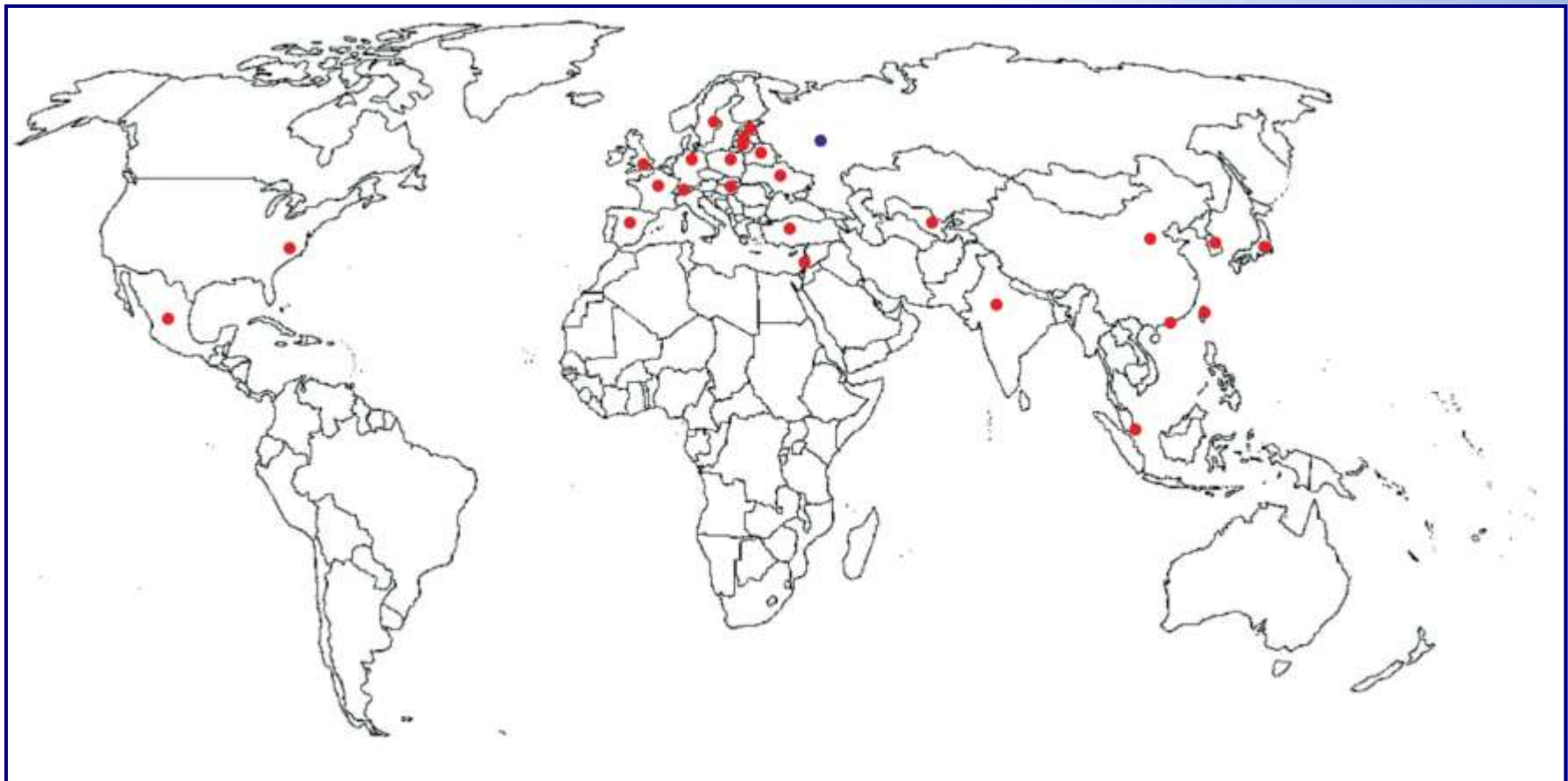


**Joint stock company
Research and development institute of gas discharge
devices «Plasma»**



**Plasma JSC founded in 1959
is a leading research and
development company in
Russia for plasma electronics
for various applications.**

Plasma JSC products are delivered to 36 countries of the world, including USA, Japan, Germany, France, Italy, Switzerland, South Korea, Taiwan, China etc.



