



# CATALOG SKIF

rb@skif.cc  
skif.cc

+38 050 020 48 10  
Viber / Telegram / WhatsApp

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The training system is developed, manufactured, and completed according to the technical specifications of the customer.

The equipment is certified and safe to use.

## How does it work?

All SKIF training systems are based on digital signal transmission technology. The electronic units are mounted on small arms or military equipment for a realistic simulation of firing.

Special sensors are used to record the conditional hit of soldiers and armored vehicles.

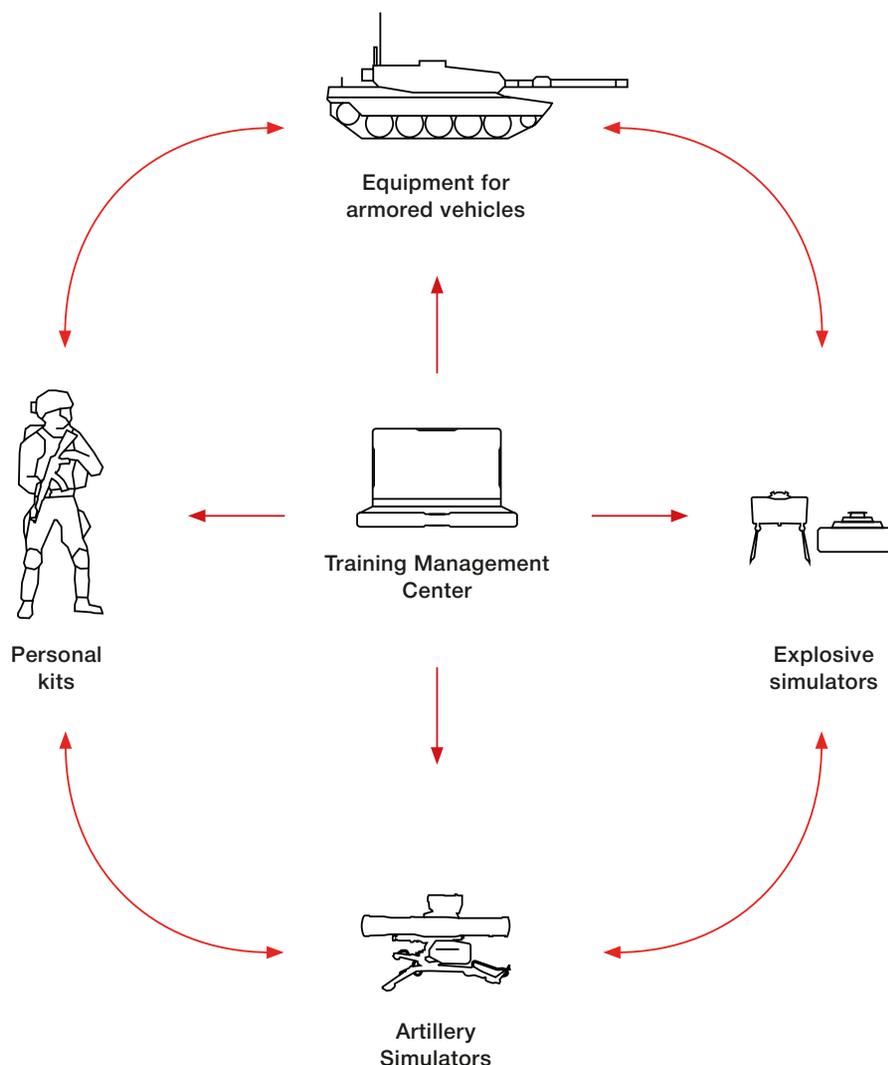
## A single system

All the equipment for the tactical training of soldiers interacts with each other and can be combined into a single complex for the simultaneous training of representatives of various types of troops.

