



DEVTAC
RONIN
BALLISTIC HELMET



GENERAL SPECIFICATION AND CONTENTS

- Ballistic Kevlar, Full 80% Protection
- Weight 2.2 kg - 2.7 kg
- 7mm ballistic Kevlar shell frames, lightweight with vents
- Micro jet fan defogging system built in the lens frames
- ANSI 2871 lenses
- Slide-in lenses for quick replacement
- Nylon 3D air mesh linings for comfort and breathability
- Flextech foam cushion for shock absorption. Made in USA.
- Quick release magnetized cheek plates for better cheek weld
- Two main parts - the mask and the back helmet
- The back helmet has a forehead strap that serves as a harness for blunt force
- The mask is attached to the back helmet by a latch, 5 magnets and 2 pins for quick release

Options

- Picattiny rails
- NVG mount
- Head ventilation system
- Full piece mandible
- HUD clamp for Snow 2
- Digital communication system

Comes in four sizes



Large,
long



Regular,
long



Large,
short



Regular,
short



The **DEVTAC Ronin** is a full ballistic helmet made of kevlar (not limited to) that weighs about 4.8 lbs. with 80% protection to the head.



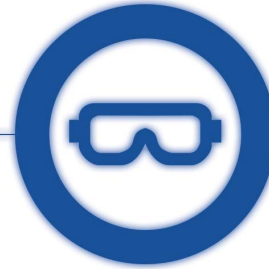
The **Ronin** helmet has detachable plates switchable to different ballistic levels, function and design. The plates are attached by bolts or Velcro. Each of the plates are 7mm thick with 1.5mm sheet of rubber foam for suspension shock absorption. The plates are designed to be separate to lessen the kinetic energy from bullet impacts.



The **Ronin** helmet frame is lightweight and semi-flexible for impact suspension. It is made of Kevlar and weighs about 1 kg. It is what makes the Ronin so special as it acts as a chassis and we can install almost about anything on it.

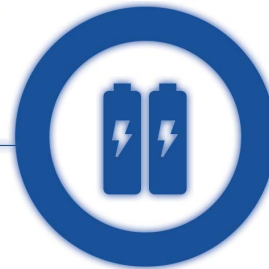


DEVTAC DEFOGGING SYSTEM

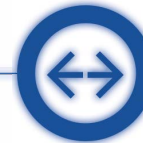


The **lens frame** is the main feature of DEVTAC Technology. A 10mm fan with a micro motor is installed inside the ventilation tube. The fan is placed right next to the lenses and slantedly fanning the surface of the inner lens. When air from outside blows air onto the lenses, it helps **evaporate the condensation** on the lens for **better visibility**.

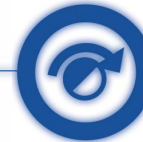
The lens is slide in from the side for **quick replacement**.



The fans are **powered by 2 AAA batteries** housed inside the mask. Operation time is 4 hours on low



Reverse and forward switch for the fans to either blow in air into the lenses for defogging or expelling out humid air.



