

CTL DECISION SHEET

Standard(s): IEC 60950-1 ed.1 (2001) IEC 60950-1 ed.2 (2005)	Sub clause(s): 1.2.4.2, 1.2.6.4, 1.2.8.6, 2.4	DSH 633A
Subject: Classification and test of digital cameras with built in flashes	Key words: - digital cameras - flash circuits - hazardous voltages	Approved by the 45 th CTL Plenary meeting 2008
<p>Question</p> <ol style="list-style-type: none"> 1. Is an electrical enclosure per clause 1.2.6.4 required for Digital Cameras that contain a (Xenon tube) flash, if the flash energy storage capacitor is charged to a hazardous voltage? 2. What protection class against electric shock should be defined? 3. Is an electric strength test between parts/circuits at hazardous voltage and SELV circuits/conductive enclosure required? All these parts are commonly connected at one point without insulation (secondary ground). <p>Decision</p> <ol style="list-style-type: none"> 1. Yes, an electrical enclosure is required. 2. A classification according to 1.2.4 is not necessary, but the construction has to provide double or reinforced insulation between hazardous live parts and accessible parts. Marking to Class II is not required. 3. An electric strength test is required in accordance with IEC 60950-1 2nd Edition, Table 5C. <p>Explanatory Notes:</p> <p>If the equipment contains parts and circuits at hazardous voltage, which do not meet the requirements of LCC or SELV, protection must be provided in form of an electrical enclosure with suitable mechanical strength.</p> <p>MT1 Barcelona: Similar requirements would be applicable to IEC 60065 7ed, except that SELV is not a term in that standard.</p> <p>MT2 Barcelona: Although the decision taken may apply to a certain construction, there are many examples of other constructions to which other decisions must be taken. For the specific construction noted, the decision is correct. However, the decisions of the PDSH cannot be considered to cover all likely constructions for equipment covered under IEC 60950-1. Additional information will be provided by the TC 108 Secretary to help clarify out position.</p>		