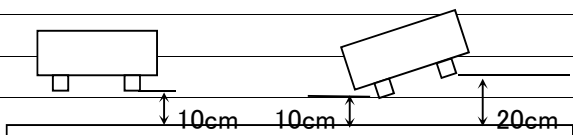


Test Report				Engineering Rroup Radiation Equipment Team			
U n i t	UD-716AGL13C			Approve	Check	Test	
				Mineo	Fukuzawa	Asou	
Date	2014/9/15	~	2014/9/23	Test laboratory Fukuoka			
Packing vibration and Drop test for UD-716(TLB Reader)							
Structure: There is no damage inside / outside UD-716						O K	
Performance: Communication with PC : There is no error and meet criteria.							
vibration test equipment : G-0210(V,H)FA520034							
1.Test Condition							
	direction		vibration acceleration	range of vibration	sweeping method	recurrence period	test time
1	Z direction		$\pm 9.8\text{m/sec}^2$ (1G)	5-50 Hz	0.5 octave / minutes	(798s)	60min
2	XY	2-4direction	$\pm 4.9\text{m/sec}^2$ (0.5G)				30min
3	direction	5-6 direction					
1.2 Drop test Condition							
Bottom surface: Drop height 25cm 1time							
Side surface: Drop height 10cm 1time , 4 faces							
Edge line: Long side and short side 1time							
2. Criteria for after test							
Structure : No damage(deformation , brake)							
Performance : To meet the following spec							
Communication with PC : No communication error							
Dark Count : less than 20							
CAL Count variation : less than $\pm 5\%$							
Repeatability variation : Li2B4O7(less than $\pm 5\%$) , CaSO4(less than $\pm 3\%$)							
3. Result							
Structure: There is no damage inside / outside UD-716							
Performance: Communication with PC : There is no error and meet criteria.							
Item		Before test		After test			
Dark Count		7 (counts)		6 Less than 20			
CAL Count		117000 (counts)		118000 +0.9%(less than $\pm 5\%$)			
Repeatability	Li2B4O7	1.940 (mS)		1.957 +0.9%(less than $\pm 5\%$)			
	CaSO4	1.983 (mS)		2.005 +1.1%(less than $\pm 3\%$)			
C14 is used as light source for "CAL Count". What the variation of CAL count meet criteria show that there is no damage in light source.							

Test Report				Engineering Rroup Radiation Equipment Team			
U n i t	UD-7900M			Approve	Check	Test	
				Mineo	Fukuzawa	Abe	
Date	2014/10/6	~	2014/10/14	Test laboratory Fukuoka			
Packing vibration and Drop test for UD-7900M(TLB Reader)							
Structure: There is no damage inside / outside UD-7900M						O K	
Performance: Communication with PC : There is no error and meet criteria.							
vibration test equipment : G-0210(V,H)FA520034							
1.Test Condition							
	direction		vibration acceleration	range of vibration	sweeping method	recurrence period	test time
1	Z direction		±9.8m/sec2 (1G)	5-50 Hz	0.5 octave / minutes	(798s)	60min
2	XY	2-4direction	±4.9m/sec2 (0.5G)				30min
3	direction	5-6 direction					
1.2 Drop test Condition							
Total weight : 200Kg							
Bottom surface: Drop height 25cm 1time				Surface (a cement ground)			
Edge line: Long side and short side 1time				Edge line			
2. Criteria for after test							
Structure : No damage(deformation , brake)							
Performance : To meet the following spec							
Communication with PC: No communication error							
Dark Count : less than 20							
CAL Count variation : less than ±5%							
Repeatability variation : Li2B4O7(less than ±5%) , CaSO4(less than ±3%)							
3. Result							
Structure: There is no damage inside / outside UD-7900M							
Performance: Communication with PC : There is no error and meet criteria.							
Item		Before test		After test			
Dark Count		9 (counts)		Less than 20			
CAL Count		14900 (counts)		14900 0.0%(less than ±5%)			
Repeatability	Li2B4O7	1 913 (mS)		1 879 -1.8%(less than ±5%)			
	CaSO4	1.972 (mS)		1.964 -0.4%(less than ±3%)			
C14 is used as light source for "CAL Count". What the variation of CAL count meet criteria show that there is no damage in light source.							