GO THERMAL
INNOVATIVE SENSING SOLUTIONS

Trilobyte Helmet Light Gen5 ™
Programmable Beacon, 2 overt colors + NIR and SWIR

2.5oz (72g) w/ Battery   *TAN Model Shown*

1.28" (3.25cm)
2.21" (5.6cm)
3.24" (8.2cm)

PRODUCT NUMBER: 02905-1

SWIR AVAILABLE IN:

1550nm   P/N: 02905-1-1550

1064nm P/N: 02905-1-1064

TECHNICAL SPECIFICATIONS

BATTERY SOURCE	One (1) AA Lithium (1.65Vdc), AA Alkaline (1.5Vdc) or AA Rechargeable.
ATTACHMENT METHOD	3M Dual Lock (Installed on Base of Unit)
HOUSING COLORS AVAILABLE	Black or Tan (add -TAN for Tan)
HOUSING MATERIAL	High Impact Lens with Shock Absorbing Polymer Base
HOUSING FINISH	Matte
DOME LENS MATERIAL	High Impact Polycarbonate (Textured)
OPERATING TEMPERATURE	-40 to +65°C with AA Lithium; -20 to +65°C with Alkaline
STORAGE TEMPERATURE	-40 to +65°C with AA Lithium; -20 to +65°C with Alkaline
ENVIRONMENTAL SEAL	Hermetically Sealed Unit with Removable Battery Cap
WATERPROOF, DUST RATING	IP 68 - 100m / 330ft
VISIBILITY RANGE	Up to 5km on High Intensity (Visual or Near IR) on a clear dark night (with no moon or contrasting backlighting)

FEATURES

- A wide range of functions organized in a user friendly, intuitive system; designed for one-hand operation with index finger and thumb.
- Synchronized group flashing with AutoSync Technology
- Dual Button Polarity Program Switching® Separates IR, Visual and Programming modes.
- User programmable flashing signatures with no extra tools needed using Mockingbird® Technology
- Can send and receive programmed flashing signatures to other Trilobytes of the same model, enabling individual groups of unique flashing signatures.
- Sophisticated IR Detect Mode accessible from the Trilobyte's Programming Mode function set.
- Raised position nubs for positive tactile feedback and sequential vibrating pulses to indicate position with MultiVibe Technology
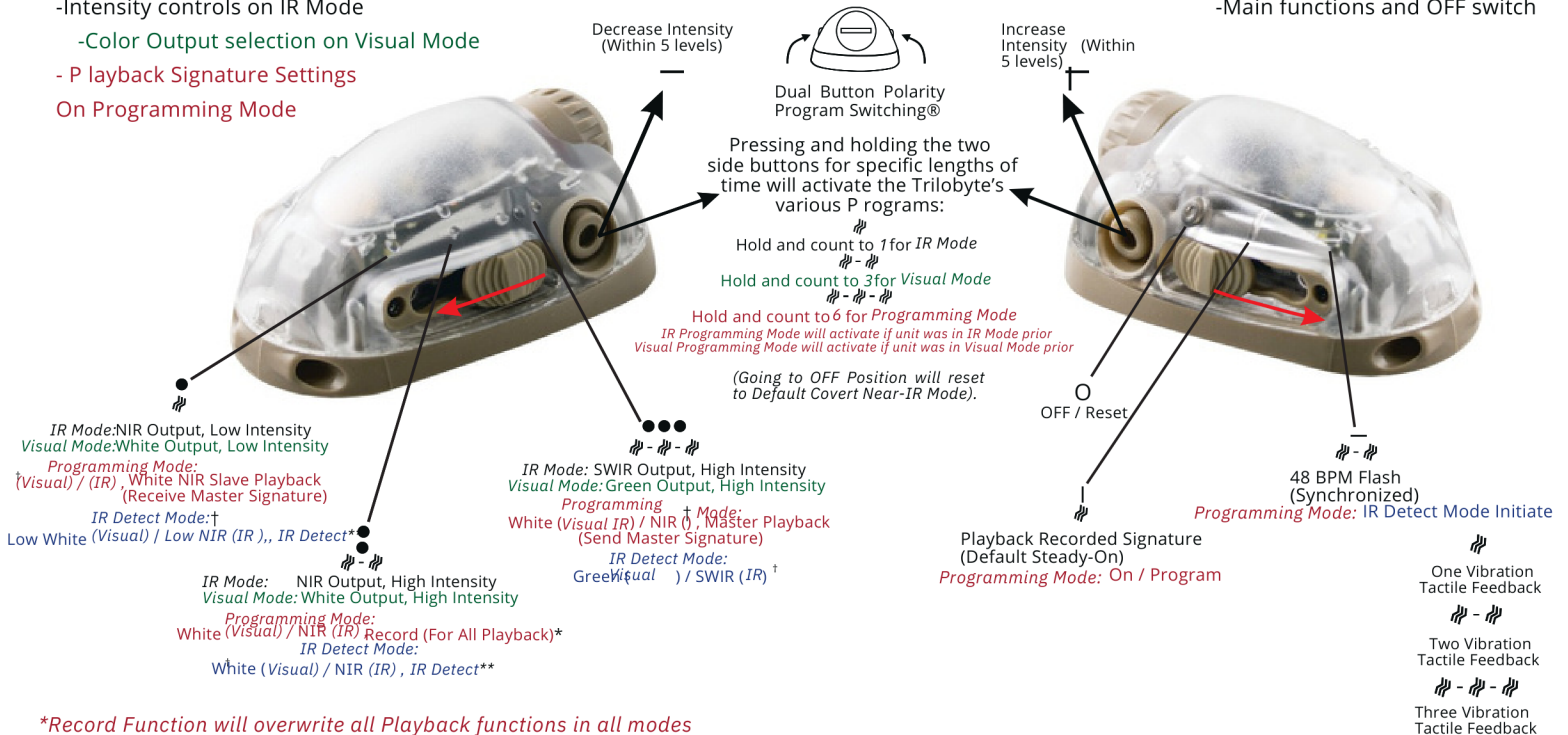
Functions Diagram

