



Attachment Cord

Indicator Lights

Activation Button

Micro-USB Port

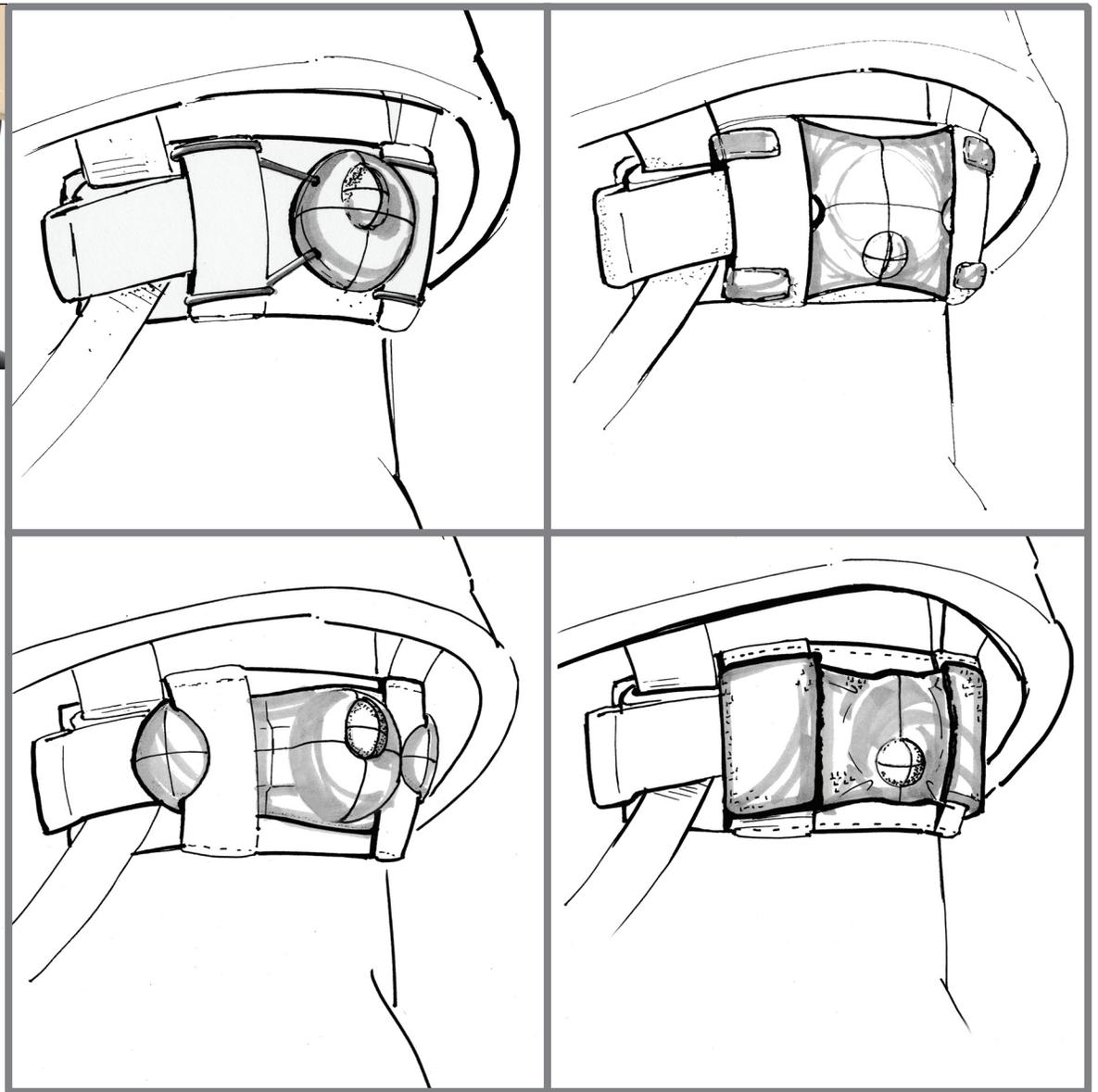
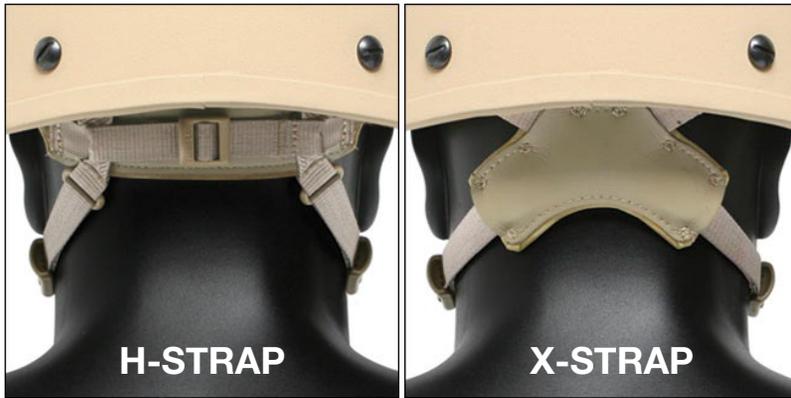
Sensor Dome



