



Thank you for choosing ORCA Products. Welcome to the power and convenience of Brushless RC. By purchasing the R32 Competition Brushless Electronic Speed Control ("ESC") you have chosen one of the most advanced speed controls in RC Racing. The R32 allows customization for multiple programmable parameters (using the ESC's Program Card which can be purchased separately). Please read this manual thoroughly to familiarize yourself with the installation, setup and operation. By operating this product, you accept the ORCA Warranty Terms.

Specification	
*** 32 bit processor *** Continuous current	*** Low resistance FET *** Auto Fan control
System: Forward/Brake/Reverse: Dimensions: Weight: Voltage Input:	Brushless Yes (Factory preset at Forward/Brake) 41(L) x 36(W) x 20(H)mm 46g (excluding wires) (4.8 – 9.9V DC) 6 Cells NiCD/NiMH 2-Cell LiPO / 2-3 Cell LiFe
Peak Current: Motor Limit:	760A Over 4.5 Turns
Motor Type: B.E.C.:	Sensored 540 sized brushless motors 6V / 7A / 3.0A
Multi Protection System:	Yes

Installation & Connectors

BATTERY + RED - BLACK

- · Position the ESC where it is protected in the event of a crash. Use the supplied double sided tape to secure the ESC to the chassis
- · Install/Solder the relevant battery connector (Battery Specific) to the battery wires. RED to +ve and BLACK to -ve. (WARNING! Reversing the battery polarity will destroy your ESC and void the warranty.)
- · Connect supplied BEC wire(180mm) to 3pin port match the "- + s" between the receiver connector and ESC
- Connect supplied Switch wire to 2pin port (- o).

Connect the 3 motor wires to the motor; you can either solder the wires directly to the motor or use your favorite connectors. Match the label of the ESC Output (A, B, C) to the Tab labels on the motor when soldering. Avoid soldering each joint for longer than 5 seconds. Prior to operation make sure you have not created a short by either creating a wire bridge or solder bridge on the solder tabs on the motor. (WARNING! Improper wiring may damage the ESC and void the warranty.)

· Connect the sensor cable between the ESC sensor plug and the Motor sensor plug

- Connect the receiver plug to the CH2/throttle pin of the receiver.
- · Secure the on/off switch in a place where it will not be accidentally knocked to the "off" position during a crash
- · The Fan port voltage is drawn directly from the battery.
- The Motor configuration A-B-C can be changed to C-B-A in the Initial Setup section of the Program Card. Ensure that your physical wiring configuration of A-B-C match the Initial Setup options of the Program Card. (WARNING! Improper configuration may damage the ESC.)

Radio & ESC set-up

Transmitter Settings:	
Throttle Travel	Maximum / 100%
Brake Travel	Maximum / 100%
Throttle Exponential	Start with 0%
Throttle Neutral Trim	Center / 0
Throttle Servo Reverse	Reverse (Futaba, KO, Sanwa)

Initial set-up of the throttle end-points of the ESC:

- · Connect the power wires of the ESC to a fully charged battery set; making sure the polarity is correct.
- · Bind your receiver and transmitter first if your radio requires you to do so.
- · Turn on the transmitter and hold the throttle at full brake position
- · Turn on ESC and listen for 2 beeps.
- After you hear the 2 beeps, apply full throttle and listen for another 2 beeps Once you hear the 2 beeps, release the throttle to neutral position.
- · A beep will then sound, signifying that the ESC endpoints have been successfully set
- Note! If you do not hear the beeping sound as described above, try reversing the throttle reverse setting in the transmitter



Due to the different requirements of each style and class of racing, it is important to customize your ESC for each use case. Customization of the ESC is done using the Program Card (Sold Separately):



To begin, connect the battery wires to a charged battery, then connect supplied 4pin wire (200mm) to the ESC setting port (4pin port) and Program Card. Turn on the ESC and the Program Card will activate automatically. Note that the screen will show "Loading..." during initialization - indicating that the ESC is copying the current setup in the ESC to the Program Card. Once loading is completed the screen will show "ORCA R32 Pro" and "Program". You can now begin programming your ESC.

Press "Enter" to access Program Mode or Data Reading.