Main products

Plasma display panels



Gas lasers



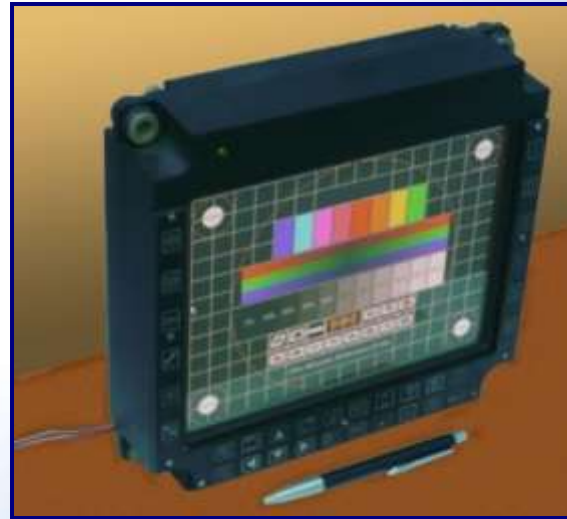
Gas-discharge devices



Industrial ceramics and metal-ceramic units



Plasma display panels



Competitive strengths

- wide operation and temperature range – minus 60...+60 °C
- short starting time – 2...4 seconds at minus 60 °C
- high mechanical durability, shock up to 500 g
- small operator's fatigue during mechanical vibration
- avia transportation
- resistance to special factors – light impulse and ionizing radiation

Gas lasers



HeNe lasers



Helium-Neon lasers have generation spectrum in red (0,63um) and IR (1,15, 3,39, 5,4 um) spectral regions.

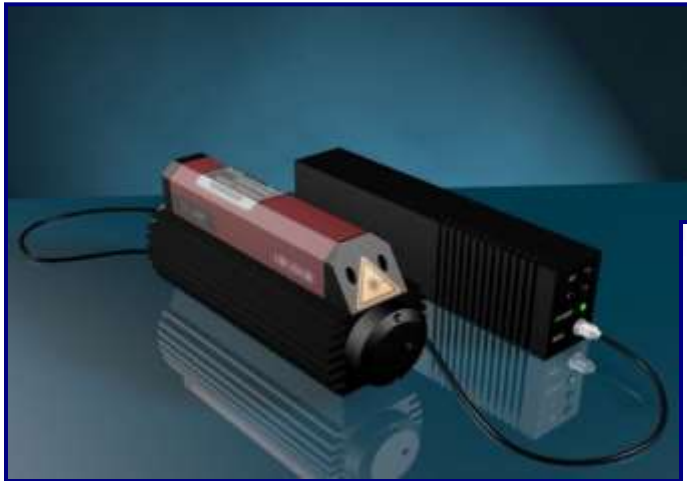
Application: interferometric precise measurements (stabilized lasers), manufacturing machinery, research and development, medical equipment.

HeNe laser tubes



Helium-Neon laser tubes are widely used for refurbishment of HeNe lasers; interferometry; high-accuracy precision measuring equipment for microelectronics and machinery units.

CO2 lasers



**1W laser
LCD-1A**



**50W laser
LCD-50W**



**10W laser
LCD-10A**

Application: manufacturing machinery, research and development, measurement equipment, surveillance systems

Nitrogen lasers



**Small size UV laser
AIL-05**



**Laser AIL-3
for PDP photomask
repair units**



**UV laser LGI-511
for microelectronics
units**

Nitrogen lasers have shown splendid performance in microelectronics units.

HeCd lasers



**Compact UV laser
HCCL-30UM(I)**



**Compact lasers
HCCL-4UM; HCCL-15UM**



**Two-wave laser HCL-40
with power 40mW**

Application: research and development, stereolithography, production of holographic optical elements, metrology, biochemistry and cytometry, polygraphy, medical diagnostics and therapy.

Gas-discharge switching devices



Thyratrons



**Anode voltage from 6 to 50 kV;
impulse currents in microsecond mode up to 3 kA;
impulse currents up to 15 kA in nanosecond mode;**

Spark-gaps



High power surge arresters



Triggered Spark Gaps



Surge arresters



Spark Gaps (Sharpeners)



Untriggered Spark Gaps

Metal ceramic pulse X-ray tubes



- Designed for use in X-ray devices and fault detectors.
- Higher power and durability as against glass-metal analogues.



Application of switching devices



Application of gas-discharge switching devices:
long-range navigation; radio-locating stations; weather radars; aircraft engine ignition systems;
Protection of electronic equipment; geological exploration (neutron logging instruments, seismic exploration); medical equipment and many others.

Ceramic parts and metal ceramic units

Industrial ceramics (rings, cylinders, muzzles etc.)





**Metal ceramic camera
for toxic gas and
explosives analyzer**



**Metal ceramic details
for gas analyzers**

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