BLAST DOSIMETER

Blast Gauge is a wearable sensor that measures exposure to explosive blasts. It aids medics in blast triage and brain injury diagnosis. The device is dust, weather and impact resistant, all in a package that is less than 1 cubic inch and weighs less

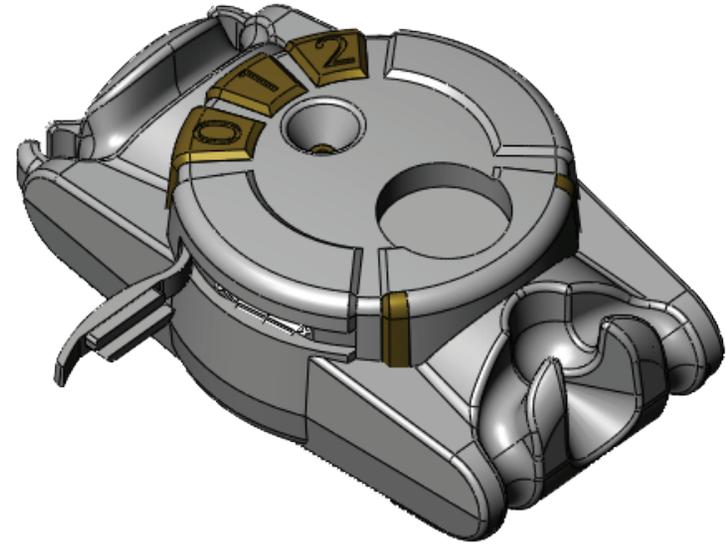
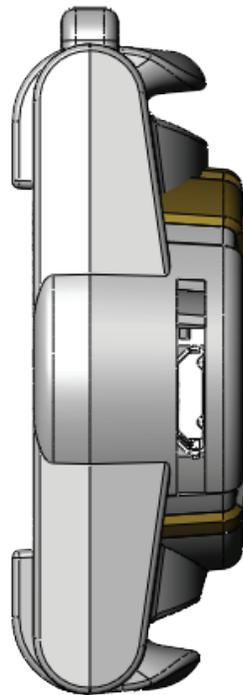
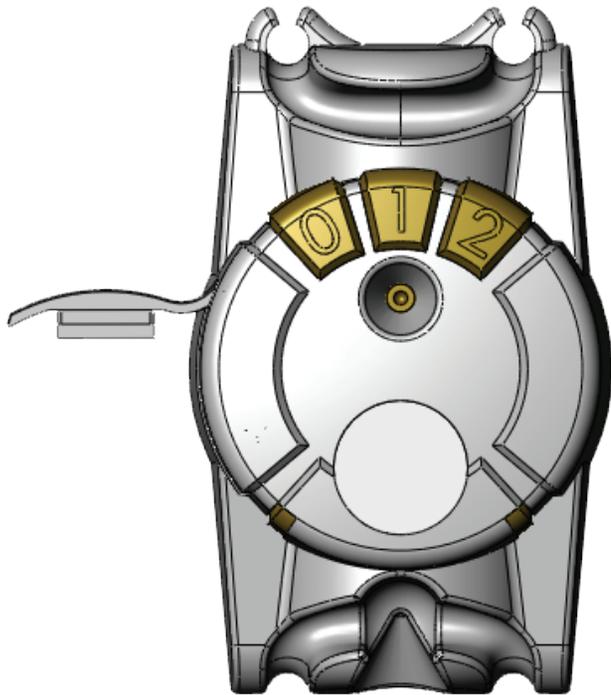
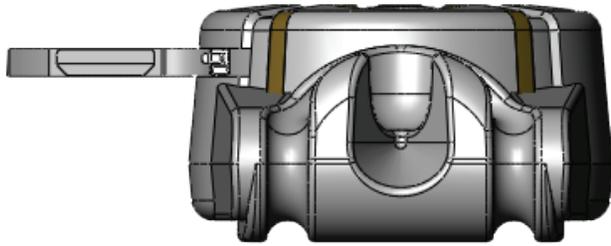
than 1 ounce. It is currently worn by over 11,000 US and Australian soldiers and has been featured in articles by DARPA, ABC News, CNN, and USA Today.



