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2024

find your road

-CONTENTS

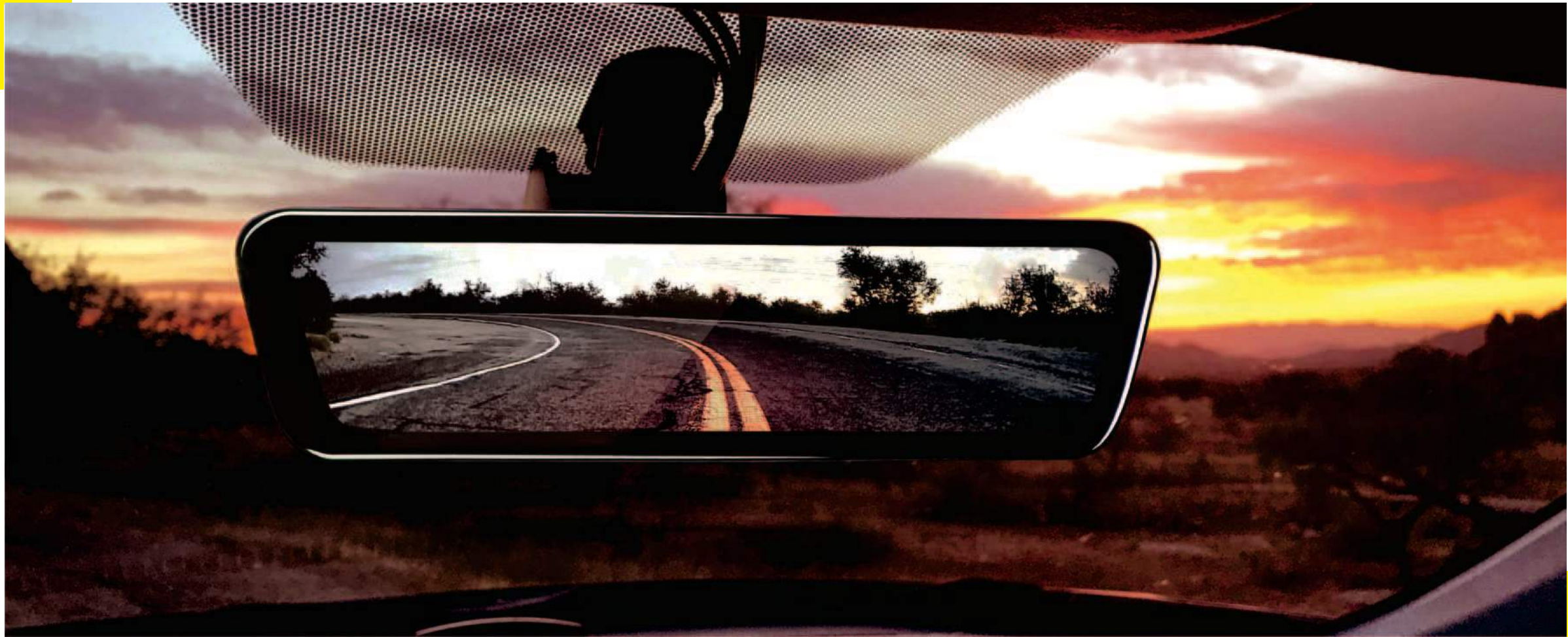
-01 SAFETY PRODUCTS

Digital Mirrors	01-10
Digital Monitors	11-12
Digital AHD Cameras	13-16
Analog CVBS Cameras	17-18
Digital Blind Spot Systems	19-20
Digital Parking Sensors	21-22
Product Line Overview	23-24

-02 TESLA ACCESSORIES

8.8" HD LCD CarPlay Screen	25-26
Intelligent Instrument Display 8.8	27-28
Intelligent Instrument Display 6.2	29-30
Intelligent Instrument Display 3.5 Mini	31-32
Rear Console 7.0 Control System	33-34
Multi-Directional Screen Swivel Kit	35-36
Tempered Glass Screen Protector	36
Auto Door Handles	37-38
Soft Door Locking Mechanism	39-40
Laser Engraved Ambient Lights	41-42
Power Frunk	43-44
Soft Closing Frunk Mechanism	45-46
Power Trunk	47-48
Electric Sunshade Lite	49-50
Intelligent Sunroof 2.0	51-52

Ventilated Seats 2.0	53-54	Spoilers	76
Electric Footrest	55-56	Carbon Fiber Body Kits	77-78
Rear Seat Folding Table	57-58	Under Body Protection Panels	79-80
Portable Refrigerator / Freezer for Trunk	59-60		
Steering Wheel 2.0	61-62		
Steering Wheels	63-64		
Starlink Cross Taillights	65-66		
Heart Pilot Light	67-68		
Simple Pilot Light	69-70		
Fishbone Taillights	71		
Eagle Taillights	72		
X-men Taillights	73		
Rear Bumper Reflector Taillights	73-74		
Instrument Trim Panels	75		
View Mirror Protector Caps	75		
Turn Signal Stalk Covers	76		



TOMBO 360X

9.35-inch mirror with 360-degree camera



- 360-degree video rearview replacement mirror with touchscreen
- Auto sensing photo sensor for TFT screen brightness control
- Backpack and mount adaptor for mirror replacement
- The Rear AHD camera allows for backup view (auto trigger) and rearview (streaming view)
- TOMBO 360X records both channels front and rear camera simultaneously
- Hardwire power cable allows reverse trigger, last view setting memory, continuous power to 2nd Memory Drive (SSD) after ACC is off
- Built-in LED indicators for RYDEEN blind spot (BSD) kits (P/N EXT-026 connection cable sold separately)
- 10-inch mirror DVR with TFT screen
- Proximity sensor for parking monitoring



The TOMBO 360X is a universal touchscreen 10-inch frameless rearview mirror with built-in dash cam/HD monitor with 360 surround video recording features. Frameless Infinity Polished Edge Mirror Design for clean look, using optic bonding for monitor assembly with no air gap between the front glass and TFT screen for ultra-high brightness, and high color contrast viewing. Includes an auto sensing photo sensor for TFT screen brightness control to automatically set to maximum brightness during daytime and reduce brightness at night. Users can swipe left and right on the mirror to view the particular perspective they wish to see, TOMBO 360X can show a 360-degree view simultaneously on all multiple view selections for complete viewing coverage.

360VIEW

360° Rearview Mirror Touchscreen 4K HD Dash Camera



Unique 360-degree Touchscreen Video Playback

10-inch mirror DVR with TFT screen



Automatic Brightness Day / Night

Auto sensing photo sensor for TFT screen brightness control



Slim Design

Slim design for easy DIY installation



Front 360-degree Swivel Camera

The 360-degree front camera can swivel outward to use as a front facing dashcam



Unlike other mirrors that can capture and record DVR video, the RYDEEN 360VIEW DVR Mirror houses a 360-degree 4K High-Definition digital video camera. It provides a full view of both the inside and outside of the vehicle from the vantage point of the rearview mirror. The 360VIEW can show a 360-degree view simultaneously on all multiple view selections for complete viewing coverage. Mount on an interior rearview mirror with hook and loop straps and power cable using cigarette lighter plug for an easy Do-It-Yourself install.

