PRO DETO

2024

CATALOG INDEX

- Multispectral (thermal) camouflage
 Page 4 to 39
- > Ghillie SuitPage 42 to 74

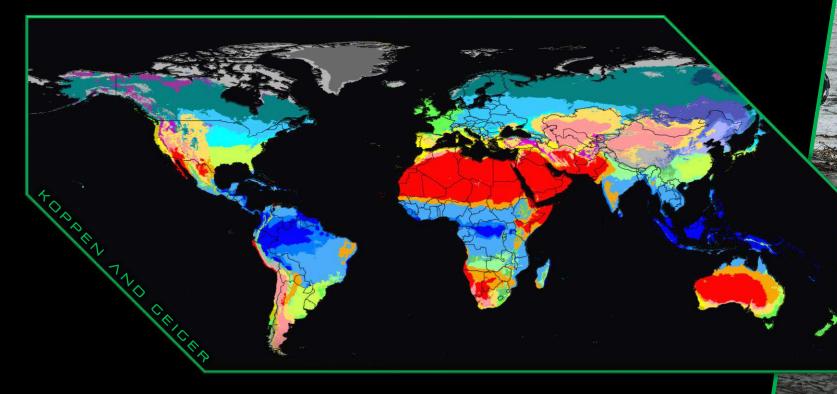
- > Ghillie bases
 Page 75 to 81
- > Ghillie 3D patterns
 Page 82 to 121

- > Ghillie NIR effectiveness
 Page 122 to 133
- > 2D patterns Page 134 to 143
- > NATO code and contacts Page 145 and 146

HTTPS://WWW.PROAPTO-CAMOUFLAGE.COM/



AMPHIBIOUS MULTISPECTRAL CAMOUFLAGE BASED ON WORLWIDE BIOMES



INDIVIDUAL MULTISPECTRAL CAMOUFLAGE VIS - NIR - TIR

1.

PATENTED |P

ProApto indipendently developed and individual multispectral patented camouflage (VIS – NIR – TIR) to provide adequate counter-thermal measures against the increasing proliferation of hand and rifle mounted thermal sensors, as well as to the escalating threat of thermal drones and UAS. ProApto anti-thermal camouflage provides simultaneous VIS -NIR and TIR concealment maximising soldiers' survivability and lethality on the contemporary peer-to-peer battlefield.





FABRIC SPECS.

ProApto multispectral camouflage is based on patented design with the following features:

- thickness: from 0.1mm to 0.5mm
- weight: from 120gsm to 350gsm
- water-resistant
- breathable and not insulating
- extremely silent
- washable with no decay of performance
- can undergo further treatments

3D PATTERN VERSATILITY

All ProApto multispectral camouflage can be enhanced with n.12 3D VIS-NIR camouflage patterns designed for manifold types of operations. More info on 3D patterns can be found at page 62, while more info on 2D patterns are available at page 112.

The 12 3D camouflage patterns range from natural fibers like Jute and Rafia (fireretardant) to waterproof and fireproof plastic alloys . In addition, natural elements can be added to the camouflage systems for greater camouflage adaptability.





AMPHIBIOUS USE

ProApto multispectral Since camouflage does not decay with time and water, it is suited for amphibious uses and operations ranging from static observation to amphibious reconnaissance. ProApto individual multispectral solutions are equally effective in fresh and salt waters ensuring stable and longlasting concealment for the operators. The same item can be used effectively from the sea to the alps.

LIGHTWEIGHT SOLUTION

individual ProApto multispectral camouflage (VIS - NIR - TIR) is lightweight and easily transportable across long distances and transitions. The individual counter-thermal systems as full body coverage range between 1.2 kg and 2.5 kg of weight (on average 1.8 kg) and are packable in 25 x 30 x 30 cm bags. ProApto camouflage platforms feature both highly effective **2D and 3D camouflage**, ensuring adaptability manifold high in environments.





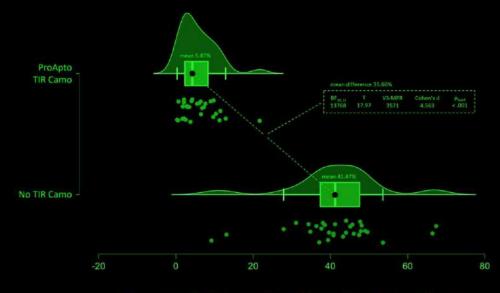
WE PROPOSE:

5 INDIVIDUAL MODELS

18 2D-CAMOUFLAGE PATTERNS FOR EACH BIOME OF THE GLOBE

80 DIFFERENT SOLUTIONS

DATA ANALYSES



Operator-Environment LWIR signature discrepancy %

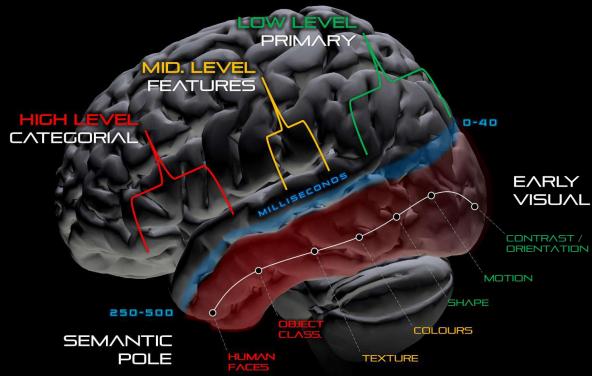
We computed that ProApto Multispectral camouflage can reduce the operator's TIR signature tuning it around 5% of discrepancy from the environment TIR signature. Details on demand.





NEUROSCIENCE BASED

Camouflage designed to interfere at neural level with the neuropsychological processes of object identification and recognition.



INDIVIDUAL MULTISPECTRAL CAMOUFLAGE Models



RECONDOR MULTISPECTRAL PONCHO



DESCRIPTION

ProApto RECONDOR is a modular and multipurpose poncho with detachable hood. The poncho can be used for static observation and worn during movement drastically reduce to soldier's signature. Arms and legs covers can be added to the system as to achieve full-body RECONDOR coverage. does not insulate the user, is breathable, silent and suited for amphibious operations.

FABRIC'S FEATURES

- thickness: 0.1mm 0.3mm
- weight: 120gsm 350gsm
- water-resistant
- breathable and not insulating
- silent
- washable with no decay of performance
- can undergo further treatments

PRODUCT'S FEATURES

- Poncho weight : 950 gr
- Poncho dimensions: 135cm x 200cm
- Poncho weight + hood: 1.3 kg
- Poncho weight + limb-covers: 1.8 kg
- Range between 750 gr and 1.8 kg

MULTIPURPOSE PONCHO/CLOAK WITH DETACHABLE HOOD

TO SEE ALL OUR 16 20 PATTERNS GO TO:

WWW.PROAPTO-CAMOUFLAGE.COM/2D-CAMOUFLAGE-PATTERNS

MODULAR AND MULTIPURPOSE - ADDITIONAL LIMB COVERS



SUITABLE TO CONCEAL OBSERVATION POSTS



DOUBLE SIDED - REVERSIBLE SYSTEM

DOUBLE SIDED - REVERSIBLE SYSTEM





HIGH NIR-SWIR CAMOUFLAGE EFFECTIVENESS

CAMOUFLAGE FOR URBAN AND INDUSTRIAL ENVIRONMENTS

A VIDEO PLAYLIST OF TIR EFFECTIVENESS

HTTPS://WWW.YOUTUBE.COM/WATCH?V=7-7EQ5VNX5Q&LIST=PLQIFSWEVGGLGKMZEX2KSHTNYVMGPHNTOS

CAMOUFLAGE FOR RURAL AND MOUNTAIN ENVIRONMENT



A VIDEO PLAYLIST OF TIR EFFECTIVENES

HTTPS://WWW.YOUTUBE.COM/WATCH?V=7-7EQ5VNX5Q&LIST=PLQIFSWEVGGLGKMZEX2KSHTNYVMGPHNTOS

THE SYSTEM CAN BE ENHANCED WITH 3D CAMOUFLAGE



TO SEE ALL OUR 16 30 PATTERNS GO TO

WWW.PROAPTO-CAMOUFLAGE.COM/3D-CAMOUFLAGE-PATTERNS



PARAMETERS OF MULTISPECTRAL EFFECTIVENESS



	VIS			NIR		MWIR	- LWIR
ЗООхм		700 _{NM}	700nm		2500×M	ВОООнм	1500 0nm

PARAMETERS OF MULTISPECTRAL EFFECTIVENESS

- Effective VIS camouflage is offered above 200mt of distance from the observer
- Effective NIR camouflage is offered above 50mt of distance from the observer
- Effective MWIR camouflage is offered above 650mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA)
- Effective LWIR camouflage is offered above 250mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA). Out of the above-mentioned environmental conditions, TIR (MWIR – LWIR) camouflage effectiveness is obtained at greater distances from the sensors
- TIR camouflage is provided in daylight and nighttime, direct sunlight may impact TIR effectiveness. High pressure, humidity above 90% and low clouds reduced multispectral effectiveness requiring greater distances from the observer
- The Multispectral Camouflage Suits are designed to be worn over the soldier's equipment (ballistic helmets, vests, plate carriers and so on) and do not interfere with head-mounted optronics (like night vision goggles)

