



EU CATALOGUE

CIVILIAN MARKET 2020



MORE THAN A CENTURY ON THE BATTLEFIELD



Riga. 1905



Novosibirsk. 1941



Novosibirsk. 2017

NPZ-Novosibirsk Instrument Plant has a successfully history of military and civil products

NPZ - Novosibirsk Instrument Plant borne in 1905 from a partnership with «Carl Zeiss» and «C. Herz» with the intent of supplying the Russian Imperial Army and Navy with sights and observation devices.

During the 1st World War the factory, considered strategic for the war, has been integrated into the "General Direction of Artillery" and transferred to S. Petersburg before and to Pavshino (today Krasnogorsk) after. In the year 1927 the factory has been named as Fine Mechanical Unit n. 19 and subsequently renamed as Factory n. 69.

As a consequence of the 2nd World War, the plant has been evacuated to Novosibirsk and renamed as Factory n.393 where, in just four years, more than 80.000 scopes (PU and others) for sniper rifles. PUs built by Factory n. 393 were considered as the finest ones and reserved for the top snipers.

Today NPZ is a unique complex which can give solutions for research, development and serial production of optical-electronic devices mainly for military purposes.

NPZ is a member of Rostec holding, belongs to Rostech State Corporation on the development of the prospective directions, optimization of production chains and increase of products competitiveness.



PO - COMMON SPEC

The sights are intended for rapid and accurate choosing the target, aimed fire with small arms having side mounting seat of dovetail type or picatinny rail as follows:

PO MxL	for	SVD - Tigr
PO MxL-1	for	AK - Saiga
PO MxL-P	for	Picatinny rail

M-magnification, **L**-front lens diameter

The coating can be standard grey or matt black (pictures may not correspond).

All the sights are mil-spec and have a solid body with a bracket. It improves reliability when firing and under severe weather conditions (very low temperatures, umidity, fog, rain, dust, etc.).

FEATURES

The sights are equipped with aiming reticle illumination system with a common AA 1.5V battery type power supply.

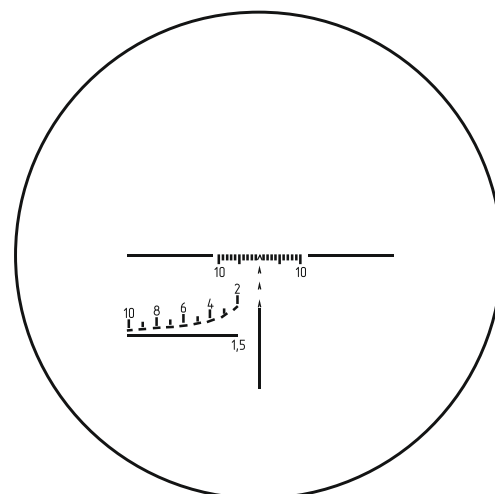
The sights have two handwheels with the scales which can input the required corrections in the vertical horizontal planes in registration and firing. **WARNING** the adjustments are made by shifting the reticle, this allows a very fast adjustment. This solution is required to allow the maximum light transmission and to eliminate mirages as happens in self-centering reticles. It is a military requirement.

The sights ensure easy and precise aiming of gun in the various conditions of visibility and atmosphere at the ambient temperature from – 50 to +50 °C.

Reticle is the standard ballistic military one with range-finding scale, bullet drop and wind/speed correction.

PO MODELS / SUGGESTED CIVILIAN USE

2,5x18-1	CQB-short range (150m)
4x24/4x24-1/4x24-P	Medium range (300m)
1,5-4,5x16-1	CQB-medium range (300m)
6x36/6x36-P	Medium range (600m)
3-9x24/3-9X24P	Long range (1200m)
4-12X36-P	Long range (1200m)





PO 2,5X18



Magnification, x	2.5
Field of view, deg	11
Exit pupil, mm	7.2
Eye relief, mm	65
Objective lens diameter, mm	18
Resolution, arc. sec	15
Overall dimensions, mm	337x136x72
Weight, kg	0.60

VERY LIGHT SCOPE DESIGNED FOR AK

PO 4X24



Magnification, x	4
Field of view, deg	6
Exit pupil, mm	6
Eye relief, mm	68
Objective lens diameter, mm	24
Resolution, arc. sec	12
Overall dimensions, mm	337x136x72
Weight, kg	0.6



THE CLASSIC SVD SCOPE



PO 1,5-4,5X16



Magnification, x	1.5-4.5
Field of view, deg	10-3.66
Exit pupil, mm	7.9-3.3
Eye relief, mm	72
Objective lens diameter, mm	16
Resolution, arc. sec	30-10
Overall dimensions, mm	338x132x72
Weight, kg	0.80