360VIEW-K

360° Rearview Mirror Touchscreen 4K HD Dash Camera & AHD Backup Camera



360VIEW-SPL

360° Rearview Mirror Touchscreen 4K HD Dash Camera, AHD Backup Camera & Full Mirror Replacement Kit



RYDEEN SMART MIRROR COMPARISON

	PRO INSTALL (Recommended)		DIY Solution	
	TOMBO 360X	360VIEW-SPL	360VIEW-K	360VIEW
Specs and Features	TOMBO 360X	360VIEW-SPL	360VIEW-K	360VIEW
Screen Size	10-inch Digital Touchscreen	10-inch Digital Touchscreen	10-inch Digital Touchscreen	10-inch Digital Touchscreen
360 Camera Resolution	360 Panorama View 4K	360 Panorama View 4K	360 Panorama View 4K	360 Panorama View 4K
USB-C connection for External Memory Device.(SSD: 2TB MAX)	✓	✗	✗	✗
Proximity Sensor for Parking Monitoring without Physical Contact to Vehicle	✓	✗	✗	✗
G-sensor for SOS video recording	✓	✓	✓	✓
Backup Camera (Waterproof Digital Camera-- CM-AHD1)	✓	✓	✓	✗
Full Mirror Replacement Kit (BP1) Included	✓	✓	✗	✗
LED Indicators (Right & Left) for Optional Blind Spot Radar (Contact RYDEEN for more Details)	✓	✗	✗	✗
Hardwire Harness for Professional Install	✓	✓	✗	✗
256BG SD Card supported (32GB Included)	✓	✓	✓	✓

For questions, please feel free to contact us at 310-787-7880 or sales@rydeenmobile.com

PV8

8.2-inch HD Screen Digital Mirror

Two shapes to choose from. PV8 digital mirrors give you the super bright screen with high-resolution 1080P picture quality.



● PV8-A



● PV8-B

Operating System // Linux

Power Supply Current // 1.5A

Display Screen // LCD size (8.2 inch) 1280*288 high brightness screen

Capacitive Touch Screen // Capacitive touch resolution 1280*288

Backup Camera // 1080P, horizontal angle 110° 30FPS, F2.0 aperture, 2million pixels

Working Power Voltage // DC12V

Operating Temperature // -4°F to +158°F

PV8 (Cont'd)

HD video real-time viewing

Support dual 1080P HD input,
AHD signal transmission



Equipped with "SONY" sensor module

Dedicated rearview camera appearance
Metal material, physical waterproof



Wide dynamic image technology

Excellent wide dynamic image adjustment technology
Resulting better anti-glare effect



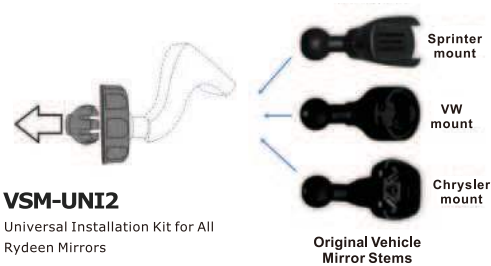
OED-01

OE Style Front DVR with AHD Video Out



- OE Style look for simple front facing DVR without TFT, WiFi only
- AHD video out,1080P
- 650mm cable with 5-pin female MINI-DIN
- Compatible with PV8 and 7-inch AHD monitor
- Supports 128GB microSD
- Phone App compatible through WiFi

Mirror Mounting Solutions



VSM-UNI2
Universal Installation Kit for All Rydeen Mirrors



VSM-UNI
Universal Mount (VSM-A with UV-Glue and D-Tab)



VSM-A
Universal Mount-Most Toyota, Nissan, Fold



VSM-AD
VSM-A for Vehicles with Tight Clearance



VSM-AJ
VSM-J Cam Lock Style Mount for High Roof (Long stem)



VSM-AN
Most Toyota, Most Nissan, and most Ford MAZDA-6 with wire cover (for M7020P)



VSM-AV
Compatible with Most Toyota, Nissan, Ford, GM



VSM-B
Windshield Mount Compatible with Most Toyota, Nissan



VSM-BMW
Compatible with 2001-2013 BMW Twist Style Mount



VSM-D
Fits Most 2007-2013 Hyundai and Kia



VSM-DN
MN mount for most Hyundai and Kia (MN mirror W/ball joint) (for M7020P)



VSM-DV
Fits most Hyundai and Kia (MV Mirror)



VSM-E
MOST VW, JETTA & AUDI



VSM-F
MN mount for Volkswagen -Passat /Jetta/Golf, Audi-A6 /A4 (MN mirror W/ ball joint) (for M7020P)



VSM-FC
Compatible with Fiat Vehicles



VSM-G
MN mount for Chrysler (MN mirror W/ ball joint) (for M7020P)



VSM-GS
Cam Lock Style Mount



VSM-H
Compatible with Mercedes Sprinter with Ball Mount



VSM-HS
Sprinter mount (MN mirror W/ ball joint) (for M7020P)



VSM-I
Windshield Mount Compatible with Volkswagen



VSM-J
Compatible with Chrysler, Dodge and Ford Transit



VSM-K
Smart Mount (MV Mirror with ball joint)



VSM-KS
Sprinter Mirror Mount



VSM-L
Fits Smart Car



VSM-M
Fits Smart Car



VSM-MBZ
Mercedes Benz Headliner Mount



VSM-VW
Compatible with Volkswagen



VSM-X
Compatible with 2014+BMW Mount for Windshield



MV-ADAPTOR
MV-mount adaptor (Backpack only for adapting factory stem to our Mirrors)



MN-ADAPTOR
MN-mount adaptor (Backpack only for adapting factory stem to our Mirrors)



VW-ADAPTOR
Fits Volkswagen vehicles to adapt Regular Mount



D-TABV1
D-Tab Metal for Windshield



MS1
Mirror Mount Spacer for Transit & Sprinter



MA1
Mirror Mount Adaptor for Transit & Sprinter

M7000 AHD Monitor

7-inch Stand Alone Backup AHD Monitor



Screen Size// 7-inch LCD

Display Aspect// 4:3 & 16:9

Video System// NTSC / PAL

Video Format // AHD / CVBS

Operation Temperature// -10°C to + 60°C (14°F to 149°F)

Storage Temperature // -30°C to + 80°C (-22°F to 176°F)

Video Input // 2 Sources Input (Aux input 1, Back-Up Camera Input 2)

Resolution// 1023*600 IPS

Color// RGB

Voltage Input// DC 9-16V

Brightness// 800cd/m²

BM500S Monitor

5-inch Stand-Alone Backup Monitor



Screen Size// 5-inch LCD

Display Aspect// 4:3 & 16:9

Video System// NTSC / PAL

Operation Temperature// -10°C to + 50°C (14°F to 122°F)

Storage Temperature // -30°C to + 70°C (-22°F to 158°F)

Video Input // 2 Sources Input (Video input 1, Back-Up Camera Input 2)

Resolution// 800 x 480 Pixels

Color// RGB

Voltage Input// DC 9-16V

Digital AHD Cameras



CM-AHD1000P/W

Sensor//	SONYIMX307-LQR	Power Voltage//	5V
Resolution//	1920*1080	Video Output Signal//	AHD
Frames//	30fps	Image//	Mirror Image(default)
Min Illumination//	< 0.1 Lux	Water Proof//	IP67
Viewing Angle//	D 140°, H 118°, V 61.5°(±5°)		
Camera Lens Construction//	2G+4P+1IR		



CM-SIDE AHD

Sensor//	1/4" G25-R CMOS	Power Voltage//	5V
Resolution//	1920*1080	Video Output Signal//	AHD
Frames//	30fps	Image//	Standard Image
Min Illumination//	< 0.1 Lux	Water Proof//	IP67
Viewing Angle//	H 150°, V 85° (±5°)		
Camera Lens Construction//	4G		

Sensor//	CMOS PC568	Power Voltage//	12V
Resolution//	1920*1080	Video Output Signal//	AHD
Frames//	30fps	Water Proof//	IP68
Image//	Standard Image (Default)		
Min Illumination//	0.1 Lux (day), 0 Lux (with IR)		
Viewing Angle//	D 155°, H 125°, V 85°(±5°)		
Camera Lens Construction//	5G+1IR		



