset up and down buttons.
- Speech and OSD when preset is changed, when button is pressed.
- Application link(application launches and pops up with preset changing).
- User definable Button Speech and OSD.
- Automatic Button Detection
- Rearview with USB camera
- Online firmware update.

- No external power or driver installation needs.

- Available OS : Windows 7, Vista, XP, 2003

(JoyCon Explorer supports Windows XP and the later version. JoyCon Explorer does not support Linux. But CarPC JoyCon Exr works on Linux and Mac after it is configured at Windows.)



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A		В	C/D	LED			-							
	Rang		Button Position	S-Hold Time	Critical Time	L-Hold Time	-			-				-
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A2	9	*	12 🛟	15 🛟	30 💠	15 🔹	A1 A2			A3 A4				
A3	8	4. ¥	98 🛔	0	0 💠	0								
A4	8	*	119 🗧	0 🕂	0 🗧	0 +	ţ.							<b>1</b>
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A7	0	*	0 +	0	0 +	0 +	-			C1 C2				
AB	0	*	0 +	0	0 +	0 +	Esc F1	F2 F3 F4	F5 F6 F7 F	F8 F9 F10				4+4 4
A9	0	*	0 +	0	0 +	0 4	1 2	3456	789	0 - =		ne Bage Num/		44 >    >>
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								1.8	191				192	
							LED	Media	Media	Media	Media	Power	System	
							control	player cla	playe	Player seek	Playe	Control	Volume	
								1.01	Lei		101	191		
							TV channe	TV volume	Winamp seek	Winamp volume	Zoom player seek	Zoom playe		

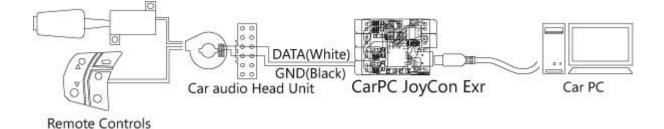
App Link enables to launch application with steering wheel remote control's button and switch application when preset is changed.

Fo	der Bu	tton Sp	eech  P	reset M	isc FW	1(CPJexr):CarPC JoyCon Exr	pp Link Image		
_	Resistor Range	C/D Button Position	LED S-Hold Time	Critical Time	L-Hold Time	Diable Application Link Application can be assigned for preset.     Winimize Other Windows You can run and popup the application with     Use Application Launch Speech	h preset button.		
A1 A2 A3	8 9 4 4 4	0 + 12 + 98 +	15 ÷ 15 ÷	30 + 30 + 0 +	15 ++ 15 ++ 0 ++	Name(for speech): Winnamp Hear Minimize bet Confirm Top Full Path of Application: Maximize	fore activate Window		
A4	8	119 ÷	0	0 ÷	0 -	C: WProgram Files WWinamp Wwinamp.exe			
A5	0	0 ÷	0	0 -	0 +	Choose one of the current running applications			
A6	0 💠	0 +	0	0 +	0 +				
A7	0 ÷	0 +	0	0	0 -	Winamp 5.601			
AB	0 ÷	0 +	0 +	0 +	0 +				
A9	0	0 +	0	0 4	0 *				
A 10	0 💠	0 4	0 +	0 +	0 +				
A11	0 💠	0 +	0	0	0 +				
A12	0	0 +	0 +	0 +	0 +				
Cle	ar	Auto Det	ect	Save/	Apply	Parameter:			
						L E D Media player cla Media Player seek Playe Control TV channel TV volume Winamp seek Winamp volume player seek player	System Volume		
4									

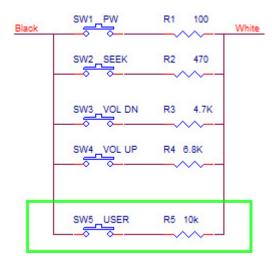


http://www.changjack.com/software/Jex\_Setup\_XP(141013).zip http://www.changjack.com/software/Jex\_Setup\_Win7\_8\_10(160620).zip

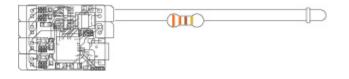
Connect two wires of CarPC JoyCon Exr's input channel to the remote controls, and connect USB.



This is the typical resistance-output steering wheel remote controller's circuit. You can put additional buttons like green box below by DIY, if you want.



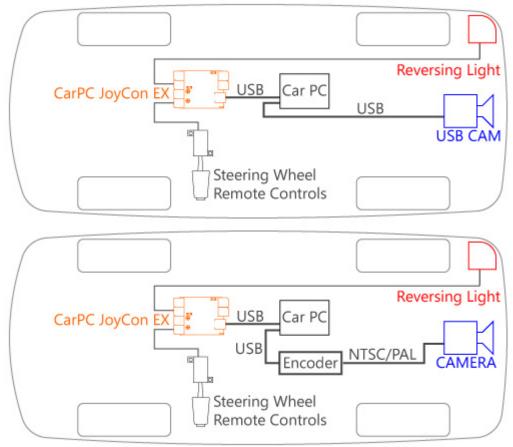
You can control two external LED.



UserGuide http://www.changjack.com/user\_guide/cpjexr/CarPC\_JoyCon\_Exr\_UserGuide\_eng.pdf



You can use typical USB cam as a rearview camera with CarPC JoyCon Exr. Any USB camera or video capture device can be rearview camera.