Within the framework of one training scenario, the following types of troops can interact:

1. Infantrymen
2. Snipers
3. Tankmen
4. Artillerymen and mortar squads
5. Military engineers
6. Anti-aircraft gunners
7. And others that can be custom added

## A single complex



## A personal Kit for soldiers

During the training, all soldiers get a personal kit that includes:

1. A helmet case with hit sensors
2. A vest with hit sensors
3. A hinged laser emitter to attach to the weapon
4. «Dzhmil» Stress Belt

## Software

The software is installed on the provided tablet. It allows you to control and configure all the elements of the training complex. To manage large-scale training a central control center is used.

## Customization

Before training, you can set various equipment parameters, from the composition of the unit to the exact number of shots to defeat the target.



SKIF Case

SKIF Vest

A weapon with a SKIF emitter

SKIF stress belt

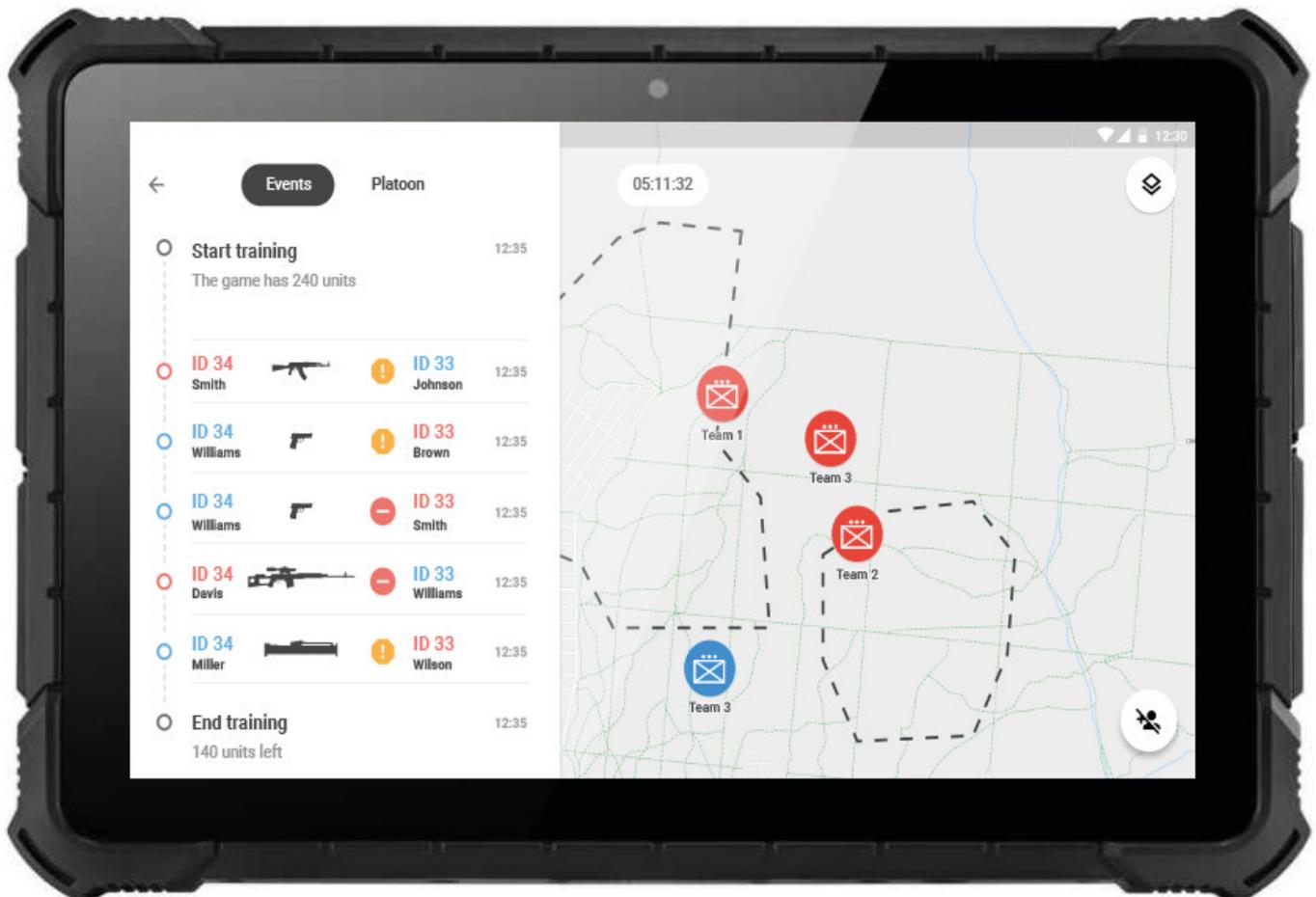
## Tracking the soldiers' actions

The personal statistics of each soldier participating in the training are recorded and displayed in the software. The indicators can be monitored in real-time or analyzed at the end of the training.