There are 4 Modes available: Blinky, Modified, Open Stock Brushless and Offroad profiles are pre-loaded within the firm-ware

TIPS! Whenever in doubt, double check your ESC setting by initializing the Program Card again and checking each menu setting

Navigation around the Program Menu is done using the 4 buttons on the right hand side of the Program Card. The function of each button varies depending on which screen the display is showing:

"Select" button---ao to next select Press and Hold "Select" button two second -----go to back page

"▲"

"▼

"En

' button	- Scroll up
' button	- Scroll down
nter" button	 Send Changes from Program Card to the ESC and overwrite old data in th
	ESC

NOTE! The Program Card is not included and is sold separately. The Program Card will compare the Parameters within the card and ESC before

sending. If changes are detected, you will hear a series of beeps and the Program Card will display:



TIPS! Do not worry about making mistakes. You will not damage the ESC during setting. If in doubt, you can always reload the default set up and start over again.



Getting started

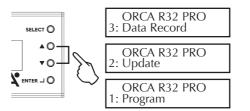
Operation



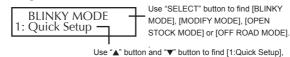
Use "▲" button and "▼" button to find [Program], [Update] or [Data Record].

Press "____" button to choose. Each mode presented are independent from each other and will require setup

Press "SELECT" button for 2 seconds to go back to the previous screen.



1. Program



[2:Advance Setup], [3:Initial Setup] or [4:Load & Save].

Press ", " button to choose mode.

2. Update

Updating of ESC Firmware: Scroll to the "Update" menu and press "Enter". This will show the current ESC FW Version. Press "Enter" again to access the SD cards Firmware folder. Select the FW Version that you would like to use to update the ESC. Press "Enter" again and the update will commence (It will take around 1 minute to complete the update).

Updating of Program Card Firmware:



Depress and hold the Program card's "Enter" button while turning on the ESC. It will display the current Program card FW Version. Press "Enter" again to access the SD cards Firmware folder. Select the FW Version that you would like to use to update the Program Card. Press "Enter" again and the update will commence (It will take around 1 minute to complete the update).

Preparing the SD card for use:

Format a microSD card using FAT32 file structure using a personal computer. If you are using a Micro SD Card larger than 32GB, you will need to use a 3rd party SW Package to do this. Create a new folder called "Firmware". Download the latest firmware from www.orcarc.com/firmware/ and copy the file to the "Firmware" folder on the Micro SD card. Once completed, install the MicroSD card into the microSD card slot of the Program Card. Both the Program Card and ESC FW Files need to be copied in to the "Firmware" Folder. A maximum of 10 of each ESC/ Program card firmware can be present in the folder at any one time

Operating Tips

Multi Protection System - In addition to the Low Voltage and Overheat Protection that were described above, the ESC is protected in 2 more ways.

Motor Lock Protection

- · The ESC is protected against damage when the motor is stuck and does not turn at all. Power will not be applied in this situation.
- · CAUTION! Since the ESC relies on the feed back of the 3 motor wires to deploy this protection, it ONLY works if the motor does not turn AT ALL. If the rotor has any rotation, the ESC will consider the motor to be operational and the power to the motor will not be cut off

Fail Signal Protection:

• In case the radio signal to the ESC is interrupted for over 1 second during a run, the ESC will cut off until the signal resumes.

ROAR Stock Spec Racing:

ROAR has announced the new class of Stock Spec Racing using a zero degree timing ESC with Spec Motors known commonly as 'Blinky' classes. The R32 ESC satisfies the ROAR requirement showing a blinking LED when set at 0 timing and 0 turbo timina.

	1.Punch	Level:1-15	15		
Quick Setup	2.Pulse Width Modulation (PWM)	2000-32000Hz			
Quick Octup	3.DragBrake	OFF	OFF		
	-	1%-30%			
	4.Compress	0%-50%	10%		
		-5			
		-4			
		-3			
		-2			
	1.PunchFineTune	-1			
		Normal	Normal		
		+1			
Advance Setup		+2			
Advance Setup		+3			
		+4			
		+5			
•	2.BrakeFreq	800-5000Hz	800		
	3.Initial Brk P.	Level: 1-15	15%		
		0-60%	60%		
	5.Initial Brake range	0-100%	50%		
	6.Max Brk P.	Level: 1-15	vel: 1-15 15%		
	7.MaxbrakeForce	0-100%	100%		
		Forward/Brake			
	1.RunningMode	Forward/Rev	E		
	1.Rummigivioue	For/Brake/Rev	Forward/Brake		
	For/Hold/Rev				
		LiPolymer			
	2.Battery	LI-FE	LiPolymer		
		NI-XX			
		OFF			
	3.CutOffVolage	LOW	OFF		
	5.GutOnvolage	MIDDLE			
		HIGH			
		95°			
	4.EscOverHeat	105°	120°		
	4.2000 von loat	120°			
		No Protection			
Initial Setup		95°			
	5.MotorOverHeat	105°	120°		
		120°	.20		
		No Protection			
	6.NeutralRange	2%-15%	5%		
	7.EscMotorLink	A + B + C	A + B + C		
		C + B + A			
		Auto	_		
		40%			
	8.Fan Mode	60%	Auto		
		80%			
		100%			
	9.BEC Voltage	6V	6V		
		7V	0 0 0		
	10.MotorAction	CCW	ccw		
		CW			

Misc. Tips:

Blinky Mode

- · Connect the ESC to the battery pack only when you are ready to run. This will avoid draining the battery pack. Always disconnect the battery after your run. A small spark may occur when the battery is initially connected to the ESC. This
- is normal and is due to the charging of the capacitors.