OCCULTOR MULTISPECTRAL 20-30 SUIT



DESCRIPTION

The OCCULTOR suit is a full body system with a modular concept. The main solution is made of a jacket and a detachable hood featuring a net grid with 3D camouflage allowing application of vegetation. Additional, 2 legs covers lead to full body coverage. <u>This</u> system is designed for reconnaissance and large movements on the ground, and offer high VIS - NIR - TIR 2D and 3D camoflage

FABRIC'S FEATURES

- thickness: 0.1mm 0.3mm
- weight: 120gsm 350gsm
- water-resistant
- breathable and not insulating
- silent
- washable with no decay of performance
- can undergo further treatments

PRODUCT'S FEATURES

- Upper body weight : 1.3 kg
- Legs covers weight: 500 gr
- Total weight from 1.2 to 2.5 kg

20 AND 30 MULTISPECTRAL CAMOUFLAGE



A VIDEO PLAYLIST OF TIR EFFECTIVENESS

HTTPS://WWW.YOUTUBE.COM/WATCH?Y=7-ZEQ5VNX5Q&LIST-PLOIFSWEVC6LGKMZEX2KSHTNYVMGPHNTOS LWIR - 640×512 12 µM SENSOR (NETO \$35MK)

DISTANCE 30MT TEMP. BC - 16C Humidity 96% Atm 1035 LWIR - 640X512 12µM SENSOR (NETO ≤35MK)

DISTANCE 30MT TEMP. 8C - 16C Humidity 96% Atm 1035

PARAMETERS OF MULTISPECTRAL EFFECTIVENESS



	VIS			NIR		MWIR -	LWIR
ЗООмм		700nm	700NM		2500×M	3000nm	15000 _{NM}

PARAMETERS OF MULTISPECTRAL EFFECTIVENESS

- Effective VIS camouflage is offered above 200mt of distance from the observer
- Effective NIR camouflage is offered above 50mt of distance from the observer
- Effective MWIR camouflage is offered above 650mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA)
- Effective LWIR camouflage is offered above 250mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA). Out of the above-mentioned environmental conditions, TIR (MWIR – LWIR) camouflage effectiveness is obtained at greater distances from the sensors
 - TIR camouflage is provided in daylight and nighttime, direct sunlight may impact TIR effectiveness. High pressure, humidity above 90% and low clouds reduced multispectral effectiveness requiring greater distances from the observer
- The Multispectral Camouflage Suits are designed to be worn over the soldier's equipment (ballistic helmets, vests, plate carriers and so on) and do not interfere with head-mounted optronics (like night vision goggles)

RIMATOR MULTISPECTRAL GHILLIE SUIT



DESCRIPTION

The ProApto RIMATOR suit is a multispectral camouflage system designed for snipers. It is composed of 3 pieces: detachable hood, upper body coverage and trousers with additional option of boot covers. The dorsal portion of the suit is covered by a net grid with 3D elements. The grid enables to apply natural elements to maximize concealment. The ventral portion is covered with abrasion resistant fabric for crawling.

FABRICS' FEATURES

- thickness: 0.3mm 1mm
- weight: 300gsm 650gsm
- water-resistant
- breathable
- silent
- washable with no decay of effectiveness
- can undergo additional treatments

PRODUCT' FEATURES

- maximum weight: 5.2 kg
- universal sizing
- 2D camouflage available in 18 patterns
- 3D camouflage available in 12 patterns

THE SUIT CAN BE PRODUCED IN 19 3D CAMO PATTERNS

TO SEE ALL OUR 19 30 PATTERNS GO TO:

WWW.PROAPTO-CAMOUFLAGE.COM/3D-CAMOUFLAGE-PATTERNS

ALTITUDE: 1200 MT AIR TEMPERATURE +5° C CROUND TEMPERATURE -2° C RELATIVE HUMIDITY 97% ATM: 890 MBAR WIND 15-25 KM/H

DISTANCE: 110 MT

LWIR SENSOR USED: NETO MK ≤35 640X512 12µM

-

MULTISPECTRAL SUIT FOR OPERATIONS AT SHORT RANGE

A VIDED PLAYLIST OF TIR EFFECTIVENESS

HTTPS://WWW.YOUTUBE.COM/WATCH?V=7-7EQ5VNX5Q6LIST=PLQIFSWEVGGLGKMZEX2KSHTNYVMGPHNTOS

PARAMETERS OF MULTISPECTRAL EFFECTIVENESS





PARAMETERS OF MULTISPECTRAL EFFECTIVENESS

- Effective VIS camouflage is offered above 50mt of distance from the observer
- Effective NIR camouflage is offered above 20mt of distance from the observer
- Effective MWIR camouflage is offered above 300mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA)
- Effective LWIR camouflage is offered above 100mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA). Out of the above-mentioned environmental conditions, TIR (MWIR – LWIR) camouflage effectiveness is obtained at greater distances from the sensors
- TIR camouflage is provided in daylight and nighttime, direct sunlight may impact TIR effectiveness. High pressure, humidity above 90% and low clouds reduced multispectral effectiveness requiring greater distances from the observer
- The Multispectral Camouflage Suits are designed to be worn over the soldier's equipment (ballistic helmets, vests, plate carriers and so on) and do not interfere with head-mounted optronics (like night vision goggles)



PRAEDATOR MULTISPECTRAL BOLERO





DESCRIPTION

ProApto PRAEDATOR is upper body multispectral camouflage mostly designed for trench lines, foxholes and sniper hides. The system covers the head, face, arms and upper back and torso, it is designed for ambush and in any situation where the operator is static into some sort of protection. For example, the use in trench lines. Praedator can be combined with other camouflage to achieve full body camo.

FABRIC'S FEATURES

- thickness: 0.1mm 0.3mm
- weight: 120gsm 350gsm
- water-resistant
- breathable and not insulating
- silent
- washable with no decay of performance
- can undergo further treatments

PRODUCT'S FEATURES

- Poncho weight : 350-800 gr
- Combinable with RECONDOR system

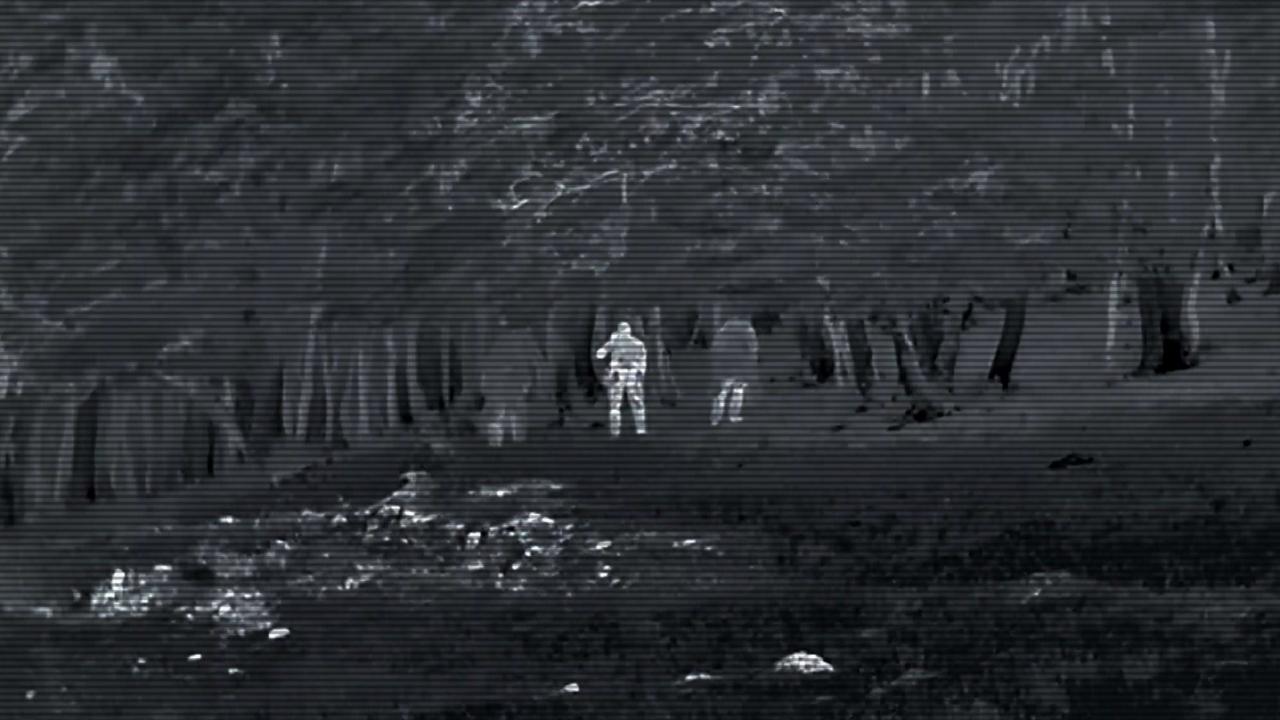
THE SUIT CAN BE PRODUCED IN 19 3D CAMO PATTERNS

TO SEE ALL OUR 19 30 PATTERNS GO TO:

WWW.PROAPTO-CAMOUFLAGE.COM/3D-CAMOUFLAGE-PATTERNS

PARAMETERS OF MULTISPECTRAL EFFECTIVENESS

- Effective VIS camouflage is offered above 200mt of distance from the observer
- Effective MIR camouflage is offered above 50mt of distance from the observer
- Effective MWR camouflage is offered above 650mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA)
- Effective LWIR camouflage is offered above 250mt of distance from the observer in temperature range between 10 and 30 degrees Celsius (RH up to 90%; ATM up to 1013hPA). Out of the above-mentioned environmental conditions, TIR (MWIR – LWIR) camouflage effectiveness is obtained at greater distances from the sensors
- TIR camouflage is provided in daylight and nighttime, direct sunlight may impact TIR effectiveness. High pressure, humidity above 90% and low clouds reduced multispectral effectiveness requiring greater distances from the observer
- The Multispectral Camouflage Suits are designed to be worn over the soldier's equipment (ballistic helmets, vests, plate carriers and so on) and do not interfere with head-mounted optronics (like night vision goggles)



GHILLIE SUITS

MODULAR - MULTIPURPOSE GHILLIE SUITS

VIS - NIR

ITALIAN CRAFTMANSHIP

Our Camouflage systems are completely designed and made in Italy sourcing italian and european materials (only rafia comes from Africa). Our uniquely trained italian artisans take days to handmade ProApto Ghillies, this is the reason why production is on demand and usually takes from 30 to 180 days to receive the order.