The software reflects:

- The number of shots
- The number of hits at conditional opponents
- Soldiers movement on the ground
- The degree of conditional injury
- Other options that can be included upon request.

Thus, you can get an objective assessment of the level of training of each soldier, and the effectiveness of the unit in general.



## Mounted unit for small arms

Before training, the mounted unit is installed on the personal weapon of a soldier, to simulate shooting. Mounted units can be installed on the barrels of:

- Automatic rifle (AK, AKM, M4 carbine, etc.)
- Machine guns (RPK, PK, PKT)
- Rifles (SVD)

The mounted unit with the emitter works in two modes: with blank cartridges, or without them.

When used without blank cartridges, the magazine is removed from the weapon, and the mounted magazine unit is connected. When you press the trigger of the weapon, the mounted unit sends impulses of laser to the target. The shot is accompanied by a sound indication from the speaker installed in the magazine.

When used with blank cartridges, the emitter sends impulses to the target, synchronizing with blank shots.



With blank cartridges



Without blank cartridges

IR range is up to 400m

-20°C / +40°C

8h

## Weapons with an integrated emitter

The electronics unit can be installed in models of any weapon: sidearm, automatic rifle, rifle.

An emitter and all the necessary electronics are installed in the model. The shots are accompanied by a sound indication from the speaker installed in the magazine.

The integrated unit, like the mounted unit, is used to practice firing at the manpower of a conventional enemy.



Integrated emitter

IR range is up to 100m

-20°C / +40°C

8h



Integrated emitter

IR range is up to 400m

-20°C / +40°C

8h



Integrated emitter

IR range is up to 1000m

-20°C / +40°C

8h

## Equipment with hit sensors

Equipment with hit sensors is used by soldiers during training to capture conditional damage. The vest and helmet cover is made of wear-resistant materials, which allows for training in any conditions.

## Tactical Helmet Cover

To capture strikes to the head, the vest is used together with a cover for a tactical helmet. These helmet covers were created taking into account the shape and size of the customer's helmets.

## Vest

The vest with sensors captures hits from a conventional enemy's weapon and detonation of simulated explosive devices. A GPS module is installed in the vest and allows you to track the movement of soldiers around the training ground during training. The vest records the hits in the body and hands of the soldier, allowing for a more realistic assessment of the degree of conditional injury.



Helmet Cover	-20°C / +40°C	8h
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Vest	-20°C / +40°C	8h
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## «Dzhmil» Stress Belt

This device is made in the form of a bracelet that is worn on the hand of a soldier for the physical sensation of a hit.

When the sensors on a vest or tactical helmet capture a conditional hit, the stress belt transmits a short electrical impulse of regulated power to the soldier's body, which causes a short-term muscle contraction.

This device is certified. The generated electrical impulse is absolutely safe for human health. Not recommended for people with pacemakers.

### Stress belt

1. Allows you to develop conditioned reflexes in the training process
2. Allows the fighter to feel that he received a conditional hit
3. Muscle contraction with the hit enhances training realism
4. Depending on the physical characteristics of the soldier, you can choose the power of the electrical impulse or set the vibration



Stress belt

-20°C / +40°C

8h



## The set of military equipment

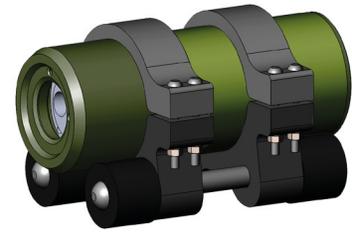
A set of military equipment is used to work out scenarios of special operations using armored vehicles.