VERY LIGHT SCOPE DESIGNED FOR AK

PO 6X36



Magnification, x	6
Field of view, deg	4
Exit pupil, mm	6
Eye relief, mm	65
Objective lens diameter, mm	36
Resolution, arc. sec	12
Overall dimensions, mm	410x136x72
Weight, kg	0.74

THE STANDARD SVD SCOPE



PO 3-9x24



Magnification, x	3-9
Field of view, deg	6-2
Exit pupil, mm	3.9-2.6
Eye relief, mm	70
Objective lens diameter, mm	24
Limiting resolution, arc sec.	20-8.5
Overall dimensions, mm	305x136x72
Weight, kg	0.85

THE SPECIAL SCOPE FOR SVD

PO 4-12x36



BRAND NEW LONG RANGE SCOPE FOR SVD (BRACKET AL6.133.351 OR AL6.130.390-03 OR SPECIAL CHASSIS IS REQUIRED) AND FOR LONG RANGE RIFLES WITH PICATINNY RAIL

Magnification, x	4.8-14.5
Field of view, deg	3.5-1.17
Exit pupil, mm	3.9-2.6
Eye relief, mm	70
Objective lens diameter, mm	36
Limiting resolution, arc sec.	20-8.5
Overall dimensions, mm	416x142x77
Weight, kg	0.97



PO315



PO315 PO420

Magnification	3-15x	4-20x
Field of view:		
– 3x magnification	7°	5°
– 15x magnification	1°29"	1°
Eye relief, mm	90	90
Exit pupil, mm:		
– 3x magnification	12	13.8
– 15x magnification	3.3	2.7
Limiting resolution, arc. sec:		
– 3x magnification	23	18
– 15x magnification	3.3	5
Diopter adjustment, diopter	±3	±3
Elevation adjustment	±0-12	±0-12
Windage adjustment	±0-12	±0-12
Power supply	CR2450x1, 3V	CR2450x1, 3V
Dimensions, mm	356.5x77x63	384x77x62.5
Weight (without bracket), kg	0.85	1.04

PO315 AND PO420 ARE ADVANCED MILITARY SCOPES FOR LONG RANGE SNIPING, THEY COME OUT ZEROED WITH THEIR DEDICATED MOUNT AND ARE DESIGNED FOR CALIBERS UP TO 12,7X108. RESISTANT TO ANY WEATHER CONDITION TO BE USED FOR SVCH, TSVL-8 DXL-4S AND SVLK 14S CAN BE USED BY ANY RIFLE WITH PICATINNY RAIL. BALLISTIC ILLUMINATED RETICLE AND PARALLAX COMPENSATION.

PO420



Reticle is located in objective lens focal plane. Light-transmission value is not less than 93%. Click value 1cm/100m
Tube diameter 34 mm



PKU-2



The sight is intended for target recognition and aimed fire from AK-Saiga, SR-1, SVD, SVCh-Mr-1 or other firearms with Picatinny/Weaver rail and other mounting types using special bracket.

MODELS

PKU-2 (AK-Saiga)
PKU-2-P (Picatinny)

FEATURES

- ▲ High contrast technology «Tochka K» provides
- ▲ Natural color reproduction and high brightness
- ▲ 12 levels of reticle illumination
- ▲ Rugged dust and water proof aluminum nitrogen filled housing
- ▲ «Anti-fleck» technology
- ▲ Small weight and dimensions

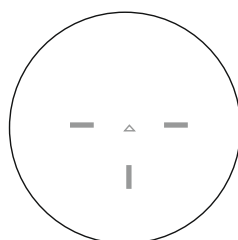
SPECIFICATIONS

Magnification, x	1
Field of view	9
Exit pupil, mm	18
Eye relief, mm	70
Adjustment range of the sight by height and by direction	±0-10
Height of optical axis to the seat plane, mm	18
Levels of reticle illumination	12
Power supply	1xCR2032
Operating temperature, °C	from -40 to +40
Overall dimensions, mm	62x52x53
Weight, kg	0.14



PK1

The collimator is self-adjusting to the light intensity and has a dark filter to be used in very bright conditions or to targets in the sun direction.