Speed dial to regulate the speed of the fans. Max speed has a decibel of 70

THE LENS FRAME TECHNOLOGY



Slide-in Lens



Lenses



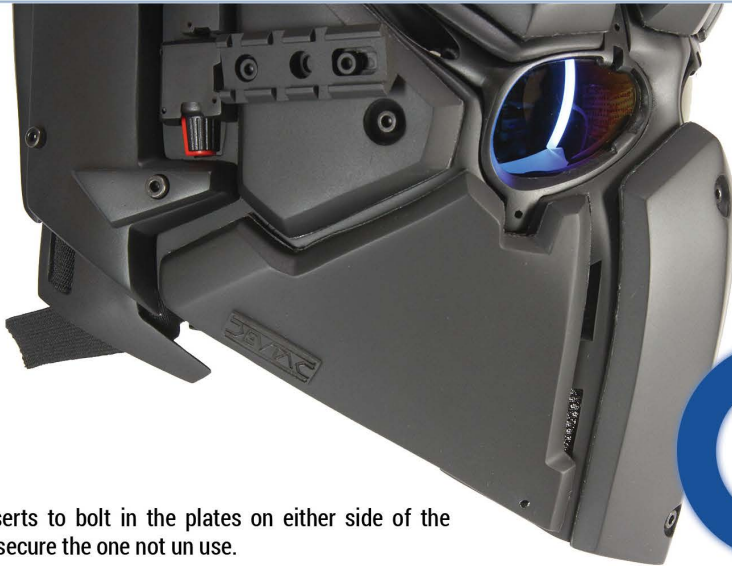
1.7v 10mm Fan



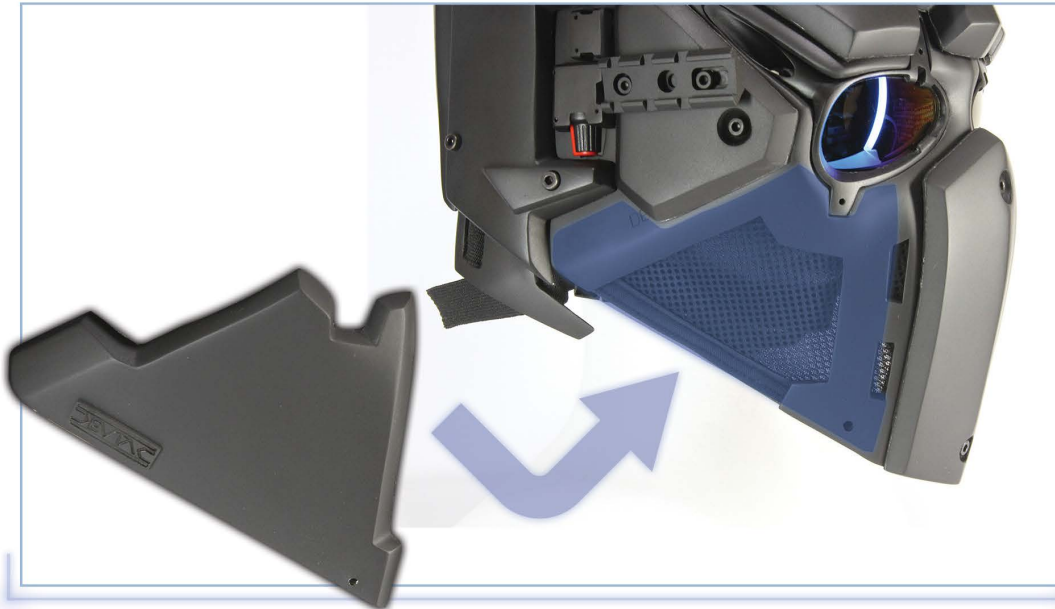
The lens frame is housed on the mask for quick detachment for replacing the lens and fans. It is secured in place with adhesive double-sided tape.

The lens frame has been carefully designed, figuring out the best size and shape for the fans. By blowing enough air on low speed setting, onto the lens to get the most of the **Coandă effect** (/ˈkɔːndə/ or /ˈkwæ-/) is the tendency of a fluid jet to stay attached to a convex surface. Drier air from outside is reducing the the humidity on the surface of the lens.

CHEEK WELD



Thread inserts to bolt in the plates on either side of the cheeks to secure the one not in use.



Look through your sights without having to bend your neck too much. The **DEVTAC Ronin** is the first full ballistic helmet capable of resting your cheek on the stock for better aiming.

1

Quick release, magnetized cheek plates for better cheek weld on looking down the sights.

2

Each cheek plate has 3 strong N52 Neodymium magnets. Each magnet can hold up to 1.5kg.

3

The entire helmet is lined with washable Nylon honeycomb 3D airmesh for breathability, airflow and comfort.

