

DAPC



OVERVIEW



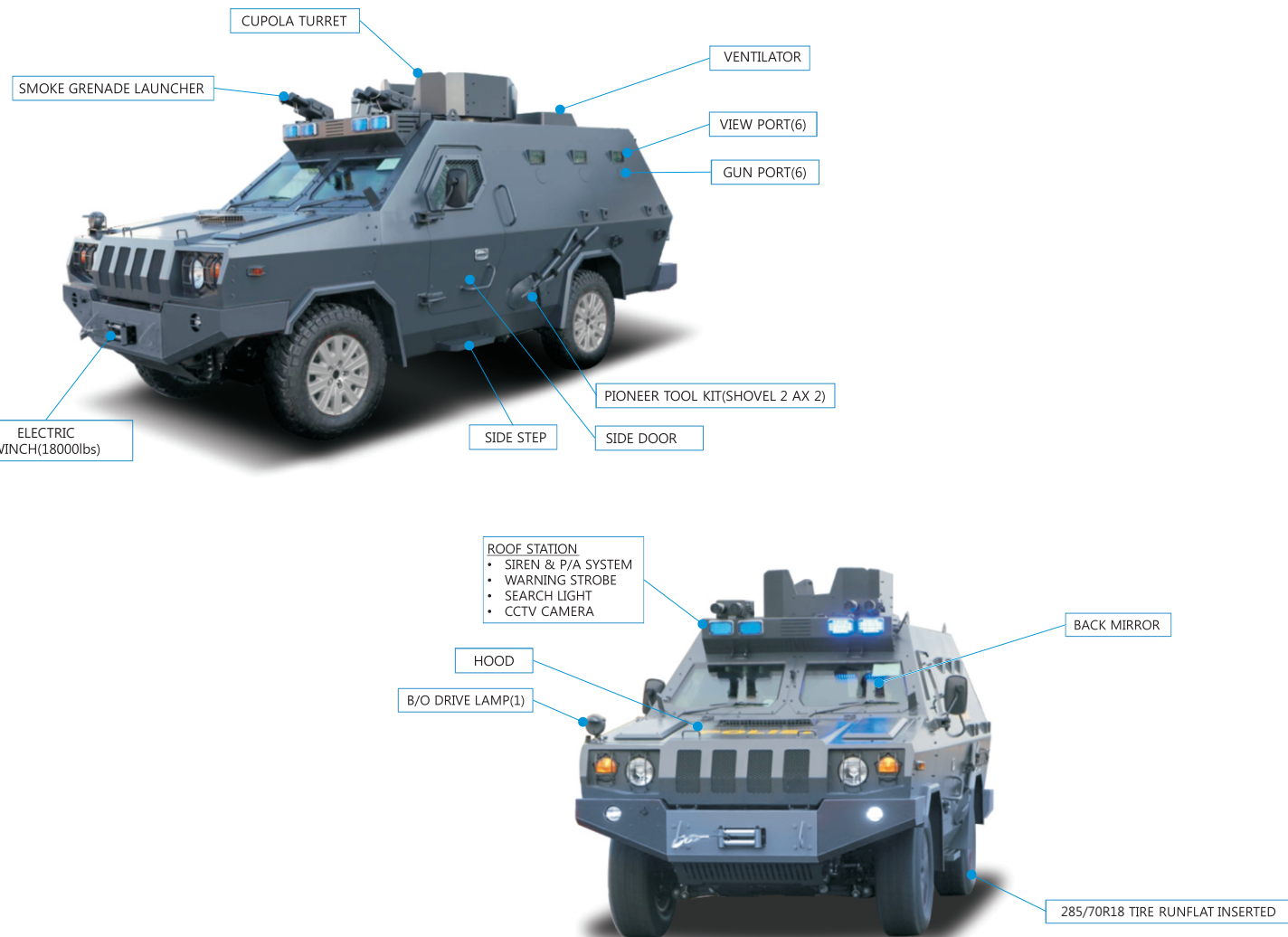
- ◆ **Armor DAC** is a multi-purpose protective vehicle which can respond to wide variety of needs such as security patrols, public order, counter-terrorism, and escorting.
- ◆ On/off road mobility in a dynamic and compact vehicle. Designed for maximum agility, high protection and optimised payload capacity.
- ◆ We've developed and produced the best designed protection vehicle based on **Toyota Land cruise 4X4** platform, due to the fact it is facile to purchase maintenance parts, training operator and has low maintenance costs. furthermore it's easy to drive and has a excellent ride quality.
- ◆ High-torque **V8 DOHC** twin turbo common rail diesel engine
- ◆ Automatic 6-speed transmission
- ◆ Ladder type frame based chassis
- ◆ The coil spring type double-wishbone independent suspension is used for the front, and the 4-link coil spring with lateral rod type suspension is used for the rear. (specially reinforced front and rear spring)
- ◆ Full-time 4X4 all wheel drive with center differential lock
- ◆ All terrain **285/70R18** wide tire (run-flat inserted)