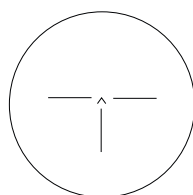
Field of view

SPECIFICATIONS

Magnification, x	1
Field of view, deg	13
Resolution, arc. sec	1
Adjustment range of the sight by height and by direction, mil	$\pm 0-10$
Overall dimensions, mm	133x152x68
Weight, kg	0.6



PO 1x20



Field of view



SPECIFICATIONS

Magnification, x	1
Field of view, deg	13
Exit pupil, mm	20
Eye relief, mm	100
Adjustment range of the sight by height and by direction, mil	$\pm 0-08$
Value of handwheel point, cm/100m	2.5
Reticle illumination power supply	Luminous element
Overall dimensions PO1x20 A, mm	180x65x110
Weight, kg	0.55



The collimators sights are intended for aimed fire in daylight, twilight conditions and at night at the illuminating targets with AK-Saiga. Aiming is carried out by an aiming sign of a reticle, the image of which is found in the eternity.

The sights are equipped with aiming reticle illumination based on tritium element. The sights can be used under the ambient temperature from -50 to $+50$ °C and relevant humidity 100% at the temperature 25 °C. They provide rapid aiming capability at moveable targets. Aiming is effected with one or two eyes. Illumination (green light) of the reticle based on tritium element.



PO 2,8x18



Rifle sight is intended for battlefield observation, choosing the target, determination of the distance to a target and aimed shooting with submachine guns AN-94, AK74, AK-100, AK-12/15 and light machine guns RPKN in the daytime, twilight and at night at the glowing and illuminated targets. It fits Saiga and picatinny rail.

The aiming and determination of the target range is carried out by angles and strokes of the sight reticle.

For firing at night and twilight the sight is equipped with tritium lighting element aiming mark illumination.

SPECIFICATIONS

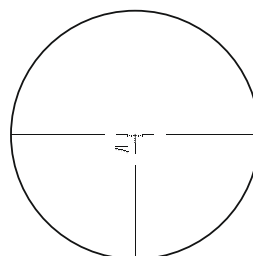
Weapons	AN-94 AK-74 AK-100 AK-12/15 RPKN
Magnification, x	2.8
Field of view, deg	13
Exit pupil, mm	6
Eye relief, mm	32
Resolution limit, arc. sec	19
Adjustment range of the sight, mil: – by height – by	±0-10 ±0-10
Shooting range	400-700
Human measuring range, m	400-700
Overall dimensions, mm	200x90x170
Weight, kg	0.7



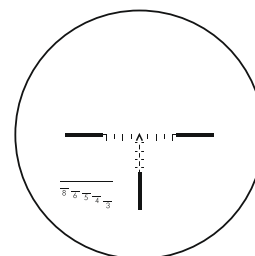
PO 1.5/6



PO1.5/6 optical sight with two fixed magnifications 1.5x and 6x is designed for territory observation, target detection and recognition as well as for aiming of weapons with top mounting seat of «Picatinny» rail type. The magnification swap is realized with a special mechanism which, differently from others, is very solid and durable in line with the Russian tradition. Designed for Russian special corps, ideal for IPSC competitions.



Field of view
magnifications
1.5 x



Field of view
magnifications
6 x

FEATURE

- ▲ Instant switching of magnification by transfer of the lever at the bottom of the sight
- ▲ Feature to set the lever of magnification change to the right or left from the hand
- ▲ Internal design of adjustment mechanisms
- ▲ Reticle is located in the front focal plane
- ▲ Combined sight reticle with illumination of the central aiming mark
- ▲ Strong aluminium body
- ▲ Long eye relief
- ▲ Hermetically sealed

SPECIFICATIONS

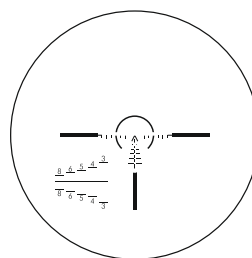
Magnification, x	1.5	6
Field of view, deg	16	4
Exit pupil, mm	10	7
Eye relief, mm	70	
Reticle moving range by horizon and by elevation, mil	±0-10	
Diopter adjustment, diopters	- 3 to +2	
Power supply	AAx1 (1.5 V)	
Overall dimensions, mm	211x81x65	
Weight, kg	07	



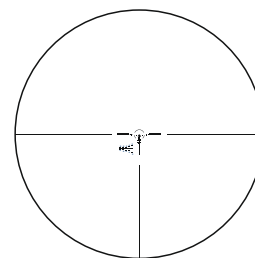
PO 1/4



PO1/4 optical sight with two fixed magnifications 1x and 4x is designed for territory observation, target detection and recognition as well as for aiming of weapons with top mounting seat of «Picatinny» rail type. The magnification swap is realized with a special mechanism which, differently from others, is very solid and durable in line with the Russian tradition. Designed for Russian special corps, ideal for IPSC competitions.