ITALIAN MATERIALS





WE PROPOSE:

9 GHILLIE MODELS

PATTERNS FOR EACH BIOME OF THE GLOBE

108 DIFFERENT PRODUCTS

GHILLIE SUIT RENOVATION

From 2015 ProApto revised and extended the common Ghillie Suit design, proposing an innovative system minimizing the common problems related to Ghillie suit usage. Overheating, cumbersomeness, heavy weights and textile freezing are issues you won't experience using ProApto Ghillies.

ProApto's design ensure high breathability, low weight and unpaired modularity and versatility in any environment and weather.





PATENTED DESIGN

ProApto 3D Ghillie patterns and Ghillie bases are patented over 30 countries. Our Ghillies are built on a patented plastic alloy, fully waterproof, extremely silent and lightweight which ensure long lasting camouflage system and full breathability and sensory awareness. The design of each Ghillie model is adjustable fully according to individual and operational needs or different sizing.

3D PATTERN VERSATILITY

All ProApto Ghillie Models can be produced in the ProApto standardised 3D Ghillie Patterns. ProApto is the only company providing 3D patterns and has the widest 3D material choiche in the world.

The 19 3D camouflage patterns ranges from natural fibers like Jute and Rafia to waterproof and fireproof plastic alloys . In addition, natural elements can be added to the camouflage systems for greater camouflage adaptability.

More info on 2D patterns are available at page 112.





EXPLORE VIDEOS

We provide several videos of the Visual and Near infra-red effectiveness of our Ghillie Suits. Our YouTube channel hosts over 250 videos organised for Ghillie models and for 3D camouflage patterns.

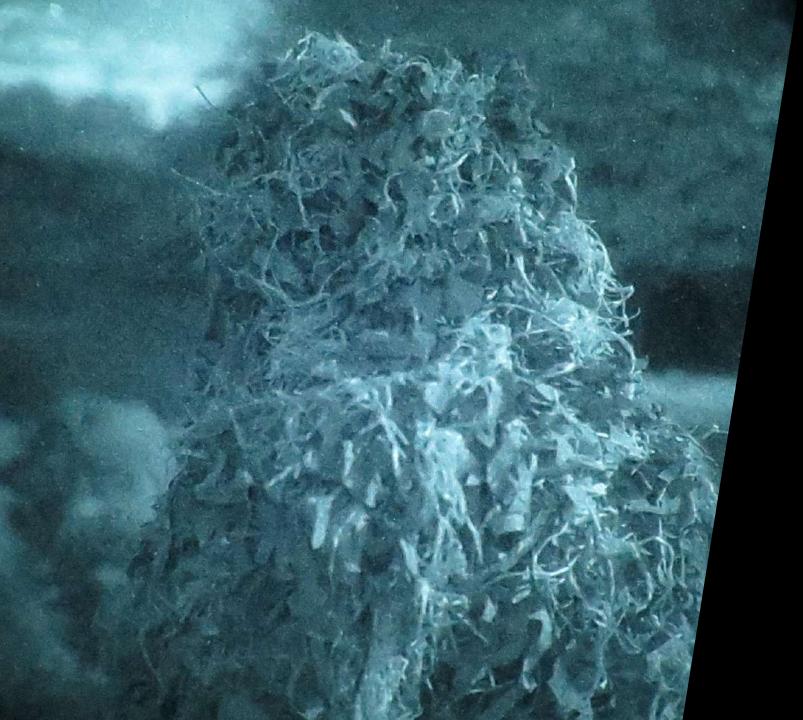
At the link here below, you can find a youtube playlist showcasing several environmental tests and demonstrations we carried out.

https://www.youtube.com/@ProApto/ playlists

UNPAIRED CAMOUFLAGE

All ProApto Ghillie suits offer high 3D camouflage effectiveness (VIS and NIR) within and beyond the intended environment of use. Indeed, the 3D camouflage material is designed to perfectly blend in the operational environment while being versatility deployed in the transitional biomes related to the main environment of use. The application of natural elements or additional 3D camouflage only enhances the 3D adaptability of ProApto Ghillie systems.





GHILLIES' FEATURES

ProApto multispectral Ghillie suits offer the following features:

waterproof highly breathable base made of high-resistance plastic alloy.
All bases are modular and MOLLE compatible.

 possibility to apply vegetation and additional 3D material on the whole system (not only in specific areas)

 high VIS and NIR effectiveness even at very short range

GHILLIE SUIT MODELS

STALKING-HOOD

AVERAGE WEIGHT 500GR

STALKING-HOOD®



· THERMAL CAMO

· IR COLOURS

PHOTOGRAPHY

· AIRSOFT/MILSIM

DESCRIPTION

The Stalking-Hood is the enhanced version of the classic Viper-Hood.

This redesign boasts improved features and a longer back for better coverage. We avoided fabric entirely, as it can easily rip and get wet, and replaced it with lightweight netting. The mesh base is extra-resistant, highly breathable and waterproof. In addition, it is MOLLE-compatible, allowing you to attach small pouches, radios, knives and binoculars to the chest area.

The Stalking-Hood is a modular item that, combined with a Multipurpose Ghillie Cape Shelter 1, forms a Multipurpose Modular Stalking Suit (MMSS), a stalking suit that conceals a large portion of the body, as well as backpacks of several sizes.

It weighs between 350g-950g. It can be transported inside a pouch or draped over a backpack.

STALKING-HOOD+EXT

The second ALL ALL

AVERAGE WEIGHT 900GR

STALKING-HOOD[®] + BACK EXTENSION MOD.



DESCRIPTION

The Stalking-Hood + detachable back extension provides the same body coverage as a standard "cobra hood" style ghillie (head, shoulders, back).

The extension can be removed by untangling paracord knots or unhooking buckles (provided upon request). It can be used as a backpack cover or as a way of concealing a firearm/camera during stakeouts.

The overall weight of this Ghillie varies between 450gr if made in (pattern Greenzone, Broad Leaved woodland or Lagoon) or 1100gr if made in other patterns.

This configuration can be further extended by adding removable sleeves extensions and face coverings. Such additions would be the upper part of the full-body Ghillie described later in this document.

GHILLIE CAPE 1

AVERAGE WEIGHT 700GR

and the second of the second s

MULTIPURPOSE GHILLIE CAPE SHELTER-1®



BODY COVERAGE

> FEATURES

- WATERPROOF BASE
 BREATHABLE BASE
- WEIGHT 500/1100 GR
- · DIMENSION 1x1 MT
- MODULAR DESIGN
- · THERMAL CAMO
- IR COLOURS

> USES

- · STALKING SHELTER
- SUSPENDED HUT
- · BACKPACK COVER
- · MILITARY OPS.
- RECON
- HUNTING/FISHING

DESCRIPTION

The Multipurpose Ghillie Cape Shelter 1 is a multipurpose ghillie. Designed for military use, in particular for recon activities and to be used a personal camouflage system when the base is not covered by 3D camouflage material.

When worn, the Ghillie Cape Shelter 1 breaks the outline of the head and shoulders while concealing the back greatly disrupting the human figure.

It can withstand up to 300 kg of weight. It has no sleeves nor hood, and it can be worn securing it to a boonie hat or a helmet.

The Shelter 1 can also be converted into a suspended shelter such as a hammock-chair or a suspended platform. Also converts into a shelter for stealth camping and a spotting shelter. It can function as an emergency litter or to transport hunted game.

WOOKIE SUIT

NATO STOCK NUMBER - 8415150331196

上位(书)



AVERAGE WEIGHT 2KG

FULL BODY MODULAR GHILLIE 'WOOKIE-SUIT'



DESCRIPTION

The full-body Suit conceals 70% of the body, including hands and feet.

The upper piece is a Stalking-Hood with added back extension, long sleeves and a Dorsal Hand Ghillie Cover. The lower piece consists of Modular Ghillie Over-trousers with added Side and Back Ghillie Boot Covers. The Ghillie Overtrousers are fully adjustable and allow for easier crawling, as they do not cover or restrict the inner leg (the body part most involved in crawling) or the front as standard ghillie trousers usually do. Face and chest coverings can be added if needed.

This Wookie Suit is modular and breathable, suitable for all types of clothing in every season. The design does not interfere with any configuration and because its mesh base, antenna and cables can be passed through it with no issues. The weight ranges from 1.2kg to 2.5kg depending the pattern chosen.