ARMORING INFORMATION

- ◆ The passenger compartment provides ballistic protection to 7.62x51mm NATO Ball (NIJ Level III) and AK-47 7.62x39mm soft core, in order to increase the body protective performance, installing additional protective plate made of UHMWPE (Dyneema ®) inner sidewall, and it has ballistic protection up to 5.56x45mm M193 (STANAG 4569 Annex A Level 1) bullet.
- ◆ In addition, we applied armor steel (HHA) to a engine room hood and a fender to have NIJ Level II protection level.
- ◆ Under the floor we added prefabricated plate (high strength steel material) to protect 8-10 crews from lower explosion.
- ◆ For the windshield, side and rear door we installed transparent glass (tinted) with protection NIJ Level III.
- ◆ All glazings are provided with removable window grilles. The front screen has a fold-up grille to secure a clear view while driving.
- ◆ All 5 wheels are fitted with a Hutchinson 50 km runflat system.
- ◆ To the side, we prepared 6 gun ports and view ports to make the crew easy to set defensive stance.
- ◆ There is hatch and slew turret system with protective plate on the roof (i.e. cupola), so that crews may manage different kinds of firearms.
- ◆ Grenade launcher is installed on roof and for the reload, hatch has been installed.



MAJOR COMPONENTS-EXTERIOR



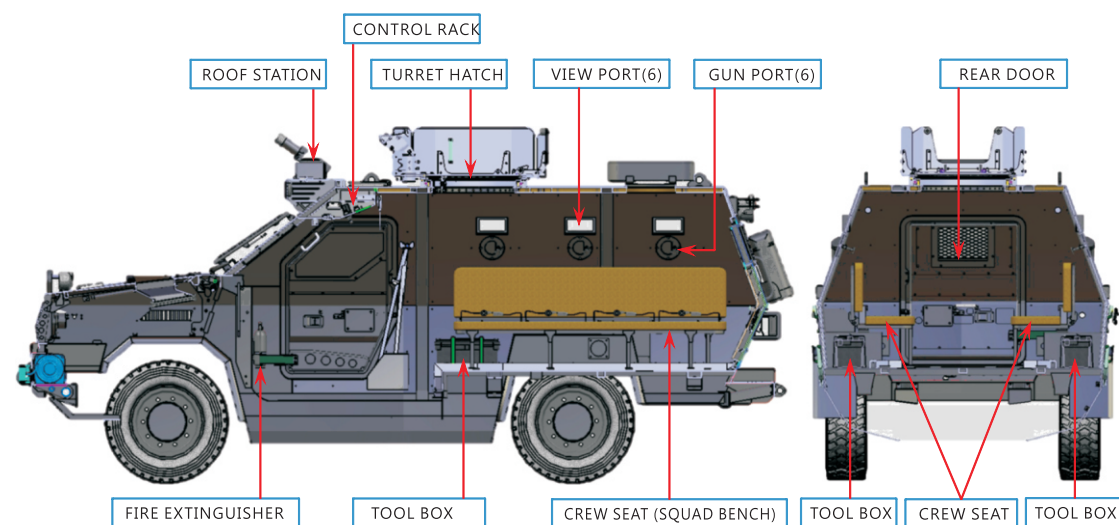
TECHNICAL DATA

CHASSIS-FRAME

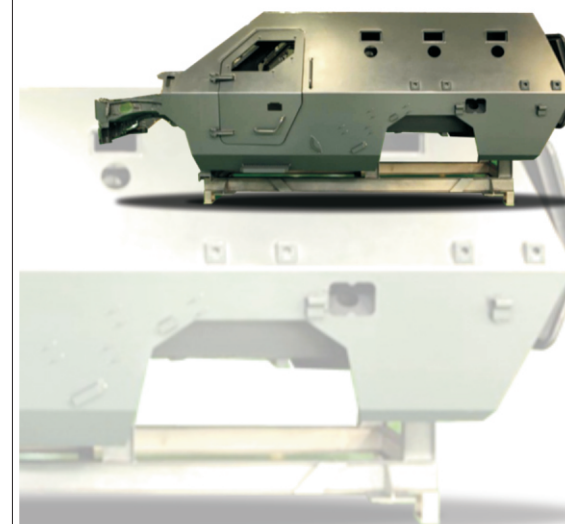


• Base Chassis	Toyota Land Cruiser / Ladder type frame
• Engine	V8 DOHC Twin Turbo common rail diesel Total Displacement 4461 cc Emission Standard EURO 4 Rated Output 268 hp at 3600 rpm Rated Torque 650 Nm at 1600 – 2600 rpm
• Transmission	Automatic 6-speed
• Drive	Full time all wheel drive 4x4
• Suspension	Front coil spring double wishbone independent Rear coil spring 4-link lateral rod
• Steering	RHD / Hydraulic power assist
• Electrical	12V Power supply
• Tire	All terrain 285/70R18 Runflat inserted
• Curb Weight	4100 kg
• Performance	Max Speed 150 km Fuel Tank Capacity 93 L Cruising Range 700 km Wade Depth 750 mm Vertical Step Height 300 mm Turning Radius 5.9 m

