

Creating a system for the metrological assurance of temperature measurement by thermal viewers

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In accordance with a law of the Russian Federation "concerning the provision of a measurement unit," thermal viewers can be used in such areas as health care, environmental protection, etc. to which state metrological control and supervision extends only if a system is available for metrological assurance based on a single standard and a normative–technical base. Because thermal viewers are a means of measuring temperature, they must be entered into a common system for the reproduction and transfer of the size of the unit of this physical quantity, ultimately based on the state primary standard of the unit of temperature. This paper is devoted to the construction of such a system. © 1999 The Optical Society of America.

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In accordance with a law of the Russian Federation "concerning the provision of a measurement unit" (PMU),¹ thermal viewers can be used in areas characterized by these means of measurement (MM) such as health care, environmental protection, etc. to which state metrological control and supervision extends only if a system is available for metrological assurance (MA) based on a single standard and a normative–technical base.

The creation of metrological apparatus and the corresponding normative–technical documentation has in general great significance and is regarded as an independent and major direction of modern thermal vision.²

An industry-wide system of MA of thermal viewers produced by the State Institute of Applied Optics Scientific Manufacturing Organization (Kazan) was created in the 1980s.³ However, no state system currently exists, even though the problem of creating it in this country has become extremely acute and is being faced by the D. I. Mendeleev All-Russia Scientific Research Institute of Metrology, St. Petersburg (VNIIM), in particular, as the main organization of Gosstandart in the area of thermal vision. This is because a large number of thermal viewers are coming into Russia from various foreign firms and also are being produced by certain domestic enterprises who monitor the parameters and characteristics of the devices by using unstandardized methods and facilities to check their own products. Such a situation provides no guarantee of the assurance of the measurement unit for the measurements made with the thermal viewers.

To correct this difficult situation, a system of MA of thermal viewers is needed similar to the one that exists for other MM in various measurement areas.

A general approach to the creation of a system of MA assumes that a standard and a normative–technical base is available for checking methods and facilities, along with metrological laboratories equipped with the necessary testing facilities and with qualified personnel for the testers. When a standard base is available in a specific measurement region, the creation of a system begins with testing the device in

order to confirm the type and to include it in the state register as an MM.

The confirmation of the type is a form of state metrological control and is carried out for purposes of PMU in this country. Testing of an MM is carried out by state testing centers of the MM, accredited in accordance with the acting legislation and normative documents for the PMU of Gosstandart of Russia. The checking of such MM in accordance with normative documents confirmed from the results of testing is subsequently carried out in metrological laboratories accredited with the right of checking in the given area of measurements.

The systems of MA of different MM have their own specific features, but the common approach remains the same for all MM. Therefore, the wide experience of VNIIM in creating systems of MA of MM in the area of thermometry can successfully solve the problem of creating such a system for thermal viewers.

Because thermal viewers are MM of temperature, they must be entered into the common system of the reproduction and transfer of the size of the unit of this physical quantity, ultimately based on the state primary standard of the temperature unit, stored at VNIIM.

Taking into account the variety of types and modifications of newly created thermal viewers available for operation, it is necessary to standardize the list of requisite metrological parameters and characteristics subject to checking at the stage of testing and checking in order to fully reflect the functional possibilities of these devices as MM of temperature in the area of their use. It is necessary in this case to standardize the terms and definitions used, most importantly, in the indicated list. Moreover, as shown by the working experience of VNIIM in testing the thermal viewers of foreign firms, the existing terminological discrepancies in foreign and domestic normative documents must be stated in the standard on terms and definitions, and means of overcoming them from the viewpoint of PMU must be found for measurements made by means of thermal viewers.

The list of requisite metrological parameters and characteristics and the standards on terms and definitions must

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