вору		ERAGE
A		A
$/H^{\circ}$		
	1	
XX	2	2.4

- BREATHABLE BASE
- WEIGHT 0.9/2 кс
- MOLLE COMPATIBLE
- MODULAR DESIGN
- THERMAL CAMO
- IR COLOURS

- RECON
 - STALKING
 - HUNTING
 - ANTIPOACHING
- PHOTOGRAPHY
 - AIRSOFT/MILSIM

GHILLIE HELMET COVER

GHILLIE HELMET COVER - SIDESHOW BOB



> FEATURES HELMET COVERAGE

> USES

- UNIVERSAL FIT
- WATERPROOF BASE
- WEIGHT 100-150cr
- 50cm X 40cm
- · IR CAMO
- THERMAL CAMO
- ADD VEGETATION

WHEN NOT ON THE HELMET IT CAN BE ALSO USED AS:

- HEAD 'GHILLIE-HAT'
- RIFLE/SCOPE COVER
- CAMERA COVER
 - · SIDESHOW BOB

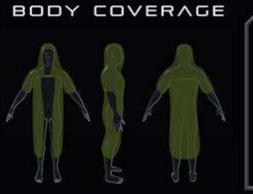
DESCRIPTION

The Ghillie Helmet Cover is a heavy duty base for concealing your head and it will stay with you for years. It is made with a waterproof NIR high-resistance net (the same of our Ghillies), which enables applying vegetation and passing cables through it. Ear protections can be adjusted effortlessly, and IR signaling lights remain visible when covered by the Ghillie. Lights can function properly when the Ghillie cover is on the helmet because the net base makes it possible to place light bulbs in-between the meshes. Night vision mounts and night vision goggles can be placed and removed without problems since the Ghillie Helmet Cover can easily secured to them. be The Ghillie Helmet Cover can be secured to any helmets thanks to paracord strings (or zip-ties if you prefer a more stable and "longterm" setup). The Ghillie Helmet Cover is also adjustable and customizable depending on specific personal requirements.

OTHER GHILLIE MODELS

MODULAR MULTIPURPOSE STALKING SUIT [MMSS]





AGE / > FEATURES

- · WATERPROOF BASE
- · BREATHABLE BASE
- WEIGHT 0.9/1.6 кс
- · MOLLE COMPATIBLE
- · MODULAR DESIGN
- · THERMAL CAMO
- IR COLOURS

> USES

- STALKING SHELTER
 SUSPENDED HUT
- STEALTH HIKING
 - · STEALTH CAMPING
 - · MILITARY OPS.
- · ANTIPOACHING
- HUNTING/FISHING

DESCRIPTION

Stalking-Hood Modular Multipurpose Stalking Suit is the combination of the Stalking-Hood and the Multipurpose Ghillie Cape Shelter 1, for a greater body cover.

It allows several options:

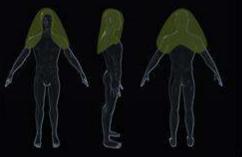
- 1. Cover head, shoulders and upper arms (using only the Stalking-Hood)
- Cover head, shoulders and back (using only a Multipurpose Ghillie Cape Shelter 1)
- 3. Cover head, shoulders, upper arms, back, and the upper legs (combining the Stalking-Hood with the Multipurpose Ghillie Cape Shelter 1)

This Modular Suit can be useful for stalking activities. The Stalking-Hood can be easily worn even with a large backpack (30L-70L), and the Ghillie Cape Shelter 1 can be secured to over the backpack as a ghillie cover.

MULTIPURPOSE G. CAPE - 'COBRA-HOOD'®



BODY COVERAGE



SE / > FEATURES

- · WATERPROOF BASE
- · BREATHABLE BASE
- WEIGHT 0.350/850 GR
- · DIMENSION 0.5×1 MT
- · MODULAR DESIGN
- · THERMAL CAMO
- IR COLOURS

> USES

- BACKPACK COVER
 STALKING NET
- · PHOTOGRAPHY

 - · HUNTING
 - · STALKING

RECON

DESCRIPTION

A minimalist Multipurpose Ghillie designed with wildlife photography in mind. It conceals the head and shoulders, breaking up and rounding off the human silhouette (in the same fashion as Shelter1, Shelter2 and the Ghillie Cape Hammock).

Like all our ghillies, it is featured with the Peripheral Visual Field – Hood System (PVF-HS), a system that allows for a full field of view, which can be implemented by adjusting cords near the eyes and the back of the head.

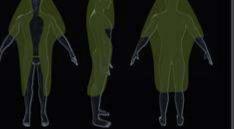
It weighs between 300g-800g. Due to its extreme packability, it can even fit inside a medical pouch if made in raffia.

It can double as a backpack cover or a wildlife-spotting net to conceal a camera and its operator.

MULTIPURPOSE GHILLIE CAPE SHELTER-2®



BODY COVERAGE



E / > FEATURES

- · WATERPROOF BASE
- · BREATHABLE BASE
- WEIGHT 500/1600 GR
- · DIMENSION 1.2×1.5 MT
- · MODULAR DESIGN
- · THERMAL CAMO
- IR COLOURS

> USES

- · STALKING SHELTER · SUSPENDED HUT
- · STEALTH HIKING
- · STEALTH CAMPING
- · MILITARY OPS.
- · ANTIPOACHING
 - HUNTING/FISHING

DESCRIPTION

A larger version of Cape Shelter 1, the Shelter 2 is 1.50 m x 1.20 m, with the same uses and features of Shelter 1, except it also covers the upper arms and thighs.

It can serve as a small hammock. Shelter 2 weighs 600 g (rafia version) and 1200 g (jute version). It's often chosen by army snipers due to its versatility and the body area it covers. During movements, this Ghillie can be easily placed over large backpacks and provide coverage of the head and shoulders. While on static operations it serve to cover trench lines entrances, or as a see-through blind for sniper hides. Alternatively, it can be worn covering also the sniper weapon system.

Multiple Multipurpose Ghillie Cape Shelter 2LL can be combined together as to cover vehicles and observation posts. Also, the shelter 2 can be combined with shelters 1 and multipurpose ghillie cape hammocks.

MULTIPURPOSE GHILLIE CAPE HAMMOCK®



BODY COVERAGE

ERAGE / > FEATURES

- · WATERPROOF BASE
- · BREATHABLE BASE
- WEIGHT 0.9/2.5 ка
- · DIMENSION 1.5×3 MT
- · MODULAR DESIGN
- · THERMAL CAMO
- IR COLOURS

> USES

- STALKING SHELTER
 SUSPENDED HUT
 HAMMOCK
- · STEALTH HIKING
- · STEALTH CAMPING
- · MILITARY OPS.
- · HUNTING

DESCRIPTION

A Multipurpose Ghillie designed for longdistance expeditions spanning over multiple days. This device offers full concealment of the body + a large backpack (40-70L).

It weighs 1100g (rafia version) or 2300g (jute version). It can be compressed to the size of a large sleeping bag (approximately 60x40x30cm).

This Ghillie conceals you and your backpack at all times, whether you are on the move during the day or camped down at night. The Ghillie Cape Hammock is a wearable concealed sleeping system, converting into a Camouflaged Ghillie Hammock to sleep in.

It can also convert into a spotting shelter or a suspended platform, and function as an emergency stretcher or to transport hunted game.



GHILLIE BASES

BEYOND THE USE OF TEXTILE FABRIC

GHILLIE BASES

By avoiding the use of fabric, these bases sort out the main issue related to ghillie suit uses.

This new concept eliminates the common problems of overheating, cumbersomeness and discomfort with its advanced lightweight and highly breathable design.

These bases enable full maneuverability, high packability while being easily adaptable to various individual configurations.

weight ranging from 170gr to 500gr (full-body)



MAIN FEATURES

- NIR COMPLIANT

- FLAME RETARDANT

- MOLLE COMPATIBLE

- FULLY WATERPROOF

- HIGHLY BREATHABLE

- HIGH PACKABILITY

VIS NIR

each mesh can hold up to 55kg of direct traction

ADDITIONAL FEATURES

The whole base structure enables to apply 3D camouflage and vegetation in any part of the base without being restricted to specific body portion as it was with convectional ghillie suits.

The design is fully adjustable according to individual and operational needs or different sizing.

Versatility and Modular Design. Extension, sleeves and face covers can be added and removed easily.

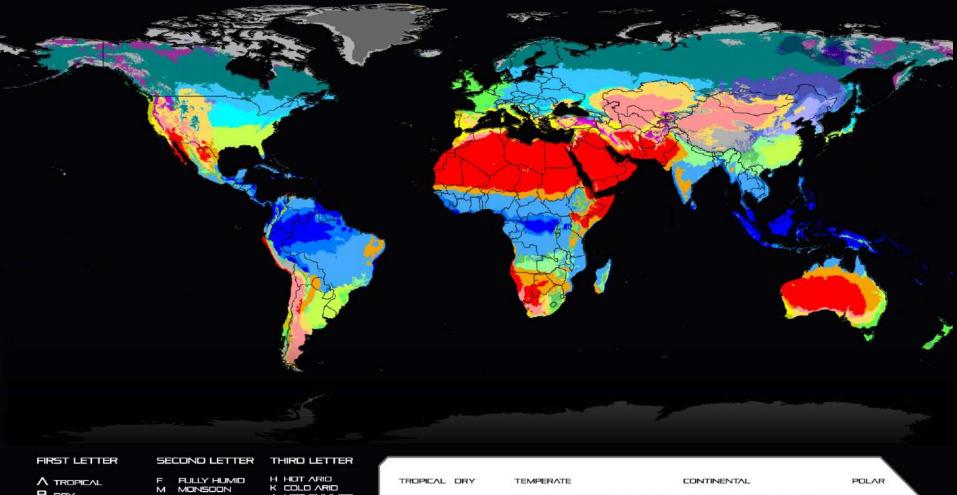


... APPLY 3D CAMOUFLAGE AND VEGETATION IN ANY PART OF THE BASE...

