II. Risk Analysis

Risk ID	Risk name	Associated system assets	Risk score
R1	Jamming ultrasonic sensors	Ultrasonic ranging devices	32
R2	Spoofing ultrasound sensors	Ultrasonic ranging devices	32
R3	Acoustic quieting on ultrasound sensors	Ultrasonic ranging devices	12
R4	Jamming radar	Delphi ESR 24V	32
R5	Spoofing radar	Delphi ESR 24V	32
R6	Blinding cameras	Mako G, Sekonix cameras	48
R7	Confusing car controls using camera inputs	Mako G, Sekonix cameras	32
R8	Relay attack on LiDAR	VLP32 LiDAR	16
R9	Spoofing LiDAR	VLP32 LiDAR	14
R10	Code modification	ECU, Spectra computer	17
R11	Code injection	ECU, Spectra computer	18
R12	Packet sniffing	Network components	24
R13	Packet fuzzing	Network components	15
R14	Inject CAN messages	Controller area network	12
R15	Eavesdropping CAN messages	Controller area network	15
R16	GPS jamming and spoofing	PwrPak7 GPS	32
R17	EMP attack	All parts	12
R18	Malware injection	Spectra computer	36
R19	Manipulate map data	Map storage	12
R20	Extract map data	Map storage	12
R21	Delete map data	Map storage	12
R22	Disable actuation module	PACMod v3.0	14
R23	Induce bad analysis	Spectra computer	14