

**Box dimensions: height 2.2 in.; width 4.6 in.; depth 3.6 in.**

The CR-150-BOX is a die-cast aluminum housing for the CR-150 evaluation test board (see the application guide for the CR-150 for more details). Using the CR-150-BOX will simply the task of electrically shielding the CR-150 evaluation test board and the associated charge sensitive preamplifier (CSP) module.

Holes have been positioned on the CR-150-BOX in locations associated with BNC connector positions (detector bias, preamplifier output, and test pulser input) and banana power connector positions (-12V, GND, +12V) on the CR-150 board. On the opposite side there is a mounted BNC connector for the 'detector input' connection. Upon assembly, the user should connect wires from this connector to the 'detector input' and 'ground' positions on the CR-150 board.

The CR-150-BOX is shown in the photos below:



The CR-150-BOX is shown in this photo with the CR-150 evaluation board and CSP module installed. These items are sold separately.

### Grounding

The PCB-mounted connectors on the CR-150 board do not make electrical connection to the CR-150-BOX aluminum housing. This connection should be made through the ground connection between the "input" BNC connector and the CR-150 board (see above). In the event the input BNC connector is not used in your application, this important connection between the CR-150 board and the aluminum housing should still be made.

### Detector bias voltage limitations

The CR-150-BOX comes with a BNC connector at the detector "input" location on the housing. This BNC connector has a voltage rating of 500V.

### Availability of Preassembled Instrument

The CR-150-BOX is offered to customers willing to assemble their charge sensitive preamplifier instruments in kit-like fashion from Cremat parts. As an alternative, Cremat also offers fully assembled charge sensitive preamplifier instruments. For these fully assembled charge sensitive preamplifier instruments, please refer to the following parts numbers:

CR-110-INST:	Assembled charge sensitive preamplifier instrument based on CR-110 module
CR-110-INST-HV:	has SHV connectors at bias in and detector connections (2000V rating)
CR-111-INST:	Assembled charge sensitive preamplifier instrument based on CR-111 module
CR-111-INST-HV:	has SHV connectors at bias in and detector connections (2000V rating)
CR-112-INST:	Assembled charge sensitive preamplifier instrument based on CR-112 module
CR-112-INST-HV:	has SHV connectors at bias in and detector connections (2000V rating)
CR-113-INST:	Assembled charge sensitive preamplifier instrument based on CR-113 module
CR-113-INST-HV:	has SHV connectors at bias in and detector connections (2000V rating)

Please see the application guide for these instruments (CR-11X-INST and CR-11X-INST-HV) for more detailed information.

**Cremat, Inc.**  
**45 Union St.**  
**Watertown, MA 02472**  
**(617) 527-6590**  
**FAX: (617) 527-2849**  
**<http://cremat.com>**