CM-AHD1

Sensor//	SONYIMX307-LQR	Power Voltage//	5V
Resolution//	1945*1097	Video Output Signal//	AHD
Frames//	30fps	Image//	Standard Image
Min Illumination//	< 0.1 Lux	Water Proof//	IP67
Viewing Angle//	D 170°, H 130°, V 72°(±3°)		
Camera Lens Construction//	2G+2P+1IR		



CM-SIDE2 AHD

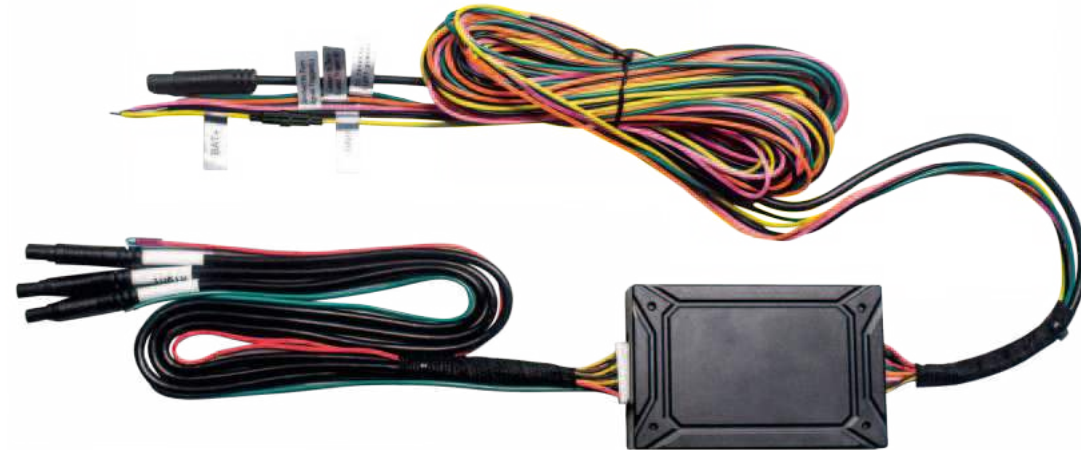


CM-V90 AHD

Sensor//	SONYIMX307-LQR	Power Voltage//	5V
Resolution//	1945*1097	Video Output Signal//	AHD
Frames//	30fps	Image//	Standard Image
Min Illumination//	< 0.1 Lux	Water Proof//	IP67
Viewing Angle//	D 170°, H 175°, V 94°(±5°)		
Camera Lens Construction//	6G+1IR		

CM-D700 AHD (AHD Digital Video Switcher)

AHD Digital Switcher and Side Camera Combo

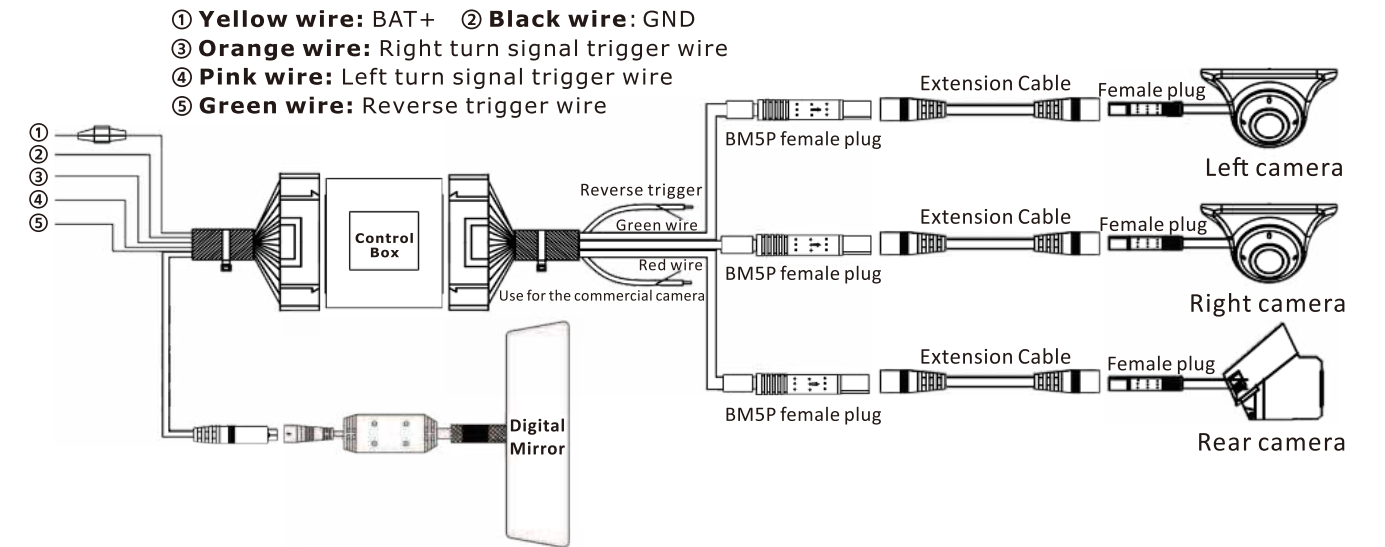


CM-AHD Switcher



CM-SIDE AHD

Wiring Diagram



- 3-IN-1-OUT video switcher supports 1080P AHD signal format.
- Camera inputs controlled by right / left / reverse triggers.
- The default display is the rear view, side cameras only work after being triggered.
- Switcher side cameras will not record under parking monitoring sleep mode.
- Supports both 5V rear camera and 12V commercial AHD camera which can work to record SOS videos.

Analog CVBS Cameras



CM-HD5



CM-HD4



CM-DUO3HD



CM-LED4



CM-MINy5



CM-MINy3



CM-LIP4



CM-CKH5



CM-D700



CM-SIDE



CM-R1000P/W



CM-APL5

Accessories



BL-01
Universal License Plate Bracket

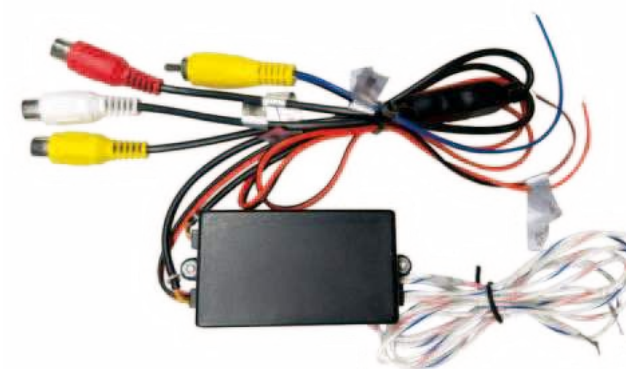


JB01
Jeep Wrangler Bracket



CM-SWITCHER

Analog CVBS Video Switcher



- Made for Rydeen Dual Blind Spot and Reverse Camera to In-dash Multimedia Units
- Multiple Cameras / Trigger Inputs
- 1 Video output and included 12V trigger output
- Works with OE or aftermarket radio (OE requires interface)
- Priority override for backup camera signal (Video 2)
- Provide reverse camera output trigger for aftermarket radios/screen

Digital Blind Spot Systems



BSS-ONE

- High Accuracy Digital Microwave Radar Technology
- Two LED indicators for visual warning
- Buzzer speaker for audio warning
- GPS Antenna Included for Speed Sensing
- No drilling or removal of bumper required
- Applicable for metal bumper vehicles (pickup trucks)
- Cross Traffic Alerts while Reversing
- Works On All Types Of Vehicles: Trucks, Cars, Vans,
- Commercial Vehicles

- Highly Accurate Digital Radar Technology (77 Ghz)
- 2-Way Sensing (ISO 17387 type 3) for Both Approaching and Passing Vehicles
- Two LED Indicators for Visual Warning
- Buzzer Speaker for Audible Warning
- Automatic Speed Detection and Improved Sensing Accuracy