Field of view
magnifications 4 x



Field of view
magnifications 1 x

FEATURES

- Instant switching of magnification by transfer of the lever at the bottom of the sight
- Feature to set the lever of magnification change to the right or left from the hand
- Internal design of adjustment mechanisms
- Reticle is located in the front focal plane
- Combined sight reticle with illumination of the central aiming mark
- Strong aluminium body
- Long eye relief
- Hermetically sealed

SPECIFICATIONS

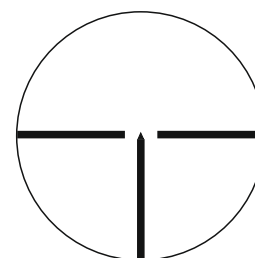
Magnification, x	1	4
Field of view, deg	24	6
Exit pupil, mm	10	8
Eye relief, mm	70	
Reticle moving range by horizon and by elevation, mil	±0-10	
Diopter adjustment, diopters	from - 3 to +2	
Power supply	AAx1 (1.5V)	
Overall dimensions, mm	180x83x63	
Weight, kg	0.6	



PU 3.5x22



This sight is an original PU, just made today! It is exactly manufactured as the last version of PU we produced at the times of the 2nd World War for the VM-S (Vinhovska Mosina Sniperaya) and the SVT (Sniperaya Vinhovska Tokareva). Sight matches with AL6.130.383 and AL6.130.382 brackets.



Field of view



In the picture the PU ver. IV we produced in 1944 in Factory n. 393 for Red Army snipers

FEATURE

- ▲ Steel body
- ▲ Adjustment mechanism without clicks Reticle
- ▲ lines of 0.1 mm width
- ▲ Operation ambient temperature is from -50 to +50 °C

SPECIFICATION

Magnification, x	3.5
Field of view, deg	4.5
Eye relief, mm	72
Exit pupil, mm	6
Value of an upper handwheel point, cm/100m	7
Resolution, arc. sec	13
Overall dimensions, mm	170x42x42
Weight, kg	0.38



UM8-2

UNIVERSAL PRISMATIC

Designed under KGB request for spotting remote targets positioned at a distance from 5m to infinite in the open air and in any season.

Very compact, it is handy in service and has small dimensions and mass, but despite of its small size lens are extremely clear and bright.

The diopter setting by an observer's eye and focusing on the object to be observed is carried out by rotation of the objective at the same time.

Originally born for spying, it is ideal to be used at the shooting range to sight grouping on targets up to 300m. Targets are visible also in low-light conditions.



SPECIFICATIONS

Magnification, x	8
Field of view, deg	5
Entrance pupil diameter, mm	2
Convergence of the light beams behind the eyepieces,	-10 to +10
Resolution, arc sec.	13
Overall dimensions, mm	100x45x45
Weight, kg	0.12

PMR-1

ZOOM MONOCULAR

Monocular designed for artillery spotter, very compact for field observation of targets up to 6 km. with zoom magnification 4x -20x.

There is a removable light filter for contrast increasing in reduced illumination or fog conditions and the retractable blind to avoid reflex.

Reticle supplemented with the range and angle-measure scales properly designed for sight adjustment. Device is equipped with the holder for mounting on a suitable support.

A light and compact solution for long range shooting, the military artillery reticle is a great support in evaluating grouping and deviation and distance.

Perfect for hunting or shooting range where a professional equipment is required.

The special support (included) was designed for battlefield use and it is intended to fix the monocular virtually everywhere. The monocular has been made for use in any weather condition, very low temperatures, rain, fog, dust, etc. and it is mil-spec.



Field of view

SPECIFICATIONS

Magnification, x	20-4
Field of view, deg	1.5-8.0
Exit pupil, mm	1.4-7
Eye relief, mm	15
Resolution limit, arc. sec	10-20
Overall dimensions, mm	265x42x190
Weight, kg	0.45



BRACKETS

BRACKET
AL6.130.383



For mounting PU3.5x22 sight on AK-Saiga

Overall dimensions, mm	120x40x130
Bore diameter, mm	26.5
Weight, kg	0.58

BRACKETS
AL6.130.38
2 AL6.130.385



For mounting PU3.5x22 sight on Mosin, KO-44 rifles.

Overall dimensions, mm	112x35x75
Bore diameter, mm	82
Weight, kg	26.5

BRACKET
AL6.133.351



For SVD-Tigr, from side mounting seat to picatinny.