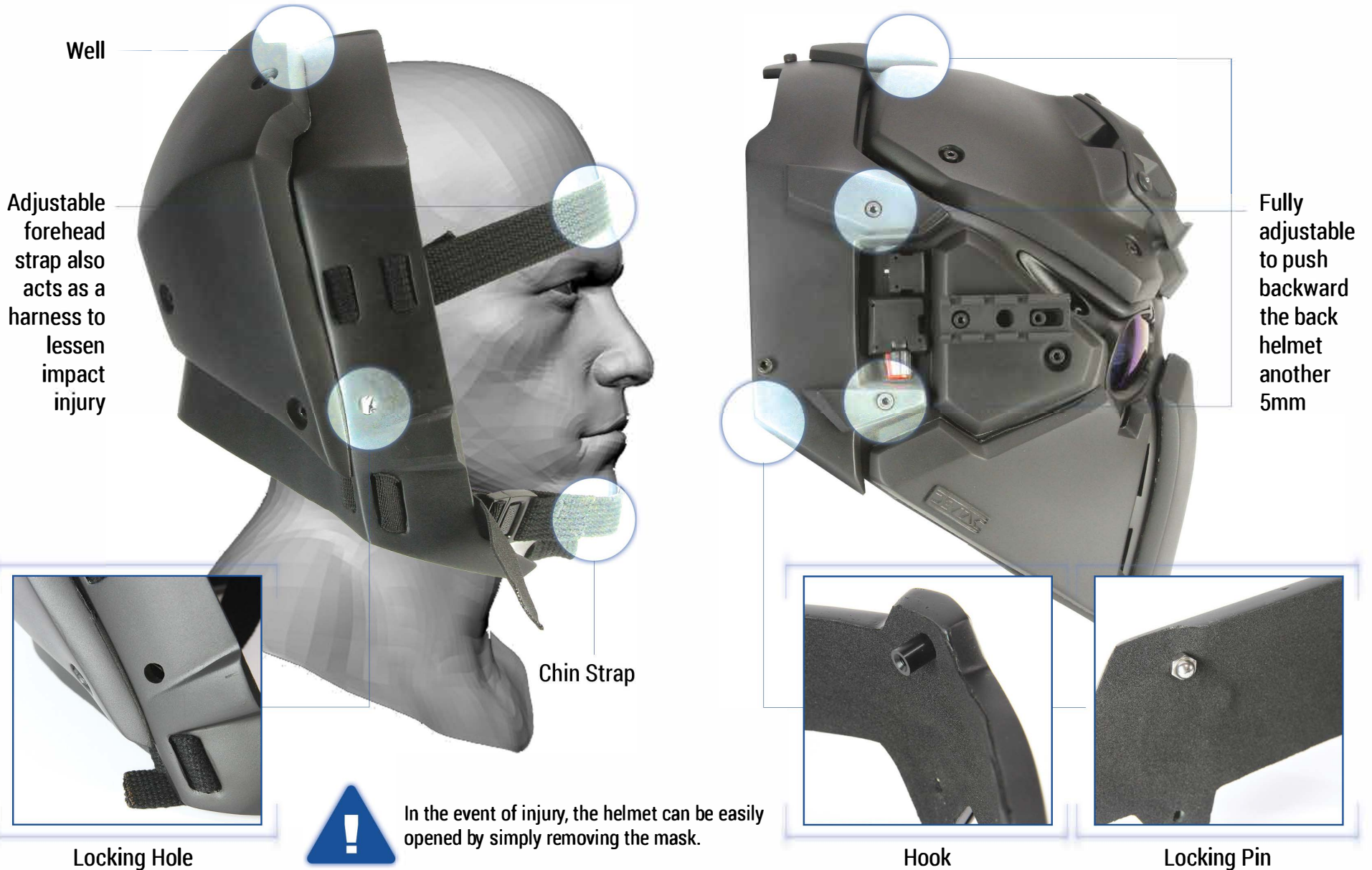
4

The mask's frame itself has 6 built-in N52 Neodymium magnets to attach to the plates



THE BACK HELMET AND THE MASK

The RONIN has two main parts. The helmet sections is designed to lessen the kinetic impact distribution to the whole helmet.



DEVTAC MASK

The **Ronin** can also be worn as a mask only.

Weight: 1.2kg (Front heavy)
Purpose: Breaching, quick wear



The extender is removable



Customized buckle
for weight
distribution



6-point bungee
strap is attached
to use it as a mask



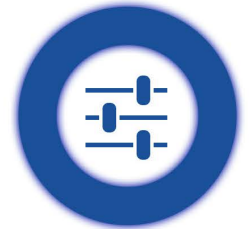
5MM IMPACT ABSORBING FOAM

Ultra Lightweight
by
flextechfoam.com



Spacer is included to accommodate smaller sizes.

Objective: To push the head closer to the mask for better FOV (Field Of Vision).