BSS2LPB



BSS3

- High Accuracy Digital Microwave Radar Technology
- Two LED indicators for visual warning
- Adjustable buzzer speaker for audio warning
- GPS Antenna Included for Speed Sensing
- No drilling OR removal of bumper required
- Applicable for metal bumper vehicles
- Built-In Camera
- Cross Traffic Alerts while Reversing
- All Types Of Vehicles: (Trucks, Cars, Commercial Vehicles)

- High Accuracy Digital Microwave Radar Technology
- Two color options for LED indicators for visual alerts
- Buzzer speaker for audible alerts
- GPS Antenna Included for Speed Sensing
- No drilling required
- Not applicable with metal bumpers (See BSS2LPB)
- Cross Traffic Alerts while Reversing



BSS2LPBC

Digital Parking Sensors



PSR4000

- Direction/Distance LED indicator w/ built-in buzzer
- Hideaway adjustable speaker
- Highly sensitive digital sensors
- Instantly turns on with reverse gear selection
- Brake pedal for front activation (20second count down relay)
- Paintable sensors (painting mask/table included)
- Applicable in Metal or Plastic Bumpers
- Optional 12V Louder Speaker (BUZ004)

- Add on Digital Sensors for PSR4000 Kit (4 pieces)
- Short and Long Extentions Provided
- Holesaw Included (0.74 inch)
- Paintable sensors (painting mask/table included)
- 0,4,10 degree angle couplers for angled bumpers
- Applicable in Metal or Plastic Bumpers



PSK4



GPS4000

- Allows the front sensors to operate at speeds 5MPH or lower
- Automatic speed detection by GPS
- Adding a switch no longer needed and consumers will not have to worry about turning the system ON when pulling into a parking space in low speed
- Also avoids unnecessary alarms when driving on highways
- Simple 4 wire hook-up will require power, ground and brake wire connections
- An optional part for the PSR4000 digital parking sensor and PSK4 add-on kits when used as front sensors



BUZ04

- Increased sound output using higher voltage (12V) input.



SPK04

- Replacement Speaker



LED04

- Replacement LED Indicator

Digital Monitors (Page 01-08)



Digital AHD Cameras (Page 13-16)



CVBS Analog Cameras (Page 17-18)



AHD Digital Monitor (Page 11)



M7000AHD

Accessories (Page 17)



BL-01

JB01

CVBS Analog Monitor (Page 12)



BM500S

Front Facing DVR (Page 8)



OED-01

Mirror Monitor Mounts (Page 09-10)



Digital Blind Spot Radars (Page 19-20)



Digital Parking Sensors (Page 21-22)





8.8" HD LCD CarPlay Screen

High definition front display (instalment panel install type)

Hidden air vent design

No blockage of air-conditioned air
No blockage of view angle



Improvement in driving safety

Real-time display of various information
Real-time understanding of vehicle specific conditions



Wireless CarPlay/Android Auto Interfaces

Touchscreen control for
multiple information displays



Linux OS system

Stable and smooth operation



Suitable Model // (Product Number)	2021-2023 Model 3, 2019-2023+ Model Y (FDI-88A) 2016-2020 Model 3 (FDI-88i) 2024+ Model 3 Highland (FDI-88H)
Screen Size //	8.8"
Resolution //	1280*320
Operation System //	Linux system
Language //	English/Spanish/French/Japanese
Firmware Upgrade //	USB / OTA

Voice Control //	Apple "SIRI"
Touch Method //	Capacitive multi touch
Vehicle System //	Apple "carplay" / Android
Audio Output //	Small horn or original car audio connection
Video Input //	Support front video input
Package Size //	L10.63xW5.9xH4.53inch
Gross Weight //	2.87 lb



Intelligent Instrument Display 8.8

High definition front display (steering column install type)

		
Suitable Model (Product Number)	2024+ Model 3 Highland (FDS-88H)	2021-2023 Model 3, 2019-2023+ Model Y (FDS-88A) 2016-2020 Model 3 (FDS-88i)
Screen Size	8.8 inch	8.8 inch
Resolution	1280*320	1280*320
Operation System	Linux System	Linux System
Support Languages	English / Spanish / French / Japanese	English / Spanish / French / Japanese
Firmware Upgrade	USB / OTA	USB / OTA
Voice Control	Apple Siri	Apple Siri
Audio Output	The small speaker is connected to the original car via Bluetooth to realize the original car audio output.	The small speaker is connected to the original car via Bluetooth to realize the original car audio output.
Video Input	Support Front Video Input	Support Front Video Input
Touch Method	Capacitive Multi Touch	Capacitive Multi Touch
Control Method	Original Car Steering Wheel Buttons / Touch Screen	Original Car Steering Wheel Buttons / Touch Screen
Package Size	L10.43 x W7.48 x H4.13 inch	L10.24 x W8.66 x H5.12 inch
Gross Weight	2.43 lb	2.87 lb



Intelligent Instrument Display 6.2

6.2 inch HD screen

		
Suitable Model (Product Number)	2024+ Model 3 Highland (FDS-62H)	2021-2023 Model 3, 2019-2023+ Model Y (FDS-62A) 2016-2020 Model 3 (FDS-62i)
Screen Size	6.25 inch	6.25 inch
Resolution	1560*720	1280*320
Operation System	Linux System	Linux System
Support Languages	English / Spanish / French / Japanese	English / Spanish / French / Japanese
Firmware Upgrade	USB / OTA	USB / OTA
Voice Control	Apple Siri	Apple Siri
Audio Output	The small speaker is connected to the original car via Bluetooth to realize the original car audio output.	The small speaker is connected to the original car via Bluetooth to realize the original car audio output.
Video Input	Support Front Video Input	Support Front Video Input
Touch Method	Capacitive Multi Touch	Capacitive Multi Touch
Control Method	Original Car Steering Wheel Buttons / Touch Screen	Original Car Steering Wheel Buttons / Touch Screen
Package Size	L7.68 x W4.13 x H 7.48 inch	L7.68 x W4.13 x H 7.48 inch
Gross Weight	0.88 lb	0.88 lb

Intelligent Instrument Display 3.5 Mini

Light / Exquisite / Smooth



Rounded frameless display

3mm ultra-thin frame
800x640 resolution

Minimalist design

Day / night mode



Real-time information

Speed / Tire pressure / Door / Early warning

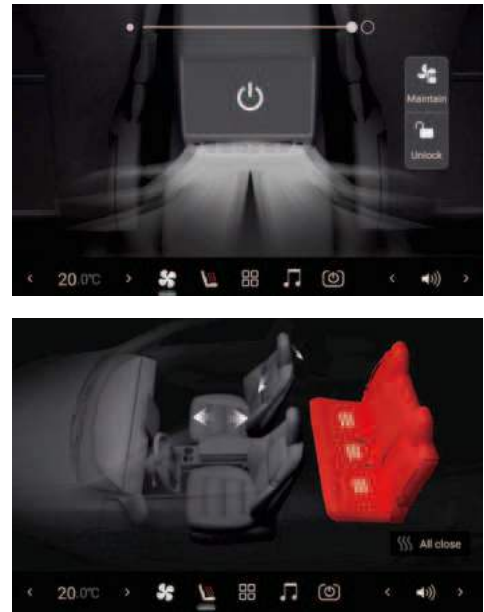


Suitable Model // (Product Number)	2021-2023 Model 3, 2019-2023+ Model Y (FDS-35A) 2016-2020 Model 3 (FDS-35i)
Screen Size //	3.54"
Resolution //	800*640
Operation System //	Linux system
Language //	English/Spanish/French/Japanese

Control Mode //	The original steering wheel buttons
Theme Selection //	Auto, day mode, night mode
Brightness Adjustment //	With the original car synchronization automatically changing
Package Size //	L5.32 x W5.32 x 3.54 inch
Gross Weight //	2.2 lb