Left-Side Positions

-Intensity controls on IR Mode

-Color Output selection on Visual Mode

- P layback Signature Settings

On Programming Mode

Decrease Intensity
(Within 5 levels)

Dual Button Polarity Program Switching®

Pressing and holding the two side buttons for specific lengths of time will activate the Trilobyte's various P rograms:

Hold and count to *1* for *IR Mode*

Hold and count to *3* for *Visual Mode*

Hold and count to *6* for *Programming Mode*
IR Programming Mode will activate if unit was in IR Mode prior
Visual Programming Mode will activate if unit was in Visual Mode prior

(Going to OFF Position will reset to Default Covert Near-IR Mode).

Right-Side Settings
O I —

-Main functions and OFF switch

Increase Intensity (Within 5 levels)

IR Mode: NIR Output, Low Intensity
Visual Mode: White Output, Low Intensity
Programming Mode:
(*Visual*) / (*IR*) , White NIR Slave Playback (Receive Master Signature)
IR Detect Mode: †
Low White (*Visual*) / Low NIR (*IR*) ,, IR Detect*

IR Mode: SWIR Output, High Intensity
Visual Mode: Green Output, High Intensity
Programming Mode: †
White (*Visual IR*) / NIR (), Master Playback (Send Master Signature)
IR Detect Mode:
Green (*Visual*) / SWIR (*IR*) †

IR Mode: NIR Output, High Intensity
Visual Mode: White Output, High Intensity
Programming Mode:
White (*Visual*) / NIR (*IR*) Record (For All Playback)*
IR Detect Mode:
White (*Visual*) / NIR (*IR*) , IR Detect**

O
OFF / Reset

I

Playback Recorded Signature
(Default Steady-On)
Programming Mode: On / Program

—
48 BPM Flash (Synchronized)
Programming Mode: IR Detect Mode Initiate

One Vibration Tactile Feedback

Two Vibration Tactile Feedback

Three Vibration Tactile Feedback

*Record Function will overwrite all Playback functions in all modes

* * IR Detect Function: Product will vibrate 5 times and flash in position-specific wavelength for 5 seconds when exposed to a Near-IR Wavelength

†*Output wavelength for functions in Programming Mode (and sub-set IR Detect Mode) are dependent on whether the Trilobyte is set to Visual (Overt) or IR (Covert) versions of Programming Mode. This is dependent on whether or not the Trilobyte was in IR or Visual Mode prior to Programming Mode activation.*

Specifications subject to change without prior notice

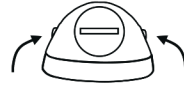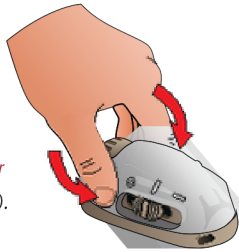# Functions Table

CHANGING MODES

Hold and count to *1* then release for *Near-IR*
Hold and count to *3 then release* for *Mode   Visual*
Hold and count to *6* then release for *Programming Mode*
IR Programming Mode will activate if unit was in IR Mode prior
Visual Programming Mode will activate if unit was in Visual Mode prior

(Going to OFF Setting will reset to Default Covert Near-IR Mode).

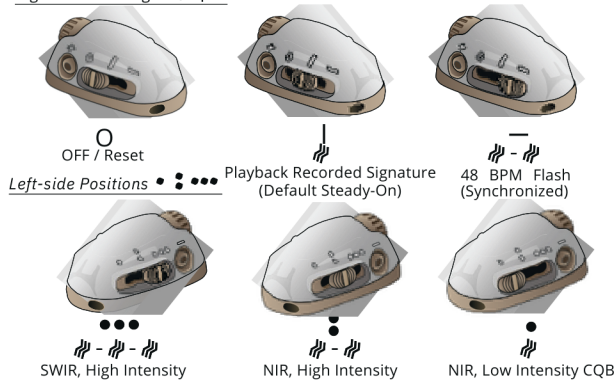Dual Button Polarity Program Switching®

Pressing and holding the two side buttons for specific lengths of time will activate the Trilobyte's various Modes.

Each Mode contains its own set of functions that are toggled through the dual left-side and right-side control switches.

Near-IR Mode Functions
(Hold down side buttons (+) and (-), count to 1 then release. Default Mode on activation)
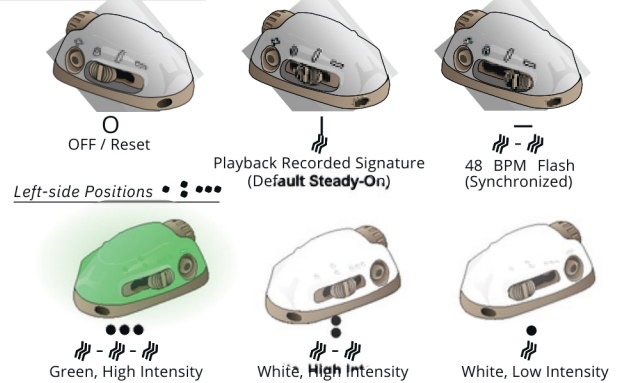
Right-Side Settings   O | —

O
OFF / Reset

Playback Recorded Signature
(Default Steady-On)

48 BPM Flash
(Synchronized)

Left-side Positions ● ⋮ ●●●

SWIR, High Intensity

NIR, High Intensity

NIR, Low Intensity CQB

Visual Mode Functions
(Hold down side buttons (+) and (-), count to 3 then release)

Right-Side Settings   O | —

O
OFF / Reset

Playback Recorded Signature
(Default Steady-On)

48 BPM Flash
(Synchronized)

Left-side Positions ● ⋮ ●●●
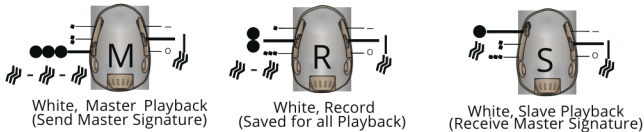
Green, High Intensity

White, High Intensity

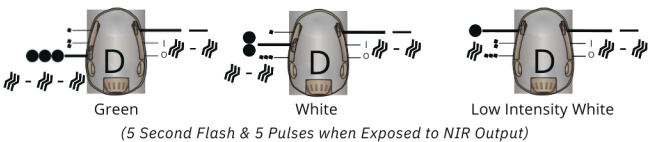White, Low Intensity

Visual Programming Mode Functions
(From Visual Mode, hold down side buttons (+) and (-), count to 6 then release)
Note: Record Function will overwrite all Playback functions in all modes

M
White, Master Playback
(Send Master Signature)

R
White, Record
(Saved for all Playback)

S
White, Slave Playback
(Receive Master Signature)

IR Detect Mode (Visual Playback)
Initiated by moving Right-Side Control Switch to (-) setting on Visual Programming Mode

D
Green

D
White

D
Low Intensity White

(5 Second Flash & 5 Pulses when Exposed to NIR Output)

NIR Programming Mode Functions
(From IR Mode, Hold down side buttons (+) and (-), count to 6 then release)
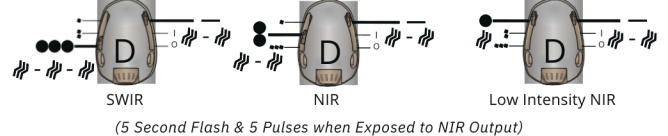*Note: Record Function will overwrite all Playback functions in all modes*

M
NIR, Master Playback
(Send Master Signature)

R
NIR, Record
(Saved for all Playback)

S
NIR, Slave Playback
(Receive Master Signature)

IR Detect Mode (Covert Playback)
Initiated by moving Right-Side Control Switch to (-) setting on NIR Programming Mode

D
SWIR

D
NIR

D
Low Intensity NIR

(5 Second Flash & 5 Pulses when Exposed to NIR Output)

Accessories *(Sold Separately)*

Turtle Mount
Part Number: M0492-15
(Add -1 for Black)

Feature rich with ports to connect to our *Universal Mount™*, MOLLE compatibility for attaching to vests, backpacks, etc... cavities for securing with nails or screws and a quick release nub.

MOLLE Pouch
Part Number: 99002(Tan)
(Add -1 for Green; -2 for Black)

Our modular pouches with rear lash points, exterior and interior loop surfaces, inside pocket and a quick release strap can securely hold the Trilobyte™ and a spare battery, with leftover space if needed.

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Distributed by:

GoThermal (Pty) Ltd | TeleEye (SA) (Pty) Ltd

Unit 9, 4 Homestead Avenue,
Bryanston, 2191, SA

+27 11 557 9200
Sales@GoThermal.co.za