Additional foams are inserted behind the flextech foam to make it thicker for size adjustment

DEVTAC OPTIONS



Top head fans



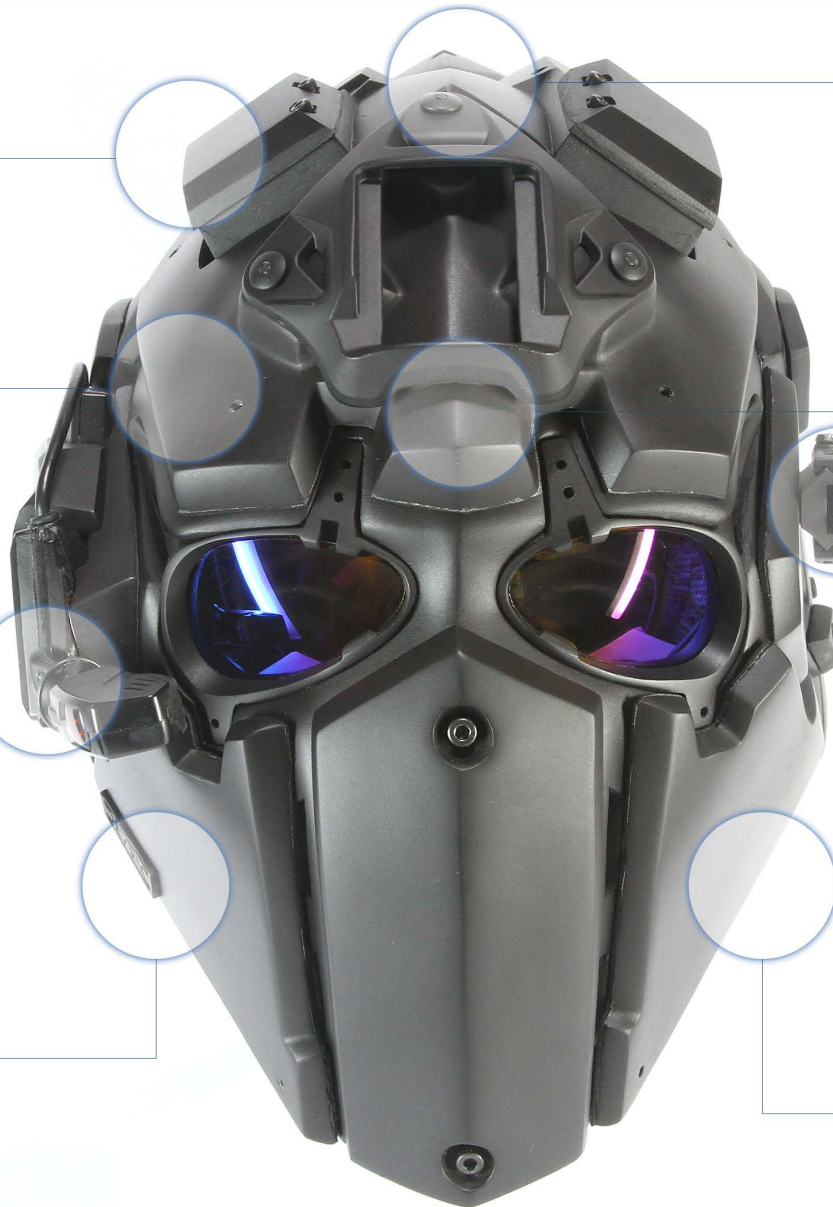
Forehead plate with NVG Shroud



Heads-up display clamp for Recon Snow 2 (not included)



Magnetized, detachable



Smooth top



Norotos NVG Shroud



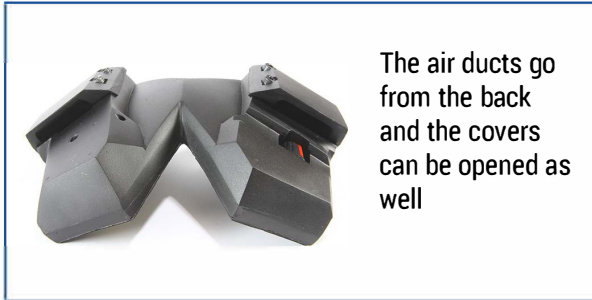
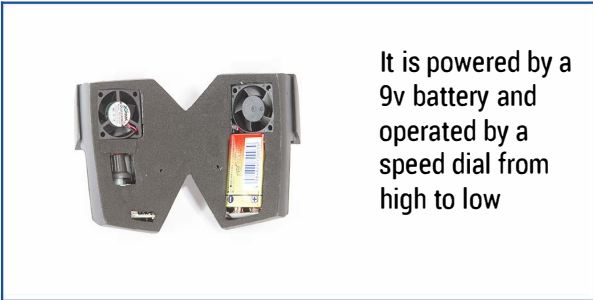
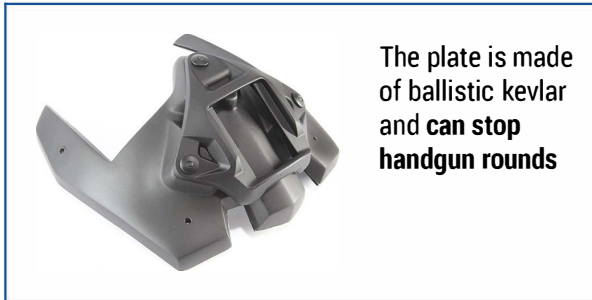
20mm Picatinny rail for left and right side