Rear Console 7.0 Control System

Smart control / Entertainment system



Stable system

Android 13 system

Screen projection

Apple CarPlay

Online entertainment

Online movies/music

IPS HD screen

Full view touch screen
1280*800 resolution

Multi-functional control

Immersive center console display

100% original style

Unique design with patented technologies
UI uniformly designed to fit vehicle style



Suitable Model // 2016-2019 Model 3 (RDS-70A)
(ProductNumber) (LongRange) 2019-2023+ Model Y,
2020-2023 Model 3 (RDS-70B)
(Standard Range) 2022-2023+ Model Y (RDS-70C)

Function // Smart control / Entertainment system

screen Size // 7"

Resolution // 1280*800

System // Android 13

Running Memory // 4+32G

Package Size // L9.45xW9.06x5.9 inch

Gross Weight // 2.78 lb



Multi-Directional Screen Swivel Kit

Adjust the angle of the console screen



Suitable Model // (ProductNumber)	2016-2023 Model 3, 2019-2023+ Model Y (MSK-16) 2024+ Model 3 Highland (MSK-24H)
Function //	Angle adjustment
Core Components //	Bracket / Shell / Heatsink
Material //	High strength Aluminum / ABS
Installation Time //	20min
Package Size //	L9.25 x W2.95 x H9.84 inch
Gross Weight //	2.2 lb

Multi-Directional Screen Swivel Kit (Cont'd)



OEM Fitment Designed according to original vehicle specifications	Direct Replacement Easy to install
Surface Anti-Oxidation Treated Long-lasting wear resistant Not easily damaged or scratched	Multi-directional rotation Horizontal rotation 30° Vertically rotation 15°
High-strength aluminum bracket Beyond national-standard Aluminum alloy construction	

Tempered Glass Screen Protector

Display screen protector



Suitable Model // (ProductNumber)	2016-2023 Model 3, 2019-2023+ Model Y (TGS-16) 2024+ Model 3 Highland (TGS-24H)
Material //	Tempered glass
Optional Style //	Transparent HD anti-blue light Transparent frosted anti-fingerprint
Package Size //	L15.75 x W10.24 x H0.6 inch
Gross Weight //	1.1 lb

Auto Door Handles

Convenient door opening, personalized and practical



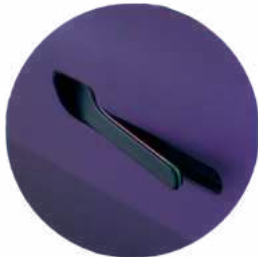
ABS material
Matte texture



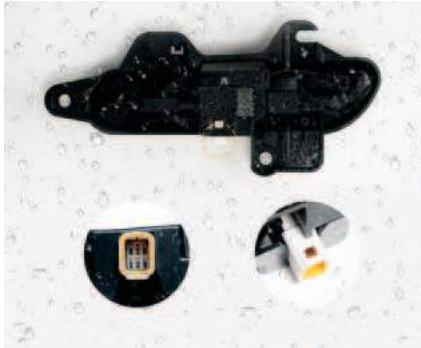
Round corner
Exquisite craft



- White (Single color-Wired)
2021-2023+ Model 3 (ADW-213)
2016-2020 Model 3 (ADW-163)
2019-2023+ Model Y (ADW-19Y)



- RGB (Multi color-wired)
2021-2023+ Model 3 (ADR-213)
2016-2020 Model 3 (ADR-163)
2019-2023+ Model Y (ADR-19Y)
RGB (Multi color-wireless)
2016-2020 Model 3 (WDH-163)
2021-2023+ Model 3 (WDH-213)
2019-2023+ Model Y (WDH-19Y)



Built-in waterproof rubber ring design
IP67 waterproof connector

Suitable Model //	2016-2023+ Model 3, 2019-2023+ Model Y
Function //	Auto pop up / Night lighting
Core Components //	Handle / Actuator / Control box
Optional Colors //	Single color version / Multi-color version
Voltage & Current //	12-16V / 0-350mA
Power Supply //	Small battery
Installation Time //	4h
Package Size //	L12.32×W11.1×H5.51 inch
Gross Weight //	5.84 lb



Soft Door Locking Mechanism



Intelligent suction

Half lock to full lock
Closing travel distance

Highly integrated

The line is integrated inside of door
No external connection

High resistance to interference

Passed EMC full function test
Stable operation

Quick response

Alpine microswitch
Multi-position contact induction
Self-suction time: 2S
Unlock response time :60ms

Security guard

Equipped with emergency cable
Respond to emergencies at any time

Mute motor

No loud noise
Japan NMB motor

Durable

Material: 100K cycles
Strict experimental testing
Working temperature: -40°F to +176°F

IP67 waterproof

Vehicle gauge design
Laser welded to protect against any
environment conditions

Suitable Model // 2016-2023+ Model 3,
(Product Number) 2019-2023+ Model Y (SCD-16)

Function // Auto suction / Elegant intelligence

Core Component // Electric suction lock

Voltage & Current // 9-16V / 3-5A

Rated Power // 27-80W

Installation Time // 1.5h

Package Size // L15.74 x W5.12 x H15.94 inch

Gross Weight // 6.83lb

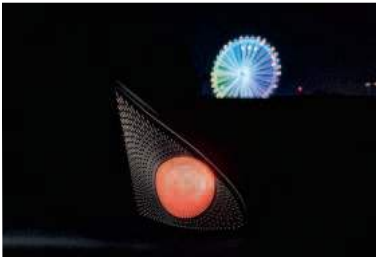
Laser Engraved Ambient Lights

Create atmosphere and upgrade lighting



45,000 luminous holes

Laser engraving technology
Light is emitted evenly through 0.2mm small holes
provides softer and comfortable feeling



Black Immersive Speakers

According to select music, lighting
intensity changes accordingly



Power consumption as low as 6 watts

Low power consumption, only 6 watts, conserve
energy consumption with built-in LED light source.

Suitable Model // Monochrome Version:
(Product Number) 2021-2023 Model 3 (LEA-213)
2016-2020 Model 3 (LEA-163)
2019-2023+ Model Y (LEA-19Y)
Streamer Version:
2021-2023 Model 3 (LES-213)
2019-2023+ Model Y (LES-19Y)
2023+ Model X (LES-23X)

Function // Atmosphere build / Light upgrading

Core Components // Console panel / Laser engraving mold

Rated power //	6W
Voltage & Current //	5V / 0.5A
Power Supply //	Connect to cigare lighter
Light Source //	LED
Installation Time //	2.5h
Package Size //	L35×W5.5×H20.67 inch
Gross Weight //	7.94 lb





Power Frunk

Double struts, one button lift



Titanium gray polished struts
High strength and abrasion-resistant
Automotive grade springs used
Soft and quiet opening and closing
Aluminium alloy material
Four layers of paint and powder coating



Waterproof and anti-drop-locking machine
Steel gear wheel / Fast and stable action
IP54 waterproof



Integration control box
Wind and rain resistance
IP68 automotive grade sealing design

Product Number	Suitable Tesla Model
PWF-163	2016-2020 Model 3
PWF-213	2021-2023 Model 3
PWF-24H	2024+ Model 3 Highland
PWF-19Y	2019-2023+ Model Y
PWF-23Y	2023+ Model Y (US Austin / DE Berlin)
PWF-16X	2016-2020 Model X
PWF-21X	2021-2023+ Model X
PWF-14S	2014-2015 Model S
PWF-16S	2016-2020 Model S
PWF-21S	2021-2023+ Model S

Function //	Electric control frunk
Core Components //	Locking mechanism / Struts / Control box
Voltage& Current //	12-16V / 5-15A
Power Range //	60-180W
Installation Time //	1h
Package Size //	L20.27xW4.21xH10.83 inch
Gross Weight //	6.61 lb

*Provide customized service (Including material/Color/Logo, etc.)