BLAST DOSIMETER - CONCEPTS

Initially, we were asked to create nape strap-mounted concepts, but we quickly realized the product needed to accommodate a wide range of strap types. After the engineers refined the internal components and blast-tested

the prototype, the client asked us to create a concept that would not only mount to various helmet nape straps, but also to PALS webbing, and be able to velcro to a patch or to a vehicle or structure.



Shown without sensor dome or attachment cord

BLAST DOSIMETER-3D MODEL

Utilizing SolidWorks, I created the 3D model directly based on our client's circuit board designs. The model allowed our client to visualize the completed product, correct problem areas, produce 3D prints of the product for human factors

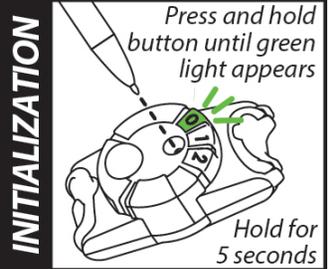
testing, and get accurate pricing from manufacturers. The model was used by the manufacturers in the creation of low volume tooling and production tooling.

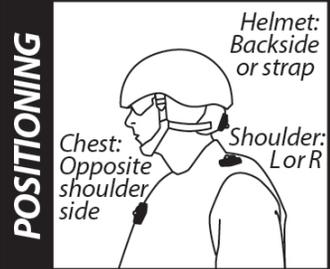


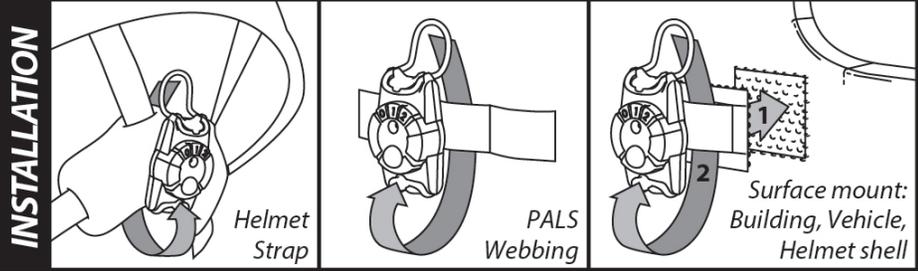
BLAST GAUGE IS A TOOL FOR MEASURING BLAST EXPOSURE

BLAST GAUGE



INITIALIZATION


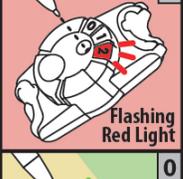
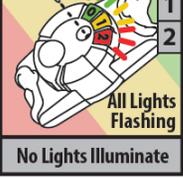
POSITIONING


INSTALLATION


Note: For vertical installations - position lights up, dome down as shown above

BLAST GAUGE R3

Card Front

STATUS		CHECK STATUS BEFORE AND AFTER OPERATIONS	
	0	WHAT IT MEANS	STEPS TO FOLLOW
	0	Blast event not detected.	<ul style="list-style-type: none"> • Low-to-no pressure measured • If TBI indicators or red flags, perform MACE • Those with no indicators or complaints are good to go
	1	Blast event detected. See medic!	<ul style="list-style-type: none"> • Moderate pressure measured • Look for other TBI indicators or red flags • Evaluate with MACE as soon as possible • Recover and replace blast gauge
	2	Serious blast event detected. See medic!	<ul style="list-style-type: none"> • High pressure measured • Look for other TBI indicators or red flags • Evaluate with MACE immediately • Recover and replace blast gauge
	0 1 2	Low battery or error condition.	<ul style="list-style-type: none"> • Low-to-no pressure measured • If TBI indicators or red flags, perform MACE • Those with no complaints are good to go • Recover and replace blast gauge
No Lights Illuminate		Battery dead.	<ul style="list-style-type: none"> • Recover and replace blast gauge

Card Back

BLAST DOSIMETER - INSTRUCTIONS

After finalizing the design of the Blast Dosimeter, our client asked us to design a quick start guide card that would be packaged with the product for quick reference by the soldier or medic. This two-sided card is meant to be as simple and

small as possible while still conveying the basic concepts of operation. At a size of 3.5" by 3", it met the requirement of both fitting into the product's packaging as well as into the pocket on a soldier's uniform. Designed in Adobe Illustrator