STANDARDIZED 30 GHILLIE PATTERNS VIS - NIR

A SCIENCE-BASED APPROACH

KOPPEN AND GEIGER CLIMATE CLASSIFICATION



Our ghillies can be produced in a variety of standardized patterns we developed (a total of **19 3D patterns**), which were designed on the basis of environment types defined by the **worldwide mapping of climates and biomes** by Koppen and Geiger.

The standardized Ghillie patterns ensure great effectiveness in their intended environment while being as versatile as possible. Each of the 9 ProApto Ghillie models and Thermal camouflage can be produced in these standardised Ghillie patterns.

All 3D patters can be implemented with natural vegetation or additional 3D material.

A TROPICAL
B DRY
C MILD TEMPERATE
D CONTINENTAL
E POLAR

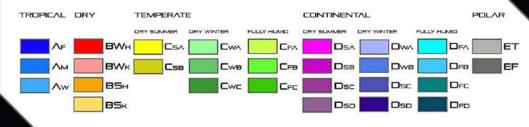
	F	FULLY HUMID	н	HUIARIU
	M	MONSOON		COLD ARID
	5	DRY SUMMER		HOT SUM
PERATE	W	DRY WINTER		WARM SU
	14/	DESERT		COOL SUN
TAL				COLD SUN
	S	STEPPE		
	T	TUNDRA		
	F	FROST		

IMER

MER

MER

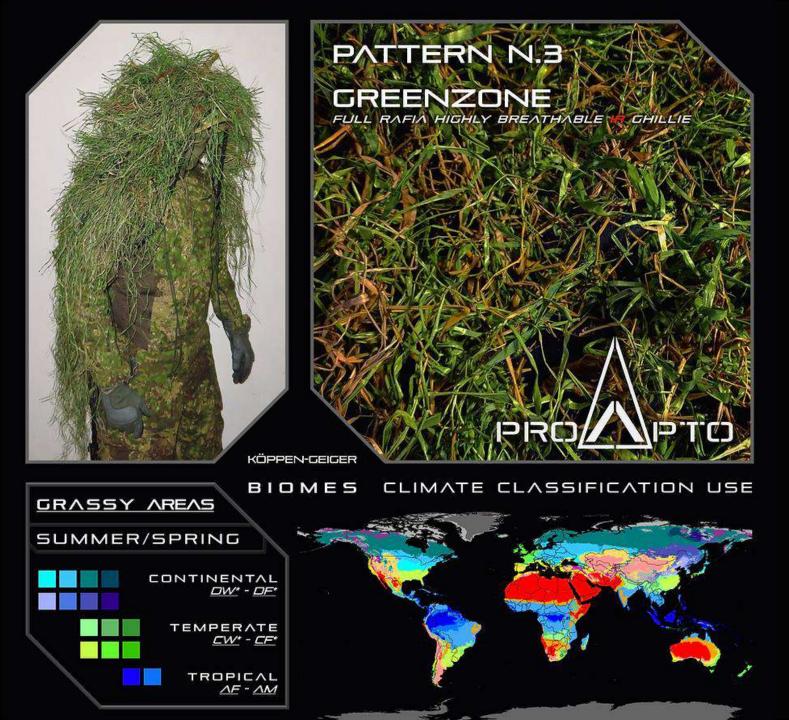
BECK, H., ZIMMERIMANN, N., MCVICAR, T. ET AL., PRESENT AND FLITURE KÖPPEN-GEIGER CLIMATE CLASSIFICATION MAPS AT 1-KM RESOLUTION: SCI DATA 5, 180214 (2018). https://doi.org/038504/200281



GREENZONE

FULLY-HUMID ENVIRONMENTS

TROPICAL FORESTS OR ALPINE GRASSY MEADOWS



Inspired by the PenCott Camouflage GreenZone pattern, we developed the Greenzone for green areas such as mountain fir woods, meadows, northern forests and mountain ridges in summertime.

It is a **specific**, continental pattern and it can be integrated with any of our camouflage fibres. Despite the intense green colouring, it adapts well to broad-leaved woods and to the autumn season. Greenzone is made using only raffia in order to blend effectively in lush grassy regions.

In tropical and fully humid hot environments, it finds the right placement thanks to the high breathability provided by raffia on our Ghillie bases. In addition, raffia is highly lightweight and retains less water than jute, cotton and other synthetic fabrics, therefore it is suitable to being used in tropical biomes.

Its NIR reflectance is consistent with green vegetation.

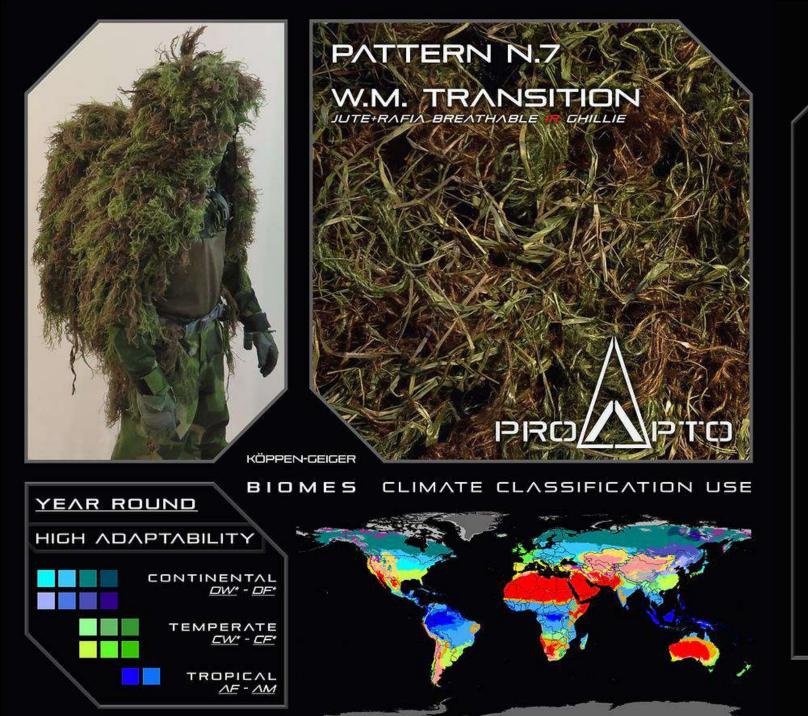
TRANSITION

TEMPERATE AND CONTINENTAL ENVIRONMENTS

Contraction of the Contraction of the Contraction

A CARDON

TRANSITING FROM THE WOODS TO THE MOUNTAINS



Transition is a highly versatile and adaptable jute-based pattern developed specifically for a mountain environment, whether it be woods or ridgetops.

This pattern accounts for habitat transitions during military operations or hunting expeditions. It is extremely effective at different latitudes.

The baseline is most effective in the woods and on high-altitude mountain ridges approximately 2000 meters above sea level.

Its use is most appropriate in coniferous forests, peatlands and high mountain valleys.

Its NIR reflectance is consistent with green vegetation and moss.

LAGOON

K.

FROM TROPICAL TO CONTINENTAL ENVIRONMENTS

FULLY WATERPROOF BREATHABLE





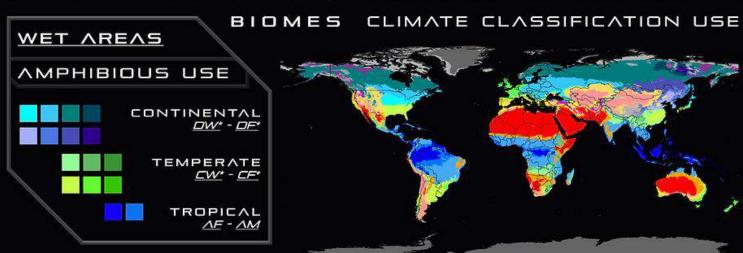
PATTERN N.17

GOON

LLY WATERPROOF AND BREATHABLE GHILL



COPPEN-GEIGER



Lagoon is a versatile pattern developed specifically for amphibious use. It is a fully waterproof and fully breathable multispectral IR Ghillie Suit designed for underwater and transitional operations where staying dry is required.

This pattern offers a proper baseline camouflage for both woods and mountain environments and for marine and lagoon areas. With this pattern, special forces operators can transit rapidly across environments, still maintaining shape disruption and the effectiveness of a Ghillie Suit.

It is extremely lightweight (700g Stalking-Hood + back extension) and it offers good reduction of thermal signature.

Its NIR reflectance is consistent with green vegetation.

BROAD-LEAVED

BROAD-LEAVED DECIDUOUS ENVIRONMENTS + URBAN



FULLY WATERPROOF BREATHABLE



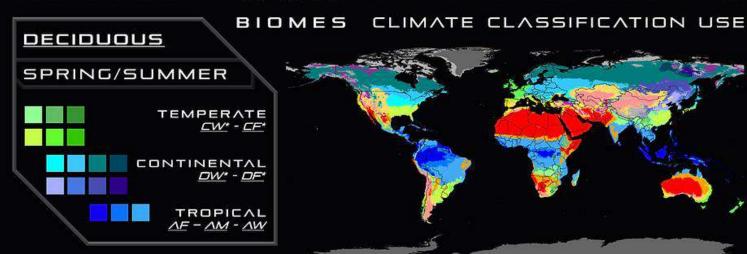
PATTERN N.9

B.D. WOODLAND

PRO/

\I>.L.C)

KÖPPEN-GEIGER



Despite the fact that B.L. Woodland is a highly specific pattern designed for broad-leaved woodlands in the spring and summer months, the baseline also works extremely well during winter, thanks to the ivy and oak shades of WIRC fabric.

