# Visual Inspection Criteria Type Pro-Cap Part No Standard Model (Exceed 22", up to 32" sizes) File No @083d

# 1. Appearance Criteria (for viewing area with and without cover glass)

Item	W: Width (mm)	L:	Acceptable Number	Total
		Length(mm)		Total
Liner	0.2≧W>0.15	10≧L	Up to 2pc per product	
(Foreign substance/scratch/	0.15≧W>0.1	20≧L	Up to 1 defect in	
transparent defects)			φ25mm	
Defects over 0.2mm in			including other kinds of	
diameter will be judged in			defects	
circular.	0.1≧W	30≧L	Acceptable	
Transparent defects mean				
bubble. * e.g.:1 lint etc				Up to 15 defects
	1.0≧D>0.7		Up to 2 defect per	per product
Circular			product	
(Foreign substance/scratch/	0.7≧D	>0.3	Up to 1 defect in	
transparent defects)			φ25mm	
Transparent defects mean			including other kinds of	
bubble, lint *1, etc			defects	
bubble, lift 1, etc	0.3≧D		Acceptable	
	D: average diameter =(longest+shortest diameters) / 2			
Dirt	No easily noticeable and no clear outline dirt should be OK			

<sup>\*1</sup> Lint is the defect that is different transparent from other part due to the elevating surface by printing over foreign substance.

### 2. Chip (touch screen)

Site	Chips at areas other than electrode sections					
Judgment Criteria (for all sizes)	Chip	Chip at Corner		Z Chip other than at corners		
	X	Υ	Z	X	Υ	Z
	0.5≦X · Y≦2.0(mm) ≦t		≦5.0(mm)	0.5≦Y≦2.0(mm)	<b>≦</b> t/2	
Acceptable	·			Up to 15 defects per product, but each		
Numbers	Up to 2 defects per product		defects must be 20mm away from each other			
	at each side.			at each side.		
	X•Y<0.5mm is acceptable But, if the chip reaches to Ag pattern, it is unacceptable.			acceptable But, if t pattern, it is unaccepta	-	

# 3. Chip (cover glass)

See the figure section 2

Site	Chips at areas other than color printing					
Judgment	X	Υ	Z	X	Υ	Z
Criteria	1.0≤X • Y≤2.0(mm) ≤t			<5 0(mm) 4 0 < V < 2 0(mm)	1.0≦Y≦2.0(mm)	≦t/2
(for all sizes)	1.0≦X · Y≦2.0(mm) ≤t		≟ı	≦5.0(mm)	1.0≦ f ≦2.0(IIIII)	<i>≟</i> ₩2
	Up to 2 defects per product		Up to 8 defects per product, but each defects			
			must be 20mm away from each other at each			
Acceptable			side.			
Numbers	X•Y<1.0mm is acceptable		Y<1.0	Y<1.0mm is acceptable		
	But, if the chip reaches to color printing,		But, if the chip reaches to color printing, it is			
	it is unacceptable.		unacceptable.			

### 4. Progressive Crack(same criteria as cover glass and touch screen)

Defect illustration	Judgment
	NG

# 5. Appearance criteria for color-printed area of covering glass (judged from surface view)

Item	Defect contents	Acceptable range	
Color Tone	Different color tone from original	Color Sample etc.	
	color		
Color Peeling	Color print coming off	Unacceptable	
Color Lacking	Color print partly missing	Unacceptable	
Color Running	Ink bleed	The defect should not be over edge fac-	