Detailed Explanation of each ESC Menu items Quick Setup:

- 1) Punch Allows you to change the punch of the ESC (Level 1 to Level 15)
- Level 1 has the least punch and Level 15 has the highest punch.
- Adjust punch level to maximize acceleration speed with minimum
- wheel spin. 2) Pulse Width Modulation (PWM) (This function can be found in the "Advance setup" except Blinky mode) - Allows you to change the forward drive frequency of the ESC (2K to 32K step by 500HZ)
- The 2K setup will give you good punch at the low end.
- The 32K setup will result in strong mid to top end.
- Experiment to find out what suits your driving style best. (Lower PWM will lower ESC temperatures while higher PWM settings may increase ESC temperatures and Higher PWM will course ESC more heat.) Ensure that your physical wiring configuration of A-B-C match Initial Setup options of the Program Card.

Modified Mo	1		7	Open Stock	1.Punch	Level:1-15	1.4
	1.Punch	Level:1-15	7				14
	2.Timing	OFF	6		2.Timing	OFF	45
		100°	ů			100°	
		OFF			3.TurboTiming	OFF	100
	3.TurboTiming	100°	- 58	Quick Setup	Ŭ	100°	1
Quick Setup	4.TurboDownRake	Fastest	15		4.TurboDownRake	Fastest	-15
		(-1)-(-30)				(-1)-(-30)	
		OFF			5.DragBrake	OFF	0
	5.DragBrake	1%-30%	12			1%-30%	1 -
		-5			1.PunchFineTune	-5	
		-4				-4	
		-3	1			-3	1
			- 1				1
		-2	- 1			-2	-
		-1				-1	
	1.PunchFineTune	Normal	Normal			Normal	Norma
		+1				+1	1
							-
		+2				+2	
		+3				+3	
		+4	1			+4	1
			-				-
		+5				+5	
	2.Pulse Width Modulation (PWM)	2000-32000	16000		2.Pulse Width Modulation (PWM)	2000-32000	16000
	3.Compress	0%-50%	0%		3.Compress	0%-50%	10%
	· · · · · · · · · · · · · · · · · · ·						
	4.TimingStart	0%-90%	45%		4.TimingStart	0%-90%	15%
	5.TimingRange	0-50%	40%		5.TimingRange	0-50%	18%
Advance Setup		OFF		AdvanceSetup		OFF	
Advance Octup	6.TurboDelay		0.03	AuvanceSetup	6.TurboDelay		0.02
		0.01s				0.01s	
	7.TurboStart	40%-100%	95%		7.TurboStart	40%-100%	95%
	-	-5				-5	
		-4	- 1			-4	-
							-
		-3				-3	
		-2				-2	
		-1	- 1			-1	1
			I				-
	8.TurboPunch	Normal	Normal		8.TurboPunch	Normal	4
		+1	1			+1	-
		+2	- 1			+2	
			- 1				
		+3				+3	
		+4				+4	
		+5				+5	
		-					
	9.BrakeFreq	800-5000Hz		9.BrakeFreq	800-5000Hz	1000	
	10.InitialBrake	0-60%		10.InitialBrake	0-60%	36%	
	11.Initial Brake range	0-100%	60%		11.Initial Brake range	0-100%	60%
	12.MaxbrakeForce	0-100%	68%			1	1
	12.WaxblakeFulce		00 70		12.MaxbrakeForce	0-100%	68%
	1.RunningMode	Forward/Brake	Forward/Brake		1.RunningMode 2.Battery	Forward/Brake	Forward/Brak
		Forward/Rev				Forward/Rev	
		For/Brake/Rev				For/Brake/Rev	
		For/Hold/Rev				For/Hold/Rev	
		LiPolymer				LiPolymer	
		LI-FE	LiPolymer			LI-FE	
		NI-XX	I			NI-XX	
		OFF	_ I			OFF	
		LOW	OFF		3.CutOffVoltage	LOW	OFF
	3.CutOffVoltage	MIDDLE				MIDDLE	
		HIGH				HIGH	
		95°				95°	
		105°	1 I			105°	1
	4.EscOverHeat		120°		4.EscOverHeat		120°
		120°	. I			120°	-
		No Protection	1			No Protection	
Initial Setup	95°		- 120°	Initial Setup		95°	_
	5.MotorOverHeat	105°			5.MotorOverHeat	105°	120°
	5.MotorOverHeat	120°			5.Wotor Over neat	120°	
		No Protection				No Protection	1
	6 Noutral Dencia		E0/		6 NoutralDen		=0/
	6.NeutralRange	2%-15%	5%		6.NeutralRange	2%-15%	5%
	7 5 - 1 - 1 - 1	A + B + C			7	A + B + C	
	7.EscMotorLink	C + B + A	A + B + C		7.EscMotorLink	C + B + A	A+B+
		Auto	4 1			Auto	-
		40%	Auto		8.Fan Mode	40%	1
	8 Fan Mode	60%				60%	Auto
	8.Fan Mode						
			1 I			80%	1
		80%					4
		80% 100%	- I			100%	1
		100%					
	9.BEC Voltage	100% 6V	6V		9.BEC Voltage	6V	- 6V
		100% 6V 7V	- 6V		9.BEC Voltage	6V 7V	- 6V
		100% 6V	6V CCW		9.BEC Voltage	6V	- 6V CCW