Full piece mandible

OPTION: FOREHEAD FAN

Ventilation opening on the mask



COMPATIBILITY

DEVTAC RONIN Heads-Up Display Recon Instruments



Recon Snow 2 clamp by DEVTAC



BAE SYSTEMS

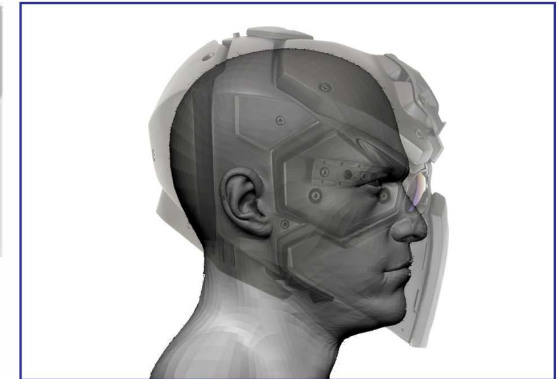
INSPIRED WORK



PERSONALIZED RONIN SIZES

The DEVTEC Ronin comes in four sizes

Size	Weight (Kevlar)	Dimensions (Height)	Width	Maximum Head Circumference	Height From Eye To Chin	Length
Large Long	2-7 kg with NVG Shroud and Rails	Outside 23cm / 31cm Inside 20cm / 30cm	Outside 21cm Inside 17.5cm with foam 19cm max	Max 70cm w/o foams 65cm w/ foams	17cm	Outside 28cm Inside 24cm
Large Short	2-6 kg with NVG Shroud and Rails	Outside 23cm / 29cm	Outside 21cm Inside 17.5cm with foam 19cm max	Max 70cm w/o foams 65cm w/ foams	15.5cm	Outside 28cm Inside 24cm
Regular Long	2-4 kg with NVG Shroud and Rails	Outside 23cm / 29.5cm Inside 22cm / 29cm	Outside 19cm Inside 17cm with foam 18cm max	Max 58cm w/o foams 56cm w/ foams	16cm	Outside 27cm Inside 23.5cm
Regular Short	2-3 kg with NVG Shroud and Rails	Outside 23cm / 28cm Inside 22cm / 27cm	Outside 19cm Inside 17cm with foam 18cm max	Max 58cm w/o foams 56cm w/ foams	15cm	Outside 27cm Inside 23.5cm



Wearer's Body Type



Large Long

Max height
200cm
Max weight
300kg
Head circumference
67cm



Large Short

Max height
175cm
Max weight
300kg
Head circumference
67cm



Regular Long

Max height
195cm
Max weight
180kg
Head circumference
58cm



Regular Short

Max height
175cm
Max weight
80kg
Head circumference
58cm

COMMUNICATIONS COMPATIBILITY

In a versatile world and a continuous demand for the highest and most advanced technology, the **DEVTAC Ronin** is compatible with the leading low profile communications systems out there. These products allow you to communicate with absolute clarity, hear your surroundings and at the same time protect your ear from loud noise and blasts.

Esterline

Racal Acoustics RA7000

ELITE Hearing Protection System
Multi-channel communications and hearing protection system with quick-connect headset and calling for efficient operation.



Claru Pro

Provides active hearing protection (NRR25). Hear-thru capability for situational awareness and cellphone/mobile audio connectivity



INVISIO[®]

NO NOISE. ONLY YOUR VOICE.

The US Army's Tactical
Communication and Protective
System



BALLISTICS REPORT & CAPABILITIES

**NATIONAL TECHNICAL SYSTEMS
MODIFIED/ABBREVIATED NIJ 0106.01 HELMET:
BACKFACE DEFORMATION TEST**

Date Received: 11/14/16
Via: USPS
Returned Via: UPS

Record No.: DEV16001-2A
Test Date: 11/18/16
Customer: DEVTAC

Test Conditions

Temperature: 70 °F
Humidity: 55 %
Test Standard: Modified/Abbreviated NIJ Standard 0106.01 for Ballistic Helmets December 1981
IAW Customer Specified Test Instructions
Ammunition: ICW NIJ Standard 0101.04, Level II and IIA September 2001
Threat Level: II and IIA
Conditioning: Dry

Range 4

Muzzle to Screen 1: 5.00 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 6.40 ft.
Midpoint to Target: 8.90 ft.
Target to Witness: 0 ft.
Headform Size: 7 1/4
Witness Plate: NIJ Clay Headform
Barrel Length: 10 in.