B.L. Woodland is a fully waterproof and breathable leafsuit, NIR-compliant under both active and passive IR systems. It's particularly lightweight: the Ghillie suit in the photo weighs 650g. A further advantage is its reduced propensity to getting caught in bushes and vegetation compared to cotton and mesh fabric, and its permanent 3D depth effect.

It is also effectively used in urban environment, around green areas and residential neighbourhood for various activities...

Its NIR reflectance is consistent with green vegetation.



HOT-DRY / COLD-DRY ENVIRONMENTS

TAL

WINTER WOODS OR ROCKY DESERTS



CONTINENTAL

TEMPERATE

05

PATTERN N.1

FULL RAFIA HIGHLY BREATHABLE W GHILLIE

CLIMATE CLASSIFICATION USE

The Arid pattern is a base pattern **specific** for arid and dry environments. The first version was developed with natural jute and shades of reddish sisal with addition of brown raffia. In a second instance, we came up with the raffia version, which is lighter and more breathable.

This version is more suitable for hot areas and seasons. Like the Greenzone pattern, the Ghillie is made in raffia, so it is highly breathable and does not retain water unlike many other materials and fabrics, therefore the use in hot and/or wet and rainy environment is suggested (for example, dry and cold autumns in continental climates or arid deserts in the Middle-East).

Its NIR reflectance is darker than green vegetation.

MULTIBIOME

TEMPERATE AND CONTINENTAL ENVIRONMENTS

WHEN THE HIGHEST BASELINE ADAPTABILITY IS NEEDED



PATTERN N.10

M.T. 27 JUTE+RAFIA BREATHABLE IR GHILLIE

KÖPPEN-GEIGEF

BIOMES

YEAR ROUND HIGH ADAPTABILITY CONTINENTAL D5* - DW* TEMPERATE CW* - CF DRY BWK - BSK

DRM CLIMATE CLASSIFICATION USE

Multibiome is a highly versatile and adaptable jute-based pattern. It is essentially a Multiland pattern featuring the mid-range brown of Transition, making it the intermediate option between Multiland (light) and Transition (dark).

Pattern Multibiome is composed of the three universal colours of natural camouflage: tan, mid-range brown and olive green.

It's designed for habitat transitions and for adaptability to several environments and seasons, making it a reliable, versatile choice for temperate environments.

Its NIR reflectance is between bare ground and green vegetation.

LATENS

WHEN LOW WEIGHT AND WATERPROOFNESS ARE NEEDED

TEMPERATE AND CONTINENTAL ENVIRONMENTS



PATTERN N.19

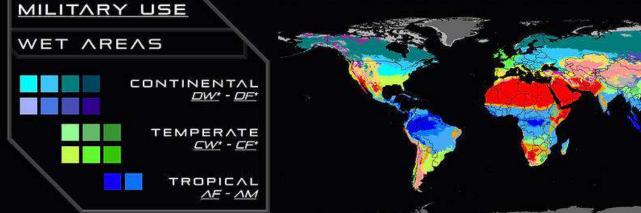
WATERPROOF BREATHABLE IR GHILLIE

KÖPPEN-GEIGEF

BIOMES CLIMATE CLASSIFICATION USE

PRO

D'T'C



Pattern n.19 LATENS is a lightweight, highly breathable and waterproof VIS-NIR Ghillie developed primarily for military use.

It is based on a polyester alloy which guarantees 3D effect and greater resistance to weather elements. It can interact with other individual camouflage from other producers enhancing their effectiveness in the VIS, NIR and TIR spectrum.

In the same way it can be combined with our thermal camouflage and with thermal camouflage from other companies without affecting the mechanisms of action and adding 3D multispectral component while enabling to securely add vegetation to the system.

Its NIR reflectance is lower than green vegetation, it matches bark and bare ground.

BELLICUS

HOT-DRY / COLD-DRY / DESERTIC ENVIRONMENTS + URBAN

A LIGHTWEIGHT SYSTEM FOR HYBRID AND ASYMMETRICAL USES



EMPERATE

Pattern n.18 BELLICUS is our version of th Crye Assault Ghillie with an improved concept of versatility and durability.

Pattern n.18 is a lightweight, highly breathable and waterproof VIS-NIR Ghillie developed primarily for military use. It is based on a polyester alloy which guarantees 3D effect and greater resistance to weather elements.

It can be combined with our thermal camouflage and with thermal camouflage from other companies without affecting the mechanisms of action and adding 3D multispectral component while enabling to securely add vegetation to the system.

Its NIR reflectance is lower than green vegetation, it matches bark and bare ground

OTHER STANDARDIZED GHILLIE PATTERNS



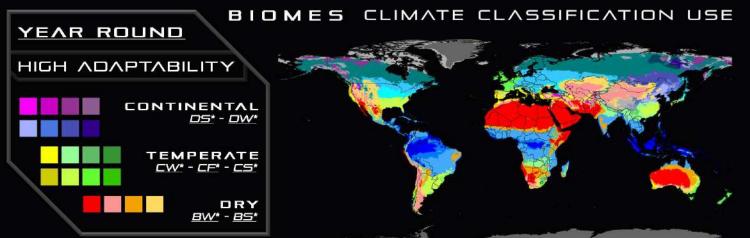
MULTILAND

JUTE+RAFFIA BREATHABLE NIR GHILLIE

This highly versatile pattern is suited for several environment types, from arid fields to wooded and mountainous areas, and adapts well to every season.

In rich green surroundings, achieving a good degree of concealment will require the addition of a fair amount of mud or vegetation, particularly in the Northern hemisphere, where the baseline is most exposed.

Multiland is best suited for temperate and arid environments. It is based on jute and rafia but a full raffia version is available on demand.



SNOW

FULLY WATERPROOF AND BREATHABLE

KÖPPEN-GEIGER

BIOMES CLIMATE CLASSIFICATION USE

This pattern is highly specific, designed with snowy, alpine and arctic regions in mind. It is fully waterproof and breathable and does not feature either jute nor raffia, as these fibres tend to dampen and freeze in icy temperatures, increasing the Ghillie suit's weight. Even so, the Snow pattern can be integrated with any of our camouflage fibres.

Pattern Two-colours Snow is a variation of this pattern, with added green WIRC fabric, in order to blend in patchy snowy areas and snowy woods. These Ghillie patterns disrupt the human silhouette on white backdrops and snowy ridges.

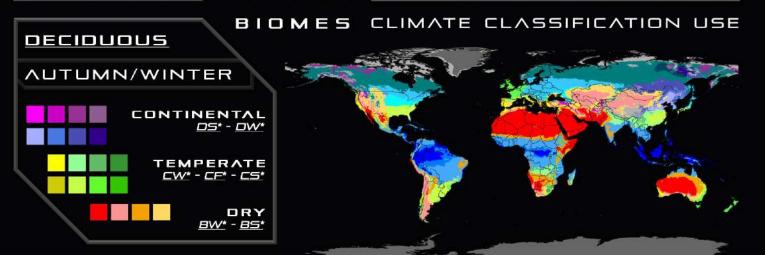


REALTREE XTRA

FULLY WATERPROOF AND BREATHABLE



KÖPPEN-GEIGER



Realtree Xtra is a highly specific pattern ideal for broad-leaved woods, particularly during the autumn and winter seasons.

It's made of strips of Realtree Xtra waterproof fabric, with added wide strands of raffia that perfectly reproduce the typical mid-range colour of autumn foliage.

Realtree is popular with deer and turkey hunters for its waterproof properties and stronger odour-resistance compared to jute or raffia.

APTO QUADEAM AD NATURAM

NIR EFFECTIVENESS

JUTE BASED PATTERNS NIR EFFECTIVENESS

JUTE BASED PATTERNS NIR EFFECTIVENESS

THE STATE OF ART OF 3D NIR CAMOUFLAGE...