Off Road Mc	do ob		
	1.Punch	Level:1-15	10
	2.Pulse Width Modulation (PWM)	2000-32000	12000
	3.Timing	OFF	- 4
Quick Sotup		100° OFF	
Quick Setup	4.TurboTiming	100°	- off
		Fastest	45
	5.TurboDownRake	(-1)-(-30)	15
	6.DragBrake	OFF	3
		1%-30%	
		-5	-
		-4	-
		-3	-
		-1	1
	1.PunchFineTune	Normal	Normal
		+1	-
		+2 +3	-
		+3	-
		+5	1
	2.ReverseForce	0%-100%	35%
	3.Compress	0%-50%	0%
	4.TimingStart	0%-90%	55%
AdvanceCotur	5.TimingRange	0-50% OFF	30%
AdvanceSetup	6.TurboDelay	0FF 0.01s	0.02
	7.TurboStart	40%-100%	95%
		-5	
		-4	
		-3	
		-2	_
	8.TurboPunch	-1 Normal	Normal
		+1	Normai
		+2	-
		+3]
		+4	
		+5	
	9.BrakeFreq 10.Initial Brk P.	800-5000Hz Level: 1-15	2000 15%
	11.InitialBrake	0-60%	20%
	12.Initial Brake Range		50%
	13.Max Brk P.	Level: 1-15	15%
	14.MaxBrakeForce	0-100%	80%
		Forward/Brake	
	1.RunningMode	Forward/Rev	Forward/Brake
	5	For/Brake/Rev	
		For/Hold/D	-
		For/Hold/Rev	-
	2.Batterv	LiPolymer	LiPolvmer
	2.Battery		LiPolymer
	2.Battery	LiPolymer LI-FE	LiPolymer
		LiPolymer LI-FE NI-XX OFF LOW	LiPolymer
	2.Battery 3.CutOffVoltage	LiPolymer LI-FE NI-XX OFF LOW MIDDLE	-
Initial Setup		LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH	-
Initial Setup	3.CutOffVoltage	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95°	OFF
Initial Setup		LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH	-
Initial Setup	3.CutOffVoltage	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105°	OFF
Initial Setup	3.CutOffVoltage	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95°	OFF
Initial Setup	3.CutOffVoltage	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105°	OFF
Initial Setup	3.CutOffVoltage 4.EscOverHeat	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120°	0FF 120°
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection	0FF 120° 120°
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120°	OFF 120° 120° 5%
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15%	0FF 120° 120°
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15% A + B + C	OFF 120° 120° 5%
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange 7.EscMotorLink	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15% A + B + C C + B + A Auto 40%	OFF 120° 120° 5% A + B + C
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15% A + B + C C + B + A Auto 40% 60%	OFF 120° 120° 5%
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange 7.EscMotorLink	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15% A + B + C C + B + A Auto 40% 60% 80%	OFF 120° 120° 5% A + B + C
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange 7.EscMotorLink 8.Fan Mode	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15% A + B + C C + B + A Auto 40% 60%	OFF 120° 120° 120° 5% A + B + C Auto
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange 7.EscMotorLink	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15% A + B + C C + B + A Auto 40% 60% 80% 100%	OFF 120° 120° 5% A + B + C
Initial Setup	3.CutOffVoltage 4.EscOverHeat 5.MotorOverHeat 6.NeutralRange 7.EscMotorLink 8.Fan Mode	LiPolymer LI-FE NI-XX OFF LOW MIDDLE HIGH 95° 105° 120° No Protection 95° 105° 120° No Protection 2%-15% A + B + C C + B + A Auto 40% 60% 80% 100% 6V	OFF 120° 120° 120° 5% A + B + C Auto