MAJOR COMPONENTS-INTERIOR



BODY-ASSY



Protection	Engine Room : STANAG 4569 LEVEL 3 (.357 magnum) Hull Skin : STANAG 4569 LEVEL 3 (7.62x51mm NATO Ball) Hull Skin Addition (5.56x45mm M16) Hull Underbody Under Shield : STANAG 4569 LEVEL 2a Cupola (Turret) : STANAG 4569 LEVEL 3 Tire Runflat 50 km Glass : STANAG 4569 LEVEL 3 (7.62x51mm NATO Ball) Glass Guard Grill
Body Work	Crew 2 + 6 or 2 + 8 Door 3 (Side 2 / Rear 1) OEM Air Conditioner Ventilator 1 Hatch 2 (Small Size) / Locking Fuel Cap Black Interior Trim
Armament	View Port 6 / Gun Port 6 Cupola (Turret) 1 Grenade Launcher 2 (6 Nozzle) Search Light 1 CCTV Camera 1 (Recorder include) Electric Winch 1 (6.8 ton) Ladder 8 m

□ All ballistic materials are independently tested.

SPECIFICATION

RUN-FLAT SYSTEM



Speed and distance standard
50 km (min.) at 50 km/h

Approval TÜV (FTP92/1655/01/08)

Material Lightweight, polyester elastomer

Maker RODGARD (a division of hutchinson Industries)

VENTILATOR



Input voltage DC 12 V

Rated load 2.7 A (fan motor 2.0 A + geared motor 0.7 A)

Insulation resistance 500 V Megger 1MΩ

Voltage drop 0.25 V below

Operating force 1.5 ~ 4.5 kgf.cm

Operating Temperature Range -30°C ~ 80°C

ELECTRIC WINCH



Rated line pull 6,804 kg (15,000 lb) Single line

Motor 4,180 w / 5.6 hp 12V

Gear ratio 3-Stage planetary 315:1

Clutch (free spooling) Rotating ring gear

Brake (outside the drum) Automatic, Full load CBS (Cone brake structure)

Winch construction Aluminum die cast housings with steel drum

Drum size 89 x 206 mm

Control Waterproof remote with thermometric indicator

Rope type 6 x 29 – IWR

Rope size 11.1 mm X 27 m

CCTV CAMERA



Image pick-up device 1/4" super HAD CCD

Total pixels 795(H) x 596(V) / Effective pixels 752(H) x 582(V)

Scanning system 2:1 interlace, 625 lines / 50 fields / 25 frames

Scanning frequency Horizontal : 15.625 KHz / Vertical : 50 Hz

Horizontal resolution Color(wide) : 520 TV lines(Min), B/W(wide) : 570 TV lines(Min)

Video output CVBS : 1.0 Vp-p / 75 Ω

Zoom ratio 38mm f2.8 ~ 10x, f3.8

Min focus distance 1.0 m

Angle field of view (Appr.) Horizontal 51.2°(wide) to 5.58°(tele) / Vertical 39.3°(wide) to 4.27°(tele)

Digital Zoom built-in 2x ~ 10x (total 100x zoom)

S/N ratio (Y signal) 50 dB (AGC off, weight on)

Min illumination Color mode : 0.7 Lux at f2.8 (50 IRE)
B/W mode : 0.02 Lux at f2.8 (50 IRE)

White balance ATW / AWC / Manual selectable (1800°K ~ 10500°K)

Electronic shutter speed Auto / Manual selectable (1/50 ~ 1/120000)

Rotation angle Pan : 360° endless / Tilt : 0° ~ 180° (digital flip)

Rotation speed Manual : 100°/sec, Turbo : 180°/sec, Preset : 360°/sec

Flip Digital flip support

Protocols PELCO-D, P, WONWOO

Communication RS-485

Power consumption DC 12V / 600 mA, AC 24V / 550 mA

Operating Environment Temperature -20°C ~ 50°C, Humidity 20% ~ 75% RH

P/A SYSTEM AMPLIFIER



Input voltage DC 12 V

Maximum output 200 W

Control panel and AMP Separation type

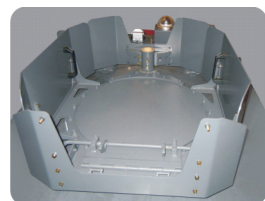
Control method Digital CPU IC circuit control method