JUTE BASED PATTERN

RAFIA BASED PATTERNS NIR EFFECTIVENESS

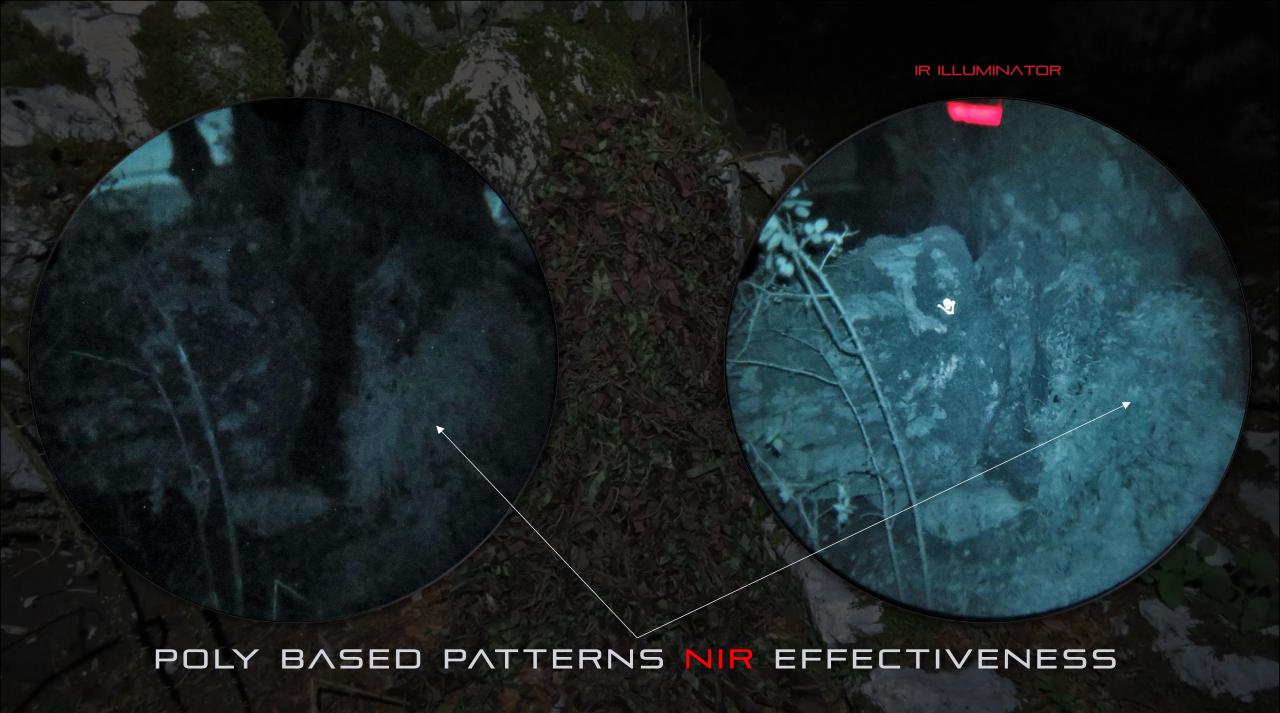


RAFIA BASED PATTERNS NIR EFFECTIVENESS

POLY BASED PATTERNS NIR EFFECTIVENESS

POLY BASED PATTERNS NIR EFFECTIVENESS

POLY BASED PATTERNS NIR EFFECTIVENESS





20 CAMOUFLAGE PATTERNS

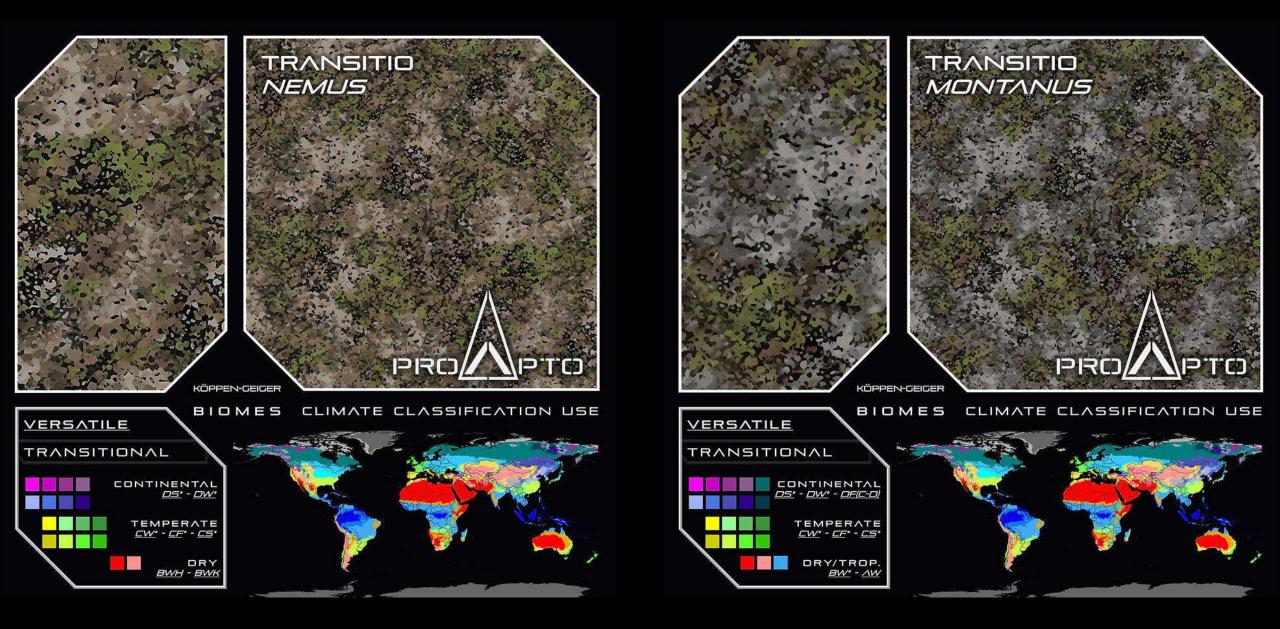
SCALABLE PATTERNS

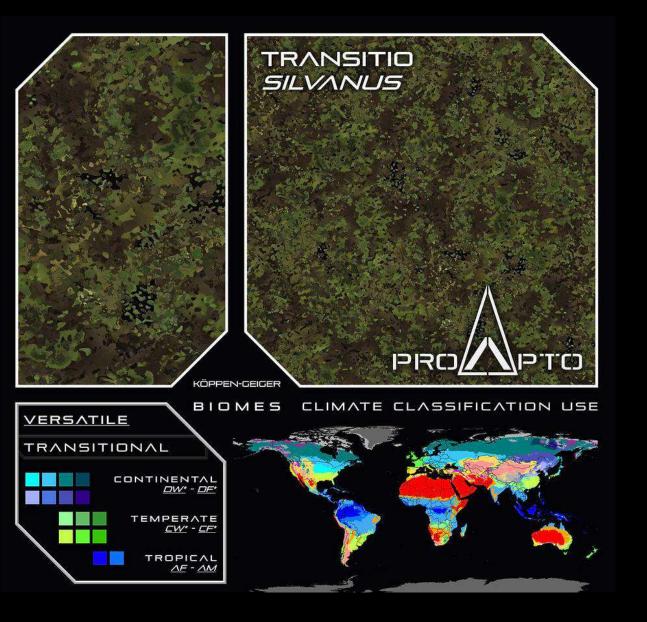
Our 2D patterns are an additional option to the oversaturated field of 2D camo design. Our 2D patterns cover the vast majority of the Biomes of the Globe and at the moment are divided in 2 main families: Transitio and Exitium. Our 2D patterns are designed to disrupt human body, but they can be scaled to cover objects, vehicles and buildings. Our 2D patterns are designed to synergically work together on macro scales (vehicles/building), namely, patterns of the same family can be composed to create a meta-macro pattern.



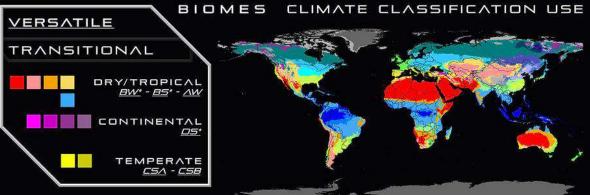
TRANSITIO

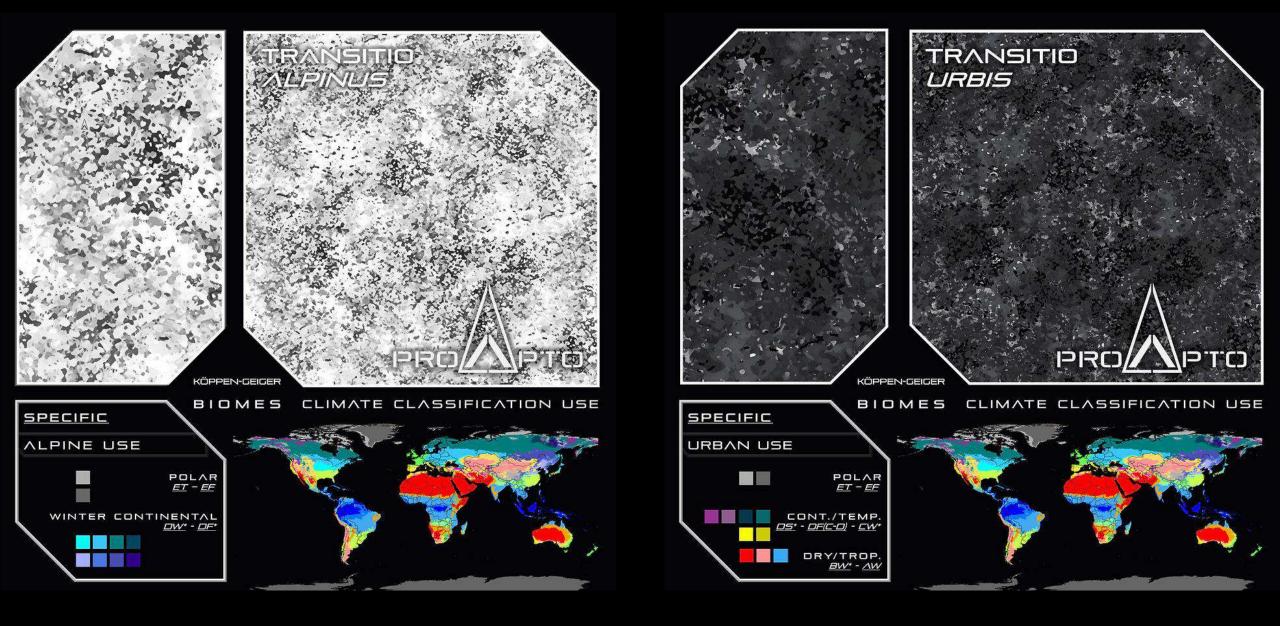
The Transitio family (from Ancient Latin meaning "transition" -transitio, transitionis) is designed to be used in nature away from human artifacts and is both suitable for military and hunting/photography. It includes a total of 7 camo patterns.