### The kit includes:

1. A mounted unit with a laser emitter that simulates firing from a cannon and the machine gun of a tank
2. A fire control module is used to select the type of ammunition and fire control
3. Hit sensors record the hits at armored vehicles, and they're accompanied with a light indication
4. The control unit is the main module with GPS installed, which allows you to track the movement of armored vehicles. There is also an acoustic speaker for sound simulation of a shot and a hit sensor installed
5. A pyrotechnic imitation unit is used for pyrotechnic indication of a shot, it creates a smoke indication in cases of conditional damage to armored vehicles

All components are installed on standard military equipment, without making changes to the design.

1



2



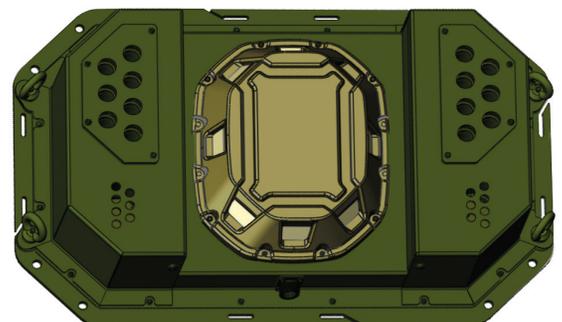
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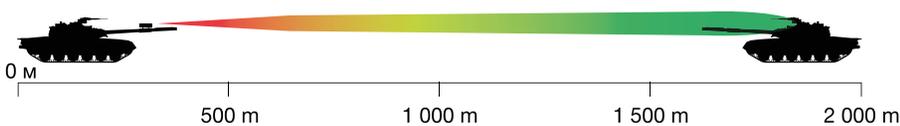


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## Weapon kit for tanks, infantry fighting vehicles, armored personnel carriers, and others

A set of military equipment is used for tactical training of crews of armored vehicles.



## The ATGM complex «Thor»

The training anti-tank missile system «Thor» is designed to work out guidance and defeating equipment based on the Stugna-P combat training ATGM.

### The ATGM complex «Thor» consists of:

1. A hinged unit with a laser emitter - to simulate a rocket launch
2. Devices capturing the defeat of anti-tank systems
3. A hinged unit - for a conditional rocket launch
4. Software for calculating and analyzing actions performed by a soldier

### The complex is used for:

- Training ATGM operators in guiding and hitting targets with guided missiles
- Obtaining skills with standard guidance devices
- Obtaining a clear assessment of the effectiveness and level of training of ATGM operators of Stugna-P

Parameter	Value
Range	up to 4,000 m
Temperature range	from -20°C / +40°C
Battery life	up to 8 hours



## The MANPADS training complex «Tarantula»

The «Tarantula» man-portable air defense missile system is designed to practice guidance on flying targets using the «Igla» MANPADS.

### The «Tarantula» complex consists of:

1. A hinged or integrated emitter for MANPADS «Igla»
2. Unmanned aerial vehicles with devices for capturing conditional damage
3. The software for selecting training scenarios

### The complex allows

- Working out the algorithm of actions when launching a rocket from MANPADS
- Training MANPADS operators to guide and properly select the course of flight of the rocket

Parameter	Value
Range	up to 1 200 m
Temperature range	from -20°C / +40°C
Battery life	up to 8 hours



## The «MON-50» complex simulator

The «MON-50» system is a complex consisting of mock-ups and simulators for soldiers to gain a complete familiarization with the device, and the principle of operation of the explosive device.

