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https://docs.diver-x.jp/contact-track

Starter Kit

https://docs.diver-x.jp/contact-track/starter-kit

Introduction

https://docs.diver-x.jp/contact-track/starter-kit/getting-started

Included Items

2 ContactTrack Cameras

2 ContactTrack Trackers

1 Space Calibration Unit (SCU)

2 USB Type-A to Type-C cables

2 Straps

2 Camera Stands

Included Items (without Strap/Base)

2 ContactTrack Cameras

2 ContactTrack Trackers

1 Space Calibration Unit (SCU)

2 USB Type-A to Type-C cables

Operating Environment

Supported OS: Windows 10 / Windows 11

Required Software: DivingStation (install via link below)

USB Ports: USB Type-A (2.0 or higher) — one port per camera used

Connect directly to the PC without hubs

Front USB ports on desktop PCs are not recommended

USB 2.0 hubs may not work properly

Self-powered USB 3.x hubs are recommended

Ensure sufficient space for camera installation and play area

For VR usage: SteamVR and a compatible HMD are required

Wireless Communication

May be affected by other 2.4 GHz devices (Wi-Fi, BLE, wireless mice/keyboards/HMDs/trackers/controllers, microwave ovens, etc.)

If communication is unstable, try:

Change Environment ID in DivingStation

Disable or distance Wi-Fi

Avoid placement near USB 3.x ports

Lighting Conditions

This product uses infrared illumination

Nearby infrared devices (remote controls, smart home appliances, etc.) may cause malfunctions

Do not install multiple ContactTrack systems within one IR field of view

Proper operation requires an unobstructed line of sight between camera and tracker

Safety Precautions

Do not expose to fire, submersion, or impact — risk of damage, electric shock, or burns

Avoid use, charging, or storage in high temperature, direct sunlight, or high humidity

Do not use near medical equipment or in hospitals

Contains lithium-ion polymer battery — do not disassemble or short terminals

Dispose according to local regulations

Stop use and contact us if abnormal heat or damage is observed

Do not modify or repair — contact manufacturer for service or battery replacement

IR LEDs emit non-laser IR light compliant with IEC 62471; avoid prolonged direct viewing within 15 cm

Use supplied USB cable for camera and tracker connections; do not pull forcefully or place heavy objects on cable

Clean with a soft cloth

Damage from misuse or unintended use is not covered by warranty

Refund policy: https://store.diver-x.jp/policies/refund-policy

Privacy

Cameras capture infrared-only images; no visible light

Video is processed in DivingStation and auto-deleted within seconds

No data is sent to other software or over the Internet

Camera power is off when DivingStation is not running

Component Names

Camera:

Front panel and lens (not visible to the naked eye)

USB Type-C connector

Tripod/mount screw hole (1/4■UNC)

Tracker:

Power button (short press to wake from sleep)

Long press 1–3 s: LED magenta, enters sleep mode upon release

Long press 3–8 s: LED cyan, clears pairing info and enters pairing mode upon release

Long press >8 s: LED red, shuts down upon release for long-term storage

Indicator LED (operation): blinking blue (pairing), green (paired, not connected), blue (connected), yellow (charging), blinking yellow (charge complete), blinking red (low battery), magenta/cyan/red/white for long-press modes and firmware update mode

Indicator LED (sleep/charging): off in sleep, slow yellow blink when charging, white when charge complete

Infrared LEDs (not visible to the naked eye)

USB Type-C connector

Mounting holes (M2 screws ×4)

Space Calibration Unit (SCU):

Mounting bracket

Reflective markers

Camera Stand:

Base

Mounting screw

Adjustable head

Usage Configuration Examples

1 Camera + 1 Tracker: Minimum setup

1 Camera + 2 Trackers: Maximum trackers per camera

2 Cameras + 4 Trackers

4 Cameras + 8 Trackers

For VR tracking via SteamVR, an additional Space Calibration Unit (SCU) is required

Camera Installation Procedure

Choose installation location: no obstacles within 30 cm in front of camera, maintain ≥30 cm from tracker, ensure full coverage, arrange multiple cameras at different angles

Connect USB cable to camera: with stand mount and adjust angle; without stand use 1/4■UNC screw hole with tripod or mount

Connect USB cable directly to PC (avoid hubs)

Precautions:

Avoid unstable placements to prevent falls

Ensure no tension on USB cable

Tracker and SCU Mounting

ContactTrack (Standard) Tracker Installation:

Fully charge tracker before use

Mount with strap to body or use mount with 1/4■UNC screw

Avoid unstable mounting to prevent falls

Space Calibration Unit (SCU) Installation:

Attach SCU to front upper area of HMD

Secure with provided tape

Software Installation & Initial Setup

Download DivingStation: https://docs.diver-x.jp/contact-track/software-setup

Run installer (.exe) and follow on-screen instructions

First Launch & Firmware Update

Install necessary drivers on first launch

Connect cameras and trackers via USB and update firmware as prompted

Pairing Cameras and Trackers

Set camera to pairing mode in DivingStation

Long-press tracker button to enter pairing mode

Pair one device at a time (no simultaneous pairing)

Tracker LED will blink blue; steady blue when recognized by software

Always pair trackers to "Camera 1" for spatial synchronization and identification

Camera Preview

Verify tracker appears in infrared preview

Adjust camera position if visibility is poor

DivingStation Operation

Menu: Recalculate light source mask; Recalculate spatial calibration

Tracker Info: view positions and statuses; ensure registration to "Camera 1"

Camera Feed Preview: confirm no obstructions or interference

VR Mode: enable/disable SteamVR driver integration

Tutorial & Guide: replay tutorial or access detailed guide via link

FCC Certification Information

FCC Warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure condition without restriction.