Rearview pops up when Channel C detects reversing light,



Folder Button Speech Preset Misc FW	I(CPJexr):CarPC JoyCon Exr
A B C/D LED	
Resistor Button Hold Range Position Time	
1 55 184 15 15	
2 12 + 244 + 15 +	A1 A2 A3 A4
Contract and the second s	
Channel C for Rearview Camera	
Rearview Camera Speech	C1 C2
Rearview Camera Sound	Esc F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 8tt ScriBrk d+ 4 4
View Rearview Camera	1 2 3 4 5 6 7 8 9 0 = \ ← Ins Home Page Num / + - (()
/ideo Capture Device(like US8 PC cam) is required	Tab Q WE R T Y U I O P [ ] Del End See 7 8 9 +
or Rearview.	Caps A S D F G H J K L F Enter 4 5 6 $\leftrightarrow c$
1 : Turn off rearview(reversing light off)	
2 : Turn on rearview(reversing light on)	Shift Z X C V B N M' / Shift ↑ 1 2 3 H 🖂 🕏 🖸
2 : Turn on rearview(reversing light on)	Shift Z X C V B N M ′ ′ / Shift ↑ 1 2 3 H 🖂 🕏 🖸
2 : Turn on rearview(reversing light on)	Shift Z X C V B N M'     / Shift     ↑     1 2 3 +     ✓ S C       Ctrl ⊞Alt     Alt     B C Ctrl ← V → 0     1 2
2 : Turn on rearview(reversing light on)	Shift Z X C V B N M ' / Shift ↑ 1 2 3 Ctrl ⊞Alt Alt B Ctrl ← ↓ → 0 1 2 1 2
2 : Turn on rearview(reversing light on)	Shift Z X C V B N M / / Shift ↑ 1 2 3 Ctrl ⊞ Alt Alt B Ctrl ← ↓ → 0 1 2 3 LED Media Media Media Media Power System
2 : Turn on rearview(reversing light on)	Shift     Z     Z     V     B     N     M     /     Shift     ↑     1     2     3     ✓       Ctrl     Image: Alt     Alt     Image: Ctrl     ✓     →     0     1     2       L E D     Media     Media     Media     Media     Media     Power     System       control     player.cla     playe     Player seek     Playe     Control     Volume
2 : Turn on rearview(reversing light on)	Shift Z X C V B N M / / Shift ↑ 1 2 3 Ctrl ⊞ Alt Alt B Ctrl ← ↓ → 0 1 2 3 LED Media Media Media Media Power System

Jex Cam shows when reversing light is detected.

Any video capture device can be rearview camera.

Horizontal and Vertical Mirror is supported.



<ul> <li>Jex Cam</li> <li>Capture Device FusionHDT Format Resolution Frame Rate</li> <li>320x240 30 +</li> <li>640x480</li> <li>720x480</li> <li>800x600</li> <li>USER</li> </ul>	V, WDM Video Capture  Screen Size 320x240 Mirror Horizontal 640x480 No Mirror Vertical 800x600 No Mirror 1:1 Full Screen	_ <b>—</b> X
640 X 480 Default Apply Video Format NTSC_M	Property1 Property2 Camera idle after 30 🔹 s	
Jex Cam 10031 JoyCon Explore	7A - Camera Viewer	

This video shows rearview test with USB camera.

How to use Steering wheel remote controls in Centrafuse

#### Supported cars(reported so far):

Alfa Romeo 156 2.0 JTS Chevrolet Captiva Chevrolet Cavalier Citroen Xantia Citroen XSARA 1997-2000 Dodge Durango Fiat GrandePunto Ford Fiesta Ford Focus Ford Fusion 2010 Ford Mondeo Ford Mondeo MK2 1996-2000(Resistive PCB is required) Ford Ranger(Cruise control only) GM Cadilac Escalade 2002 GM Daewoo all model Honda CRZ Honda Ridgeline



Hyundai all model(except Sonata2/3, Marcia, Santamo) KIA all model Land Rover Discovery 4 Mazda3 2004-2009 Mitsubishi 380GT 2006 Nissan 350Z Nissan Cube Nissan Murano Nissan Navara 2007 Peugeot 306(Resistive PCB is required) Peugeot 806 Pontiac Firebird 96 Renault Samsung SM5/7(Audio controller only) Rover SAAB 9-3 9-5 Scion TC 2006 Subaru Impreza Suzuki SX4 Toyota Camry 2005 - 2010 Toyota Corolla 2004(Cruise control only) Toyota Corolla 2009-2010 Toyota Land Cruiser 2004 Toyota Landcruiser 200 series (2007 - 2010) Toyota Lexus 330 Toyota supra 1990 Toyota Yaris Vauxhall Astra G 1998-2004 Vauxhall Vectra 1999-2002 Vauxhall Vectra B 1996-2002 Vauxhall Zaffira A 1998-2005 and many other cars with resistive steering wheel controls

## Supported remote controller: Sony RM-X2S

Sony RM-X11M





# What is different Exr from Ex? Exr is almost same with Ex.

Exr can select master/slave mode by software option(at JoyCon Explorer). Master mode is to connect CPJexr to PC only. Slave mode is to connect CPJexr both to PC and Car Radio.

In the previous EX version, user had to desolder the diodes on the PCB manually to use slave mode.

And Exr has an extension port for future upgrade.