Soft Closing Frunk Mechanism

Product Features

- Soft close auto-locking, no need to forcefully close frunk close frunk.
- Multiple control methods, using APP and from inside the car.
- Motor and actuator integrated and sealed for stable operation, secure and reliable.

Product Specifactions

				
Suitable Model (Product Number)	2020 Model 3 (SCF-203)	2021-2022 Model 3 (SCF-213)	2019-2023 Model Y (SCF-19Y)	2024+ Model 3 Highland (SCF-24H)
Total Package Weight	1.43 lb	1.43 lb	1.23 lb	1.39 lb
Package Dimensions	9.84*7.56*2.6 inch	9.84*7.56*2.6 inch	9.84*7.56*2.6 inch	9.84*7.56*2.6 inch
Materials	304 Stainless Steel +Black RBT	304 Stainless Steel +Black RBT	304 Stainless Steel +Black RBT	304 Stainless Steel +Black RBT
Self-locking Force	300 N	300 N	300 N	300 N
Noise	≤ 55 dB	≤ 55 dB	≤ 55 dB	≤ 55 dB
Durability	≤ 50000 cycles (at room temperature)	≤ 50000 cycles (at room temperature)	≤ 50000 cycles (at room temperature)	≤ 50000 cycles (at room temperature)
Product Structure	Electromagnetic Lock + Electric Actuator	Electromagnetic Lock + Electric Actuator	Electromagnetic Lock + Electric Actuator	Electromagnetic Lock + Electric Actuator
Operating Voltage	9-16 V	9-16 V	9-16 V	9-16 V
Operating Current	≤ 9A	≤ 9A	≤ 9A	≤ 9A
Installation Method	Non-destructive Installation	Non-destructive Installation	Non-destructive Installation	Non-destructive Installation



PowerTrunk

Automatic operation with smart sensor



Titanium gray polished strut

Automotive grade springs used
Wear resistance increased by 60%
Highly uniform powder coating for enhanced corrosion & wear resistance



Aluminum alloy control box

Anti-static, Anti-jamming
Automotive-grade control system



Intelligent electric door motor

Powerful electric locking system
Automatic adsorption / Locking tailgate
Waterproof / Intelligent anti-pinch
Opening height memory / Lower noise



Suitable Model //	2016-2020 Model 3 (PWT-163)
(Product Number)	2014-2020 Model S (PWT-14S)
Function //	Electric trunk control
Core Components //	Lock / Strut / Control Box
Voltage & Current //	12V / 5-15A

Power Range //	60-180W
Installation Time //	1h
Package Size //	L20.27×W4.21×H10.83inch
Gross Weight //	8.82lb

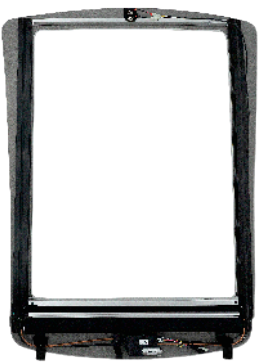
*Customized service is available (Including material/Color/Logo etc.)

Electric Sunshade Lite

First choice for summer shading



Front



Back

Suitable Model // (Product Number)	2019-2023+ Model Y (ESL-19Y)
Function //	Shading and light blocking UV protection
Material //	Surface fabric+PUR+Shading film+PUR+Back fabric
Noise Decibel //	< 50dba
Voltage & Current //	9V-15V / Working current<0.5A
Installation time //	15-20 min
Package Size //	L2.28xW46.85xH5.12inch
Gross Weight //	28.661lb

Durable motor
Motor runs 20,000 times
Motor noise < 50dba

Anti-pinch function
Stop at 120N resistance
Safeguard security

One button to open/close
Front and rear button control
Smart & electric / Minimalist design

Automotive grade fabric
Full shading 5-layer composite fabric
Not overheating in the hot sun

Shading and heat insulation
100% physical shading
Block the high-temperature radiation

Non-destructive installation
No need to remove the original roof
19 min to finish

Intelligent Sunroof 2.0

Light, thin and smart shade management

3 fuctions



Fully transparent state



Half transparent state



Non transparent state

Suitable Model // 2016-2023 Model 3 (ESI-163)
(ProductNumber) 2019-2023+ Model Y (ESI-19Y)

Function // Sunshade and heat insulation / UV protection

Material // PET film / High polymer LED

Core Components // Sunroof privacy sheet / Control box

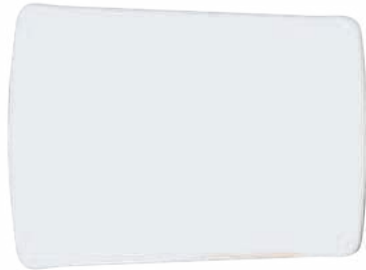
Power Range // <6W

Voltage & Current // 9V-20V DC / <0.5A(12V)

Installation Time // 2h

Package Size // D6.3 x H50.79 inch

Gross Weight // 9.74 lb



Intelligence Sunroof 2.0



Control box



Touch botton



Remote key



3 control modes

Button/Remote/Auto

Easy to install

1 hr installation time

99.2% shading ratio

Macromolecular material Safe & EP

Full automatic light

Improve light transmittance by 18%

Hyperbolic technology

Full fit to original vehicles

93.2% insulation efficiency

Efficient insulation ES & cooling



Ventilated Seats 2.0

Touch to switch ventilation / heating



Silent fan suction heat dissipation

Air suction and heat dissipation / Factory verified / Reliable quality



Original screen control

Heating and cooling with touchscreen control

Suitable Model //	2016-2023 Model 3 2019-2023+ Model Y
Function //	Seat heat dissipation and cooling
Core Components //	Leather / Silent fan
Voltage //	12.8V
Rated Power //	Single-seat 6.8W Double-seat 13.6W
Installation Time //	3 h
Package Size //	Leather L27.56 xW12.2 xH5.12 inch Fan L27.56 xW12.2 xH5.12 inch
Gross Weight //	Leather 10.87lb Fan 6lb



Electric Footrest

Ergonomic / Electric lift



Button to adjust the lift



Ergonomically designed foot rest

Exclusive for the passenger / Improves leg comfort
Motorless mechanism / Controlled by electric seat adjustment lever

Nappa leather combined with high strength material

Genuine leather / Easy to clean, waterproof material /
High-strength stamped metal frame



Suitable Model //	2019-2023+ Model Y
Leather Material //	Nappa leather
Weight Capacity //	10KG
Material //	Manganese steel
Color //	Black and White
Collapse Angle //	80°
Collapse Time //	8s
Leather Size //	L14.17×W7.87×H1.97 inch
Package Size //	L17.32×W8.07×H10.24 inch
Gross Weight //	9 lb



White (EFR-19WY)



Black (EFR-19BY)

Rear Seat Folding Table

Upgrade for better experience



Suitable Model // 2016-2023 Model 3,
(Product Number) 2019-2023+ Model Y (RFT-16)

Function // Placing articles / Mobile phone charging

Material // PP + Zinc alloy

Color // Black

Charging Power // Wireless charging 15 W

Power Supply // Cigarette lighter adapter

Largest Bearing // 5KG

Installation Time // 40min

Package Size // L23.43xW7.87xH27.56 inch

Gross Weight // 16.1 lb



Portable Refrigerator / Freezer for Trunk

Space efficient design and extra large capacity



Suitable Model // 2016-2023+ Model 3 (RTR-203)
(Product Number) 2019-2023+ Model Y (RTR-35Y)

Temp Setting Range // -7.6°F to +50°F

Bluetooth Response Time // <5s

Package Size // L16.34×W6.89×H12 inch

Voltage DC 12 V // L-On/Off (11.4±0.3 / 10.1±0.3) M-On/Off (12.2±0.3 / 11.4±0.3)
Cut on / Cut off H-On/Off (12.6±0.3 / 11.8±0.3)