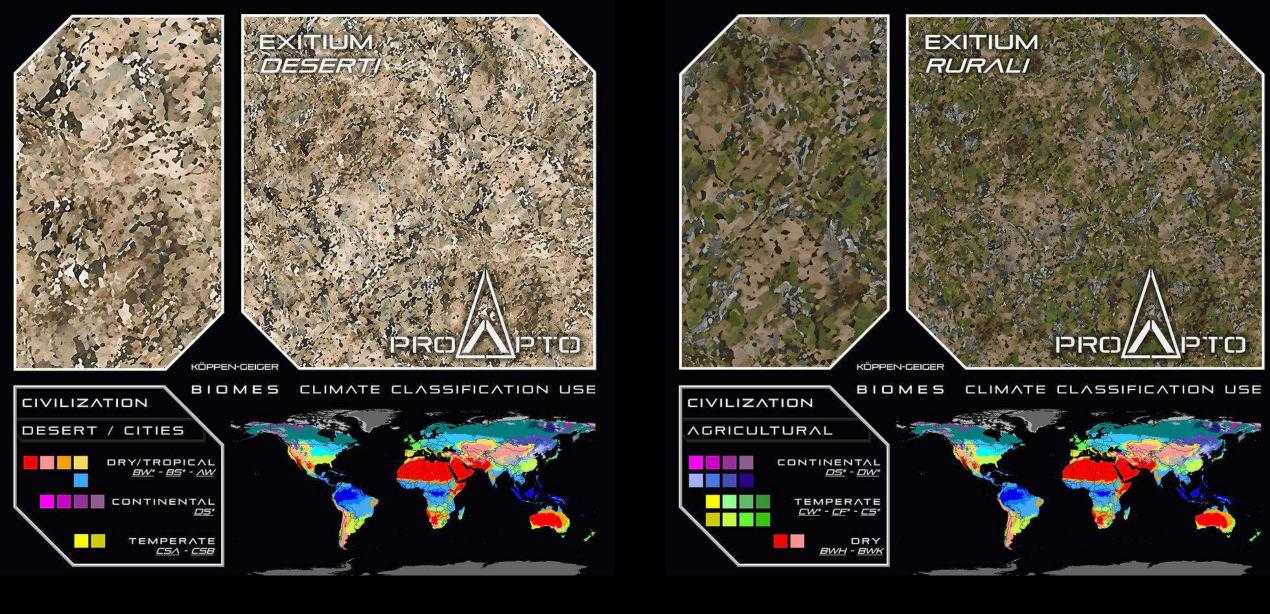


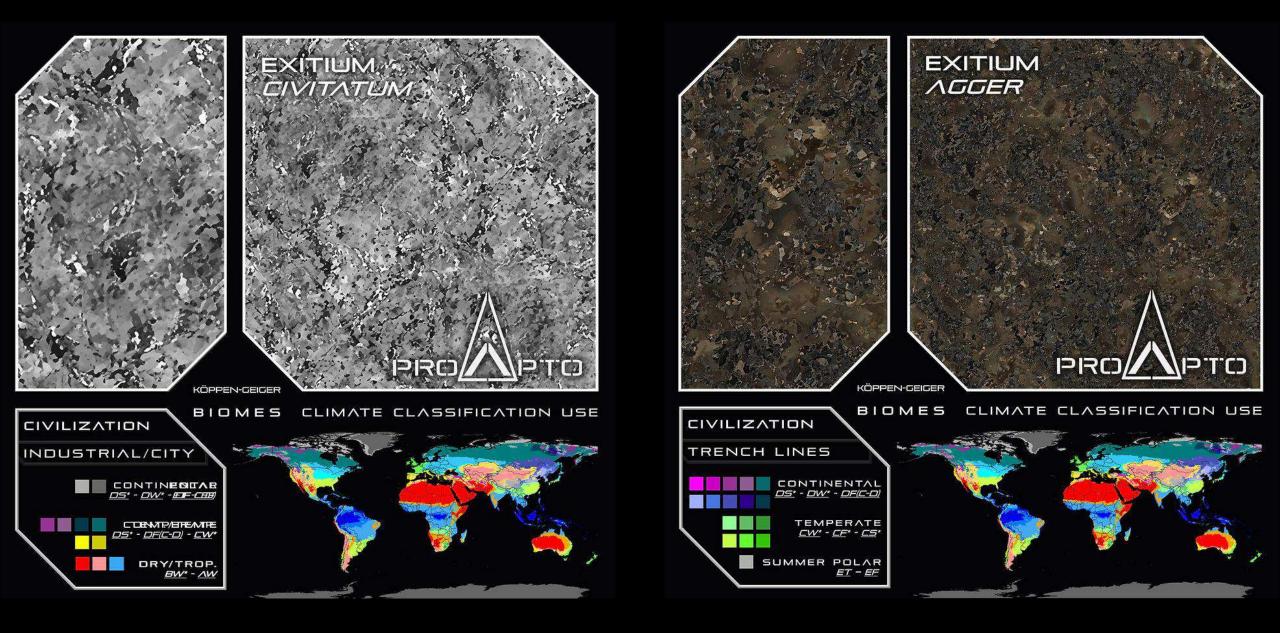


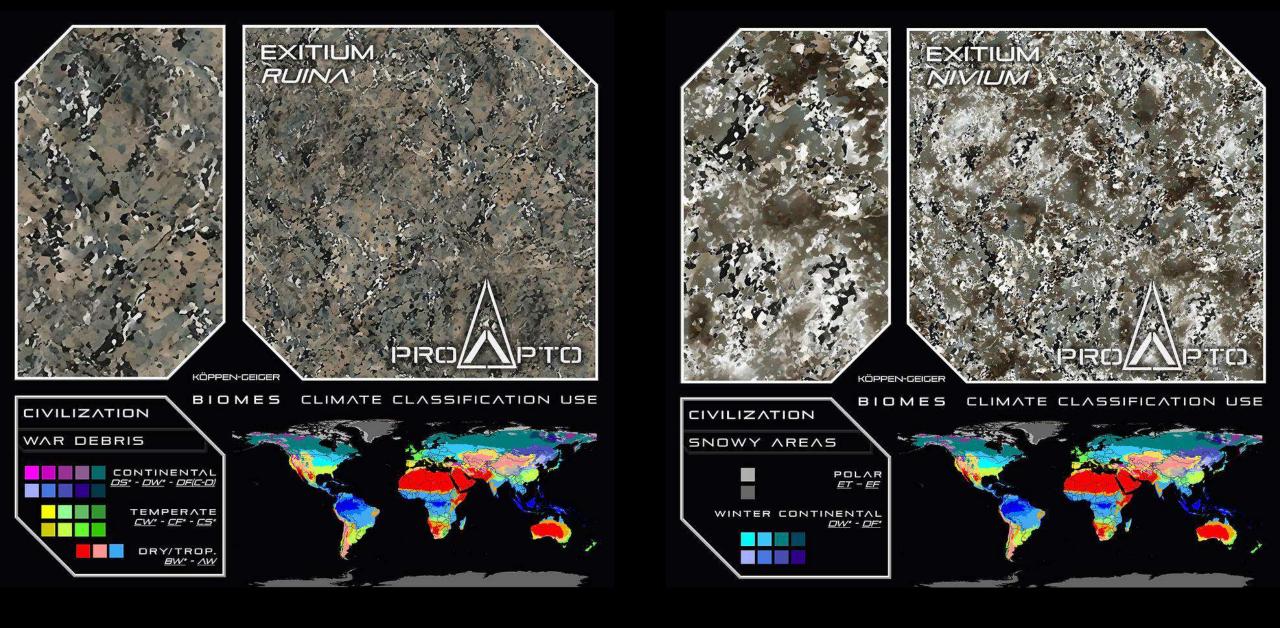


EXTLIN

The Exitium family (from Ancient Latin meaning "doom/destruction/ruin/death" exĭtĭum, exĭtĭi) is designed to be used in war scenario/aftermath and in region with human artifacts. It includes a total of 11 camo patterns.











ABOUT PROAPTO AND ITS NETWORK

ProApto is a registered Italian trademark founded in 2015, and its personnel comprises neuroscientists, software engineers, graphic designers, former military officers, and uniquely trained artisans who are the driving force behind its innovative products. In 2023, ProApto patented individual multispectral camouflage across over 30 counties. ProApto is the first company to develop standardized three-dimensional camouflage patterns based on the Köppen and Geiger climate classification. Currently, ProApto offers 19 3D camouflage patterns and 16 2D camouflage patterns covering all biomes worldwide ProApto is commercialised by Synaptron (https://synaptron.it/en/).

Email: <u>proaptohm@gmail.com</u> / <u>ProApto@proton.me</u> Website: <u>https://www.proapto-camouflage.com/about-us</u> Youtube: <u>https://www.youtube.com/@ProApto/</u>



Synaptron