### The complex simulator consists of:

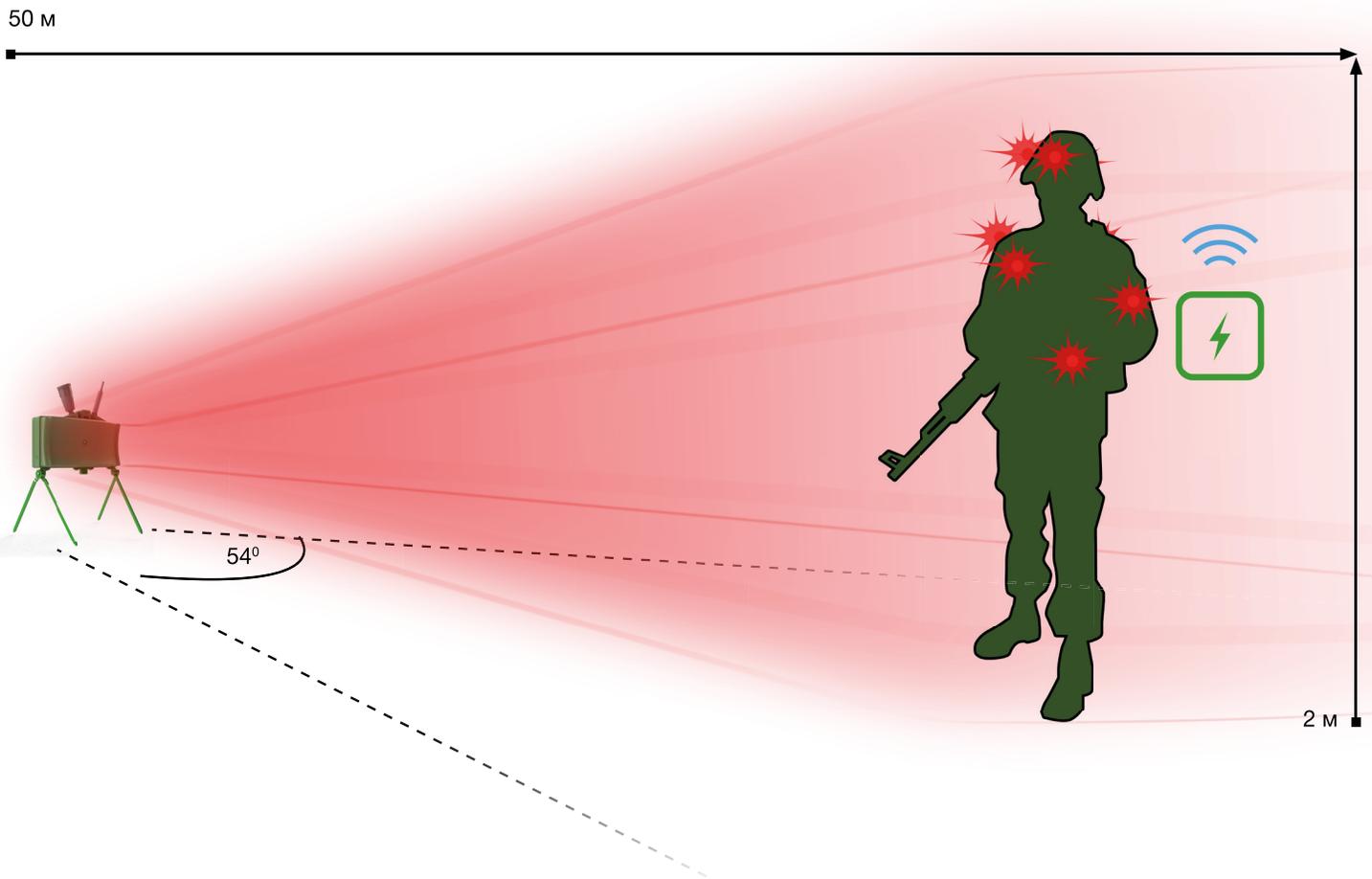
1. MON-50 model sectionalized. This allows you to get acquainted with the components and the internal structure of the device
2. MON-50 portable model. Allows you to gain practical skills in preparing, planting, aiming for a single explosive device
3. MON-50 electronic mine simulator. It is used to train soldiers to use and counteract mines in a battle
4. A bag for transportation



## The principle of operation of the electronic mine simulator

- The MON-50 simulator is installed using a bipod or fixed using a clamp
- After the installation, aiming and installation of the electric circuit, the soldier moves away from the simulator
- The mine is ready for activation by «remote detonation» or clearance when working in the «tripwire» method
- After activating the mine, it emits a horizontal laser impulse, with an angle of impact of 54 degrees, at a distance of up to 50 meters, in accordance with the combat prototype. The laser impulse strikes all the personal kits of soldiers located in the affected zone of the mine simulator

Parameter	Value
Range	up to 50 m
The damage angle is	54°
Temperature range	from -20°C / +40°C
Battery life	up to 8 hours



## A simulator of a pressure-type anti-personnel mine

The simulator of anti-personnel mine is used for the tactical training of soldiers and military engineers.