- Drag Brake Also known as trail braking allows you to set the automatic brake force applied when the throttle returns to neutral position (30 steps from 0% to 30%):
- Drag Brake affects how a car handles off-throttle (entering a corner).
 With drag brake on, there will be more weight shift to the front tires thus increasing the front end grip when you let go the throttle.
- Experiment with different settings to find the setting that fits your driving style.
- 4) Compress (found in "Advance Setup" menu, Except for Blinky mode where it can be found in "Quick Setup") This is for throttle curve, the higher the number, the more responsive the throttle feels at bottom end. 0% is linear throttle response. That's mean throttle compress, than will course you more sensitive in the throttle bottom.
 5. Timing (Evcort "Disku Mede"). Allow you to adjust the timing of
- Timing (Except "Blinky Mode") Allows you to adjust the timing of the motor (0°-100° Mode 1° increments):
- Generally speaking, in brushless systems, an increase in timing will result in an increase in the RPM of the motor. However, increase in timing can also decrease the efficiency of the system, thus generating heat on the ESC and motor.
- Lower timing has the most torque and the lowest RPM; Higher timing has the least torque and the highest RPM.
- 6.) Turbo Timing (Except "Blinky Mode") Turbo Timing is unique to brushless systems because the ESC can simulate motor timing advance. While mechanical timing advance in a brushed motor system is limited by the physical phasing of the motor, brushless ESC timing advance can push beyond that physical limit. As a result, motors can run at a super-high RPM in the Turbo Timing mode, resulting in a sensation of having a 2nd gear/Turbo for top speed. This menu allows you to adjust the amount of Turbo Timing in your ESC in 1° increments. (The "Turbo Timing" should never be greater in value than Timing)
- 7) Turbo down rank (Except "Blinky Mode") This is an opposite side Turbo timing for braking, preset -15, if you set the value to -30, this will smooth the throttle response as you slow from top speed, if you value set to -1, this will have more drag brake effect when you release throttle from top speed.

Advance Setup:

- Punch fine tune Allows you fine tune your Punch setting more detail, if you set (+1) your punch will up to 7.1 when the punch setup is 7, if you set (-1) your punch will down to 6.9 when you setup is 7.
- Timing start Allows you to adjust early or later to add timing in bottom power, this will make it easy to get a smooth power band in bottom power.
- 3) **Timing range** Allows you to adjust a smooth power band in middle power.
- Turbo delay Delay how long to start your turbo timing when you touch the throttle turbo point.
- 5) Turbo timing Turbo Timing is unique to brushless systems because the ESC can simulate motor timing advance. While mechanical timing advance in brushed motor system is limited by the physical phasing of the motor, brushless ESC timing advance can push beyond that physical limit. As a result, motors can run at a super-high RPM with the assitance of Turbo Timing, resulting in the sensation of having a 2nd gear/Turbo for top speed. This menu allows you to adjust the amount of Turbo Timing in your ESC in 1° increments. (The Turbo Timing value shall never be bigger than the Timing value.)
- Turbo Timing is applied at 95% (preset) throttle.
- Higher Turbo Timing settings will increase top speed, motor and ESC temperatures as well.

Caution! Always monitor motor and ESC temperatures closely when applying timing to the ESC or motor. Heat may build up very fast in both ESC and motor and may cause permanent damage to equipment.



All ORCA products are manufactured in accordance with the highest quality standards. ORCA guarantees this product to be free from defects in materials or workmanship for 60 days from the original date of purchase verified by sales receipt. This limited warranty does not cover damages resulting from abnormal wear, misuse or improper maintenance of the product.

To avoid unnecessary service and mailing charges, always eliminate all other possibilities and check all components for malfunctions before sending in your unit for repair. Products sent in for repair that operate perfectly will be charged a service fee.

When sending in the product, always pack carefully and include the original sales receipt, a description of the problem encountered, your return address and contact information.

Since we do not have control over the installation and use of this product, we cannot accept any liability for any damages resulting from the usage of this product. Therefore, using this product is at your own risk, and the user accepts all resulting liability from installing and using of the product.

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