Overall dimensions, mm	180x52x98
Height from the seat rail axle to Picatinny rail mm:	57

BRACKET
AL6.133.351-01



For AK-Saiga, from side mounting seat to Picatinny.
LOW PROFILE

Overall dimensions, mm	180x52x109
Height from the seat rail axle to Picatinny rail mm:	68

BRACKETS
AL6.130.390-02
AL6.130.390-03

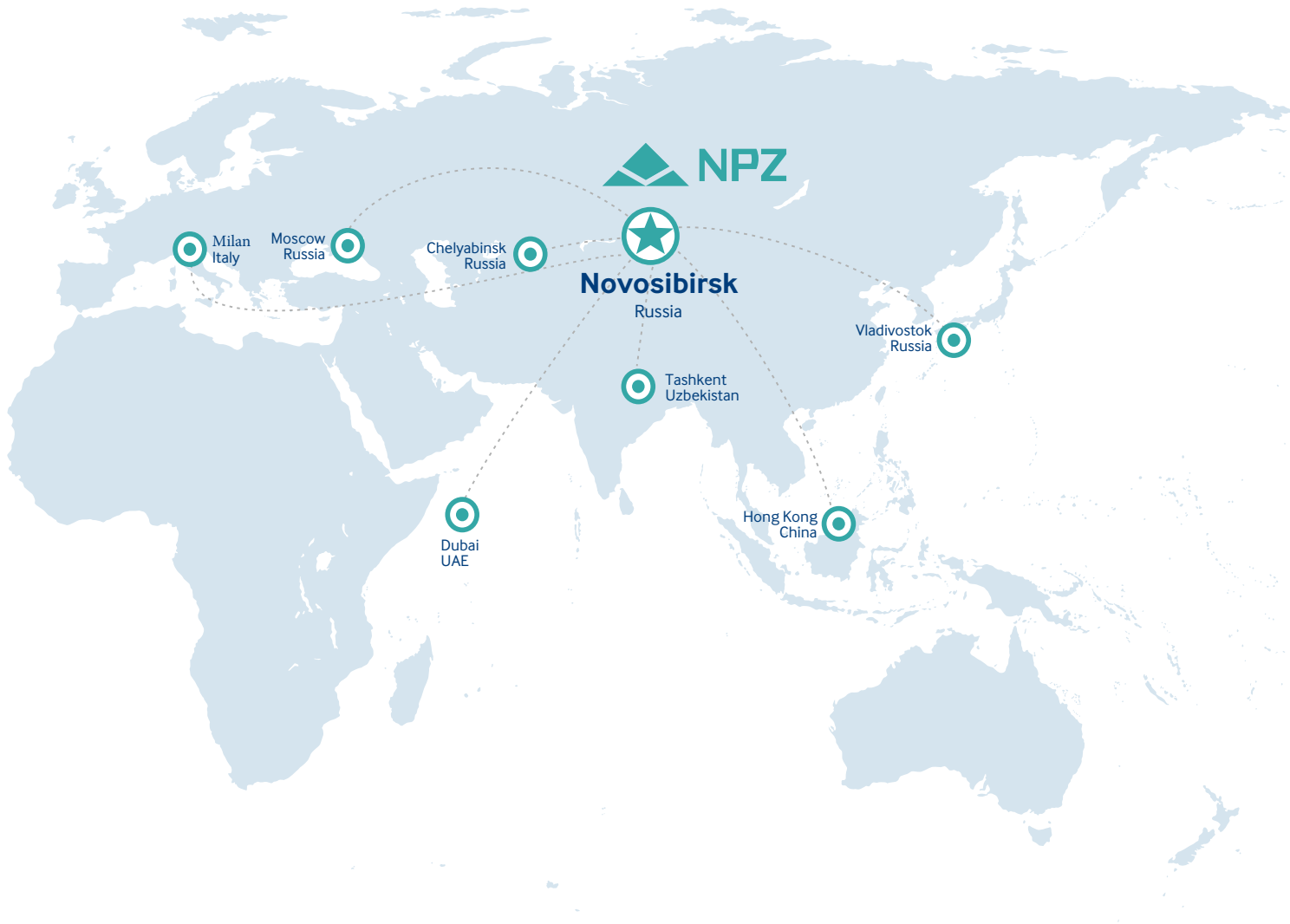


From side mounting seat to Picatinny.
HIGH PROFILE
AK-Saiga AL6.130.390-03)
SVD-Tigr AL6.130.390-02

	AL6.130.390-02	AL6.130.390-03
Overall dimensions, mm	185.5x51x90	180.5x55x98
Height from the seat rail axle to Picatinny rail mm:	57	68

All NPZ brackets are designed and made according to Red Army specifications

FOREIGN PARTNERS - EURASIA



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