

**КРЫМСКИЙ НАУЧНО-  
ТЕХНОЛОГИЧЕСКИЙ ЦЕНТР  
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**POPOV CRIMEAN  
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CENTER**

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THE CENTER IS AIMED TOWARDS THE CONDUCTING OF SCIENTIFIC RESEARCHES AND EXPERIMENTS IN THE FIELD OF HIGH TECHNOLOGIES, SUCH AS EM AND RADIATION RESISTANCE OF MATERIALS AND ELECTRONIC COMPONENT BASE

OUR GOAL IS TO ENGAGE HIGHLY-QUALIFIED SPECIALISTS AND EXPERIMENTAL BASE OF CRIMEAN UNIVERSITIES

#### **THE BASIC CHARACTERISTICS OF TEST EQUIPMENT:**

##### **Stands for UWB impulse electromagnetic fields IC-1M (USP videopulse)**

E-field strength, MV/m — 0.4...2.5  
H-field strength, kA/m — 3...12  
Pulse width, ns — 10...40  
Pulse rise time, ns —  $0.5 \pm 0.3$

##### **Stands for UWB impulse electromagnetic fields IC-7 (USP radiopulse)**

E-field strength, MV/m — 0.01...0.12  
H-field strength, kA/m — 0.03...3  
Pulse width, ns — 2...3  
Pulse rise time, ns —  $0.2 \pm 0.1$

#### **Measurement Equipment**

Probes of electric impulse signals (1...1000 kV, 0.2...10 ns)  
Probes of magnetic impulse signals (1...10 kA, 2...100 ns)  
Probes of electric impulse signals based on strip line (0.1...100 kV/m, 0.2...10 ns)  
Measurement MW antennas (0.8...32 GHz)  
Measurement UWB pulse antennas (0.1...3 GHz)

#### **Research reactor IP-100**

Thermal strength — 200 kW  
Thermal neutrons flux density —  $5,4 \cdot 10^{12}$  neutrons/sm<sup>2</sup>·s  
Exposure dose (max) —  $4,5 \cdot 10^{12}$  R/h

MOREOVER, THE CENTER SPECIALIZES IN THE FIELD OF HISTORY OF RADIO RESEARCHES IN THE CRIMEA AND HOLDING OF SPECIALIZED SCIENTIFIC AND TECHNICAL CONFERENCES