Sample Description			Test / Ammunition Description				Chronograph		Test Results	
Model No.	Sample No.	Weight (lbs.)	Shot No. / (Overall)	Impact Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-S	VELOCITY N/s	BFD (mm) Penetration
DEVTAC	2	6.04	1	Right Side Forehead	0°	.357 Mag.	158 / JSP	342.2	1461	25.23
DEVTAC	2	6.04	2	Back Plate	0°	.357 Mag.	158 / JSP	354.4	1411	8.96
DEVTAC	2	6.04	3	Left Side Forehead	0°	.40 S&W	180 / FMJ FN	467.4	1070	9.38
DEVTAC	2	6.04	4	Right Side Forehead	0°	.40 S&W	180 / FMJ FN	465.2	1075	7.98

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

National Technical Systems, Inc. Phone: 316-832-1600
7447 W. 33rd St. N. Fax: 316-832-1602
Wichita, KS 67205 U.S.A. Email: ustl@nts.com

REMARKS / NOTES:

- Helmet tested as a finished shell with pads, suspension/retention system and chin strap
- Helmet secured to NIJ clay filled headform using suspension/retention system chin strap
- NIJ Clay Filled Headform IAW the dimensions and sizes per Section 5.1.5 and Figure 4.
- See attached digital video of all (4) shots as requested.

Sample Tested:

Manufacturer: DEVTAC
Model No.: DEVTAC
Sample No.: 2
Weight (lbs.): 6.04
Threat Level: TBD

Test Rounds Used:

Shots 1-2: Remington .357 Magnum 158 gr. JSP (22847) @ NIJ 0101.04 Level II velocity of 1430 +/- 30 ft/s
Shots 3-4: Remington .40 S&W 180 gr. FMJ FN (23686) @ NIJ 0101.04 Level IIA velocity of 1055 +/- 30 ft/s

Impact Locations (IAW Customer Specified Locations):

Penetration Test Headform (Clay Filled)

Shot No. 1 (II): Right Side Forehead Plate: Impact on right side forehead plate 1.25" from closest edge of plate
Shot No. 2 (II): Back Plate: Impact centered on back helmet vertical apex ridge; 1.25" from top edge "V" cut
Shot No. 3 (IIA): Left Side Forehead Plate: Impact on left side forehead plate; 2.0" from Shot No. 5; 1.50" from closest edge
Shot No. 4 (IIA): Right Side Forehead Plate: Impact on right side forehead plate; 2.75" from Shot No. 4 & Shot No. 1; 2.0" from closest edge

Test Results:

NIJ 0101.04 Level II - .357 Magnum 158 gr. JSP
Shot No. 1: Bullet stopped in helmet
Shot No. 2: Bullet stopped in helmet

Test Results:

NIJ 0101.04 Level IIA - .40 S&W 180 gr. FMJ FN
Shot No. 3: Bullet stopped in helmet
Shot No. 4: Bullet stopped in helmet

DEVTAC RONIN backface signature from .357 Magnum is 8.96mm

NIJ standard allowable back face signature is 18mm.

Because of the separate plates, the helmet is able to reduce the kinetic energy for the whole head.



Other available ballistic helmets out there:



BALLISTICS REPORT & CAPABILITIES



The **DEVTAC Ronin** is designed as a plate carrier and the plates materials and ballistic level can vary.



Dyneema



Polyethelene



Cer`amics

Fear is inevitable, courage is achievable, but only when we have the right tools is when we can be courageous.

DO YOU HAVE THE RIGHT TOOLS TO BE EFFECTIVE IN YOUR MISSION?

With the **Devtac Ronin**, we minimize the concerns and provide you with better confidence and ergonomics that has been long over due in breaching missions.

We have created the first full cover helmet that supports cheek weld, defogging system, quick release and access, 80% protection, light weight, impact mitigation, and compatibility with the highest technologies that is 10 years ahead of its time.

At **DEVTAC**, we thinks outside the box because life is priceless.