Voltage DC 24 V // L-On/Off (23.0±0.3 / 21.5±0.3) M-On/Off (25.3±0.3 / 24.1±0.3)
Cut on / Cut off H-On/Off (26.2±0.3 / 24.6±0.3)

Capacity // 2016-2023+ Model 3: 20L
2019-2023+ Model Y: 35L

Bluetooth Response Distance // Within 60 inch

Gross Weight // 20L: 22.56 lb 35L: 33.73 lb

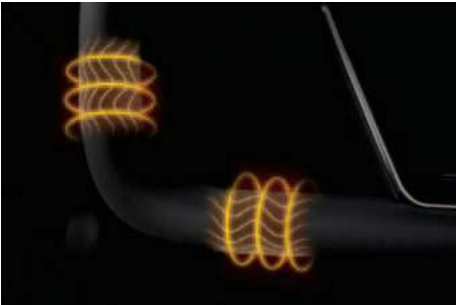


Steering Wheel 2.0

Model X/S style steering wheel, designed to fit Model 3/Y with magnesium alloy frame

Vehicle-grade Heating Element

Retains the original steering heating feature.
Heat to 90F° in one minute.



Integrated Bracket

Magnesium alloy frame,
specifically designed for light weight and comfort



Original Style Design

Same style as Model X/S,
designed to fit your Model 3/Y with
heating conducting magnesium alloy frame



Nappa leather Material

Better grip, easy to control



For Model 3/Y
Steering Wheel 2.0

Model X/S style replacement
yoke steering wheel designed
to fit your Model 3/Y with
heating feature.

Suitable Model //	2016-2023 Model 3, 2019-2023+ Model Y
Function //	Improve vision / Upgrades interior
Core Components //	Chassis / Outer leather packing
Material //	Nappa leather / Magnesium-zinc alloy
Color //(Product Number)	Black (YSW-20B) White (YSW-20W)
Installation Time //	1h
Package Size //	L16.34 x W11.81 x H6.3 inch
Gross Weight //	5.51 lb



Steering Wheels

Replacement yoke steering wheels with variety of options for your style and comfort



High Quality Materials

Clear texture / Anti-corrosion / Wear-resistant



Heating Copper Element Covered Evenly

Built-in copper wire heating elements covering the steering wheel evenly, conducting heat to 95° F in one minute in cold climate, keeping your hands warm....

Suitable Model // 2016-2023 Model 3, 2019-2023+ Model Y, 2024+ Model 3 Highland

Function // Improve vision / Upgrades interior

Core Components // Chassis / Outer leather packing

Rated Power // 3W

Installation Time // 1h

Voltage // 12V / 0.3A

Package Size // L16.14 x W6.89 x H12 inch

Gross Weight // 5.3 lb

*Optional customized service (Carbon fiber patch/Leather/Color/Suture color, etc)



Comparison before and after installation

Break the visual barrier, dynamic and stylish steering wheel

Optional Customization

(Matte/Glossy)
Carbon fiber patches

Top surface carbon fiber patches for Model 3 & Y steering wheel



(Matte finish only)

Top surface carbon fiber patches

(Nappa / Alcantara) Leather

(Customized colors optional)



Nappa Leather-Black
2019-2023+ Model Y, 2016-2023 Model 3 (YSW-16NB)



Nappa Leather-White
2019-2023+ Model Y, 2016-2023 Model 3 (YSW-16NW)



Nappa Perforated Leather-Black
2019-2023+ Model Y, 2016-2023 Model 3 (YSW-16PB)



Nappa Perforated Leather-White
2019-2023+ Model Y, 2016-2023 Model 3 (YSW-16PW)



Nappa Leather with side carbon fiber-Black
2019-2023+ Model Y, 2016-2023 Model 3 (YSW-16SB)



Nappa Leather with side carbon fiber-White
2019-2023+ Model Y, 2016-2023 Model 3 (YSW-16SW)



Steering wheel for Model 3 Highland White (YSW-24WH)
Black (YSW-24BH)



Top surface carbon fiber decorative patch for model 3/Y steering wheels. Matte finish only.
Replaced Style: 2016-2023 Model 3, 2019-2023+ Model Y (CFR-16)
Stick Style: 2024+ Model 3 Highland (CFS-243)



Starlink Cross Taillights

Highly sophisticated design, attracts attention...



Rear console independent control system

Smoked lampshades
Glossy black trim strip



High-quality LED lamp beads

LED bright light beads,
the lifespan more than 5 years



Low overall power consumption

Conserves battery life, power saving

Suitable Model //	2016-2023 Model 3 (SCT-163) (Product Number)	2019-2023+ Model Y (SCT-19Y)
Function //	Light efficiency & Safety upgrade	
Core Components //	Lighting component / Lamp housing	
Material //	Bottom ABS+Surface PAMA	
Color //	Black	
Power //	Driving 6.6W / Braking 20.2W Steering 8W / Reverse 4.6W / Fog lights 2.56W	
Power Supply //	Plug original car tail lights	
Installation Time //	90min	
IPackage Size //	L38.78×W14.76×H7.87 inch	
Gross Weight //	12.46 lb	

Heart Pilot Light

Adding safety and passion to your ride...

Suitable Model // (Product Number)	2021-2023+Model Y (PTL-21HY)
Bulbs //	Red: 129 pcs / Yellow:129 pcs
Core Components //	Bulb/Circuit board / Light shell
Material //	Base ABS+ Surface PC
Light Color //	Red / Yellow
Power //	0.2 W / Pcs
Power Supply //	Original taillight adapter
Brightness //	Red: 2-3 LM / Yellow: 7-8 LM
Package Size //	L16.93 x W7.48 x H10 inch
Gross Weight //	1.65 lb



Headlight On D/R
Low intensity



Braking
High intensity



Turn left
Heart beating



Turn right
Heart beating



Emergency flashers
Heart moved

Simple Pilot Light

Adding safety and sophisticated design to your ride...



Suitable Model // (Product Number)	2021-2023+ Model Y (PTL-21SY)
Fuction //	Safety warning / Appearance decoration
Core Components //	Light emitting components / Light shell
Material //	Base ABS+ Surface PC
Color //	Red
Single Side Lamp Power //	≤10W
Power Supply //	Original taillight adapter
Installation Time //	20min
Package Size //	L16.93xW7.48xH10 inch
Gross Weight //	1.65 lb



Fishbone Taillights



Eagle Taillights

Suitable Model // (Product Number)	EagleEye: 2016-2023 Model 3, 2019-2023+ Model Y (EGT-16) Fishbone: 2016-2023 Model 3, 2019-2023+ Model Y (FBT-16)
Function //	Lighting upgrade
Core Components //	Light emitting component / Light shell
Material //	Boom ABS + Surface PMMA
Color //	Black
Singel Side Power //	Eagle Eyes≤10W / Fishbone≤8.6W
Power Supply //	Original tail light adapter
Installation Time //	60min
Package Size //	Eagle: L20.87×W12.8×H9.45 inch Fishbone: L22.24×W12.8×H9.45 inch
Gross Weight //	Eagle Eyes 13.23lb / Fishbone 7.5lb



X-men Taillights



Suitable Model // (Product Number)	2016-2023 Model 3, 2019-2023+ Model Y (XMT-16)
Single Side Power //	12V-16V
Function //	Driving Light, Running Light, Brake Light, Reverse Light, Sequential Turn Signal Light
Installation Time //	1h
Gross Weight //	13.23lb
Package Size //	L20.87×W12.8×H9.45 inch
Power Supply//	Original car signal light source transfer
Core Components //	ABS lampshade+LED light source+wiring harness

Rear Bumper Reflector Taillights



Suitable Model // (Product Number)	2016-2023 Model 3 (BRT-163) 2019-2023+ Model Y (BRT-19Y)
Single Side Power //	12V-16V
Installation Time //	1h
Gross Weight //	0.88lb
Package Size //	L13.78×W66.89×H2.76 inch
Power Supply //	Original car signal light source transfer
Core Components //	ABS lampshade+LED light source+wiring harness



Instrument Trim Panels (3pcs)



- Replaced Style-Matte
2020-2023 Model Y,
2020-2023 Model 3 (TPR-20M)
2024+ Model 3 Highland (TPR-24MH)
2024+ Model Y (TPR-24MY)
2020-2023 Model Y (US Austin /
DE Berlin) (TPR-23MY)
- Replaced Style-Glossy
2020-2023 Model Y,
2020-2023 Model 3 (TPR-20G)
2024+ Model 3 Highland (TPR-24GH)
2024+ Model Y (TPR-24GY)
2020-2023 Model Y (US Austin /
DE Berlin) (TPR-23GY)
- Stick Style-Matte
2020-2023 Model Y,
2020-2023 Model 3 (TPS-20M)
2024+ Model Y (TPS-24MY)
- Stick Style-Glossy
2020-2023 Model Y,
2020-2023 Model 3 (TPS-20G)
2024+ Model Y (TPS-24GY)

Suitable Model // 2020-2023 Model 3, 2020-2023+ Model Y,
2024+ Model 3 Highland,
2020-2023 Model Y (US Austin / DE Berlin)

Material //	Carbon fiber
Product Spec //	3pcs
Optional Sytle //	Replaced Style-Matte, Replaced Style-Glossy, Stick Style-Matte, Stick Style-Glossy
Package Size //	L44.88×W13.19×H4.33inch
Gross Weight //	3.86lb

View Mirror Protector Caps

Suitable Model // 2016-2023 Model 3
2019-2023+ Model Y

Material // Carbon fiber

Product Spec // 2pcs

Package Size // L5.9×W16.14×H17.72inch

Gross Weight // 1.99lb



- Glossy
2019-2023+ Model Y (SVM-19GY)
2016-2023 Model 3 (SVM-16G3)
- Matte
2019-2023+ Model Y (SVM-19MY)
2016-2023 Model 3 (SVM-16M3)

Turn Signal Stalk Covers



- Glossy-Red (TSC-16GR)



- Glossy-Black (TSC-16GB)

Suitable Model // 2016-2023 Model 3
2019-2023+ Model Y

Material // Carbon Fiber / Glass Fiber / Eco-friendly Velvet

Product Spec // 2pcs

Optional Sytle // Glossy-Red / Glossy-Black

Package Size // L5.9×W4.72×H1.57inch

Gross Weight // 0.24 lb

Spoilers



- Small-Matte
2019-2023+ Model Y (SPS-19MY)
2016-2023 Model 3 (SPS-16M3)
2024+ Model 3 Highland (SPS-24MH)
- Small-Glossy
2019-2023+ Model Y (SPS-19GY)
2016-2023 Model 3 (SPS-16G3)
2024+ Model 3 Highland (SPS-24GH)

- Big-Matte
2019-2023+ Model Y (SPB-19MY)
2016-2023 Model 3 (SPB-16M3)
- Big-Glossy
2019-2023+ Model Y (SPB-19GY)
2016-2023 Model 3 (SPB-16G3)

Suitable Model // 2016-2023 Model 3, 2019-2023+ Model Y
2024+ Model 3 Highland

Material // 100% dry carbon fiber

Product Spec // 1pcs

Optional Sytle // Small-Glossy, Small-Matte
Big-Glossy, Big-Matte

Package Size // Small: L51.19 x W12.6 x H2.36 inch
Big: L57 x W18.11 x H2.36 inch

Gross Weight // Small: 2.87 lb
Big: 6.61 lb

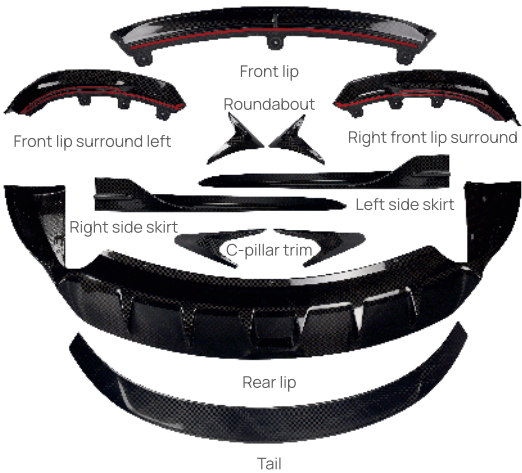
Carbon Fiber Body Kits

Upgrade appearance / Enhanced stability

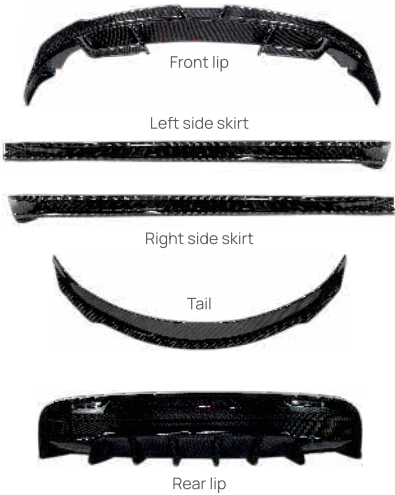
Thermoseted by carbonized acrylic fiber poxy resin
typical composite material come with light density,
high strength



Suitable Model // (Product Number)	2016-2023 Model 3 (CFB-163)
Function //	The appearance of upgrade / Increasing downforce
Material //	100% dry carbon fiber
Optional Style //	3K / 6K / 12K / 24K (customizable)
Optional Texture //	Matte / Glossy
Optional Appearance //	With / Without red line
Installation Time //	1.5h
Package Size(Without Spoiler) //	L72.83×W30.7×H8.66 inch / 33lb
Package Size(Rear Spoiler) //	L57×W18.11×H2.95 inch / 6.61lb
Package Size(P Rear Spoiler) //	L49.21×W11×H1.97inch / 6.61lb



Suitable Model // (Product Number)	2019-2023+ Model Y (CFB-19Y)
Function //	The appearance of upgrade / Increasing downforce / Stability
Material //	100% dry carbon fiber
Optional Style //	3K / 6K / 12K / 24K (customizable)
Optional Texture //	Matte / Glossy
Optional Appearance //	3K twill gloss
Installation Time //	1.5h
Package Size(without Spoiler) //	L82.68×W27.56×H19.69 inch / 6.61lb
Dry Carbon Spoiler Package Dimensions //	L57×W18.11×H2.95 inch / 6.61lb
Package Size(P Rear Spoiler) //	L49.21×W11×H1.97 inch / 6.61lb





The Ultimate Defense for Tesla Model 3 and Model Y

Unmatched Protection - USP-21 skid plate is engineered to fortify your Tesla's underbody against impact, debris, and unexpected road hazards. Crafted with state-of-the-art ArmorLite materials, it offers unparalleled defense without compromising on weight or performance.

With rigorous testing, including tensile strength, ensuring reliability and resilience under extreme conditions. USP-21 is engineered to enhance your vehicle's protection without voiding its warranty.

Under Body Protection Panels for Model 3/Y

USP-16F (Front), USP-16R (Rear)



Innovative ArmorLite Material

Crafted with cutting-edge materials, striking the ideal balance between strength and weight.



Built to Last

Endure the toughest conditions, providing peace of mind on every drive.



Lightweight Durability

Experience the perfect blend of strength and lightweight design. It is as tough as metal yet as light as the original plastic board



Seamless Integration

Designed for a hassle-free installation. Enhance protection without sacrificing the aerodynamics or aesthetics of Tesla Model 3 or Model Y

RYDEEN[®]