Display Output LED level meter display

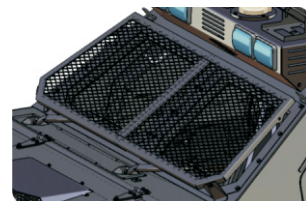
DRIVER HATCH



TURRET SYSTEM



WINDSHIELD GUARD



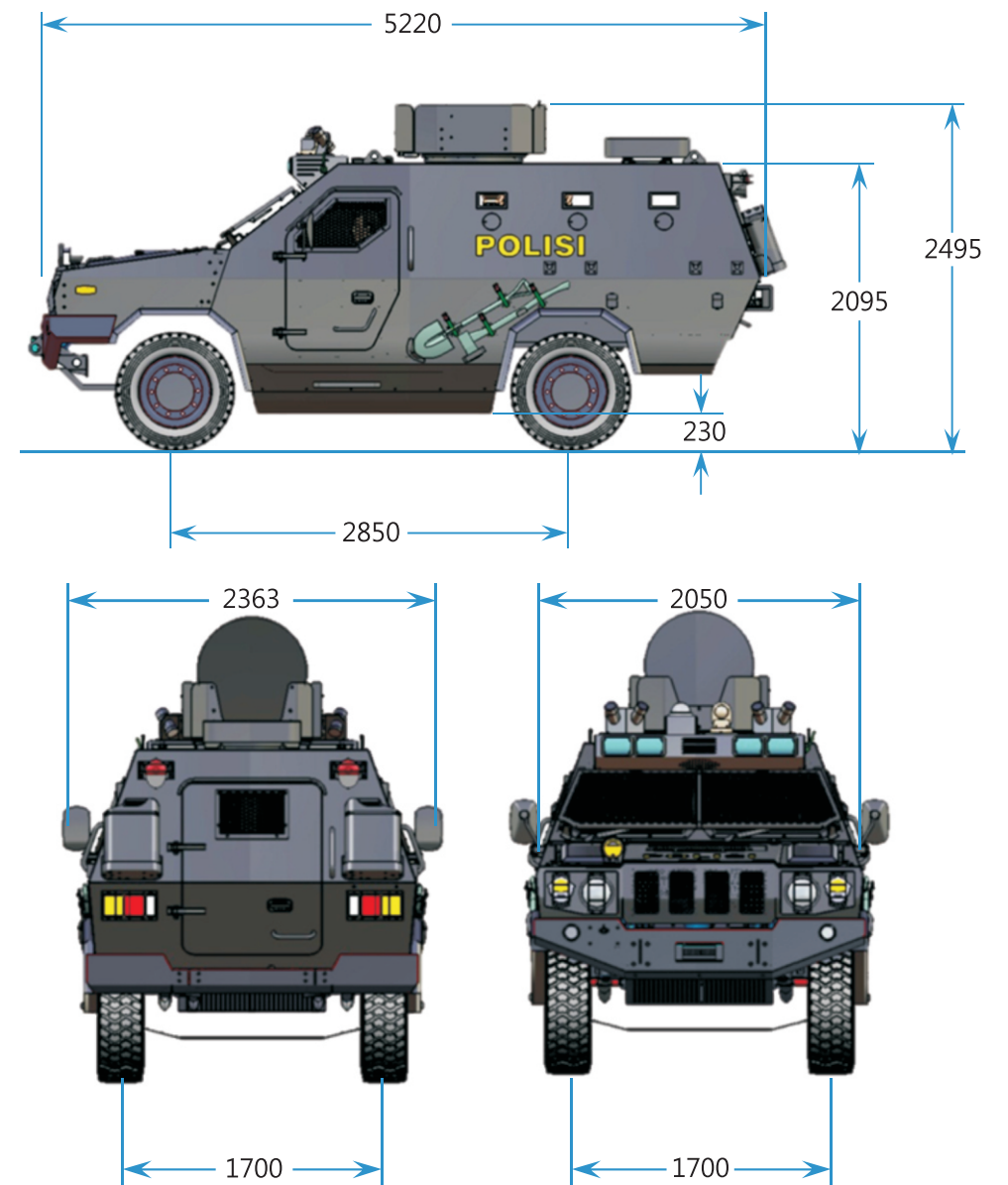
GUN PORT MECHANISM



GRENADE LAUNCHER



DIMENSIONS



• Exterior	Length (mm)	5220	• Approach Angle (°)	30	
	Width (mm)	Body 2050 / Back Mirror 2363		• Departure Angle (°)	24
	Height (mm)	Hull roof 2095 / Cupola 2495			• Front Overhang (mm)
• Wheel Base (mm)	2850	• Rear Overhang (mm)	1417		
• Track Width (mm)	1700 (OEM 1640)	• Cupola Slew Radius (mm)	600		
• Ground Clearance (mm)	230				