### The complex consists of:

1. A mine simulator that is activated when you pressed on
2. Software - displays information about the state of ammunition simulators and the degree of conditional damage received by soldiers

### Using the simulator of anti-personnel pressure-type mines, you can:

- Obtain the skills in finding and marking pressure-type mines
- Learn to clear and avoid mines



Parameter	Value
Temperature range	from -20°C / +40°C
Battery life	up to 8 hours



## The TM-62 anti-tank mine simulator

The TM-62 anti-tank mine simulator is used for tactical training and for preparing military engineers.

### The complex consists of:

1. The TM-62 anti-tank mine simulator is installed in the ground and activated when military equipment comes into contact with it
2. Software - used to obtain training statistics

### Using an anti-tank mine simulator, you can:

- Obtain skills in disguising and placing the explosive device
- Teach sappers to find mines in the ground and clear them, or mark them to avoid contact
- The simulator is triggered by the weight of more than 150 kg, like the combat prototype

Parameter	Value
Temperature range	from -20°C / +40°C
Battery life	up to 8 hours



## Training Control Center

The central control point is a separate area for managing SKIF systems.

### The Training Control Center allows you to:

1. Track and manage the activities of various units and arms
2. Set up training systems, and prepare them for training
3. Track the actions and movements of units and soldiers across the training ground in real-time
4. Evaluate both the effectiveness of the unit in general and individually
5. Store training statistics for further analysis

### The Training Control Center includes:

1. The training manager's control panel. A large overview panel that allows you to display any part of the map on demand, increase or decrease the display scale, and display the necessary statistics on demand
2. The workplace of the operator-administrator of tactical exercises allows the operator to show the necessary information about the state of training. The operator displays information on the viewing panel as needed
3. The operator is directly subordinate to the leader of the training and urgently performs the necessary actions for him

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4. The workplace of chief of the tactical training is intended for unit commanders. Such as artillery batteries, infantry companies, reconnaissance platoon, OPFOR, etc. At the workspace, the commander sees only the information related to his subordinate unit
5. All of the training data is saved on the server, with the possibility of further viewing and analysis



## A kit of repeaters for wireless range coverage

A repeater system for creating coverage, which is necessary for the interaction of the SKIF equipment with software installed on the tablet or in the control center. The MESH system creates coverage with a radius of up to 500 meters (the area can be increased by adding more repeaters).



Parameter	Value
Temperature range	from -20°C / +40°C
Battery life	up to 8 hours

## Adjustment Case

The device is made in the form of a case, it is used for quick and convenient adjusting of mounting blocks on small arms before training. The case allows for the adjustment of both indoors and in the field.



## Tablet

A tablet is provided with the software pre-installed for working with the SKIF equipment.



## Case

Designed to transport the elements of the training systems. The case is made of shockproof material.



## Remote Control

Used for basic equipment settings, in the absence of the tablet.



## Charger C20

Designed to charge 20 devices at the same time. For ease of use, the connectors of all devices are the same.



## Warranty and after-sales service

The warranty on all equipment supplied by SKIF is 24 months. In the case of a confirmed inoperability of an individual training module, repair or replacement of the module is provided. At the end of the warranty period, the customer is invited to upgrade the equipment with a subsequent extension of the warranty.

For the entire period of the simulator service, users are provided with free technical advice and the possibility of training customer representatives to work with the simulator, or equipment maintenance on the basis of SKIF or on the basis of the customer's training center.



**SKIF**

Tactical laser tag system

[rb@skif.cc](mailto:rb@skif.cc)

[skif.cc](http://skif.cc)

+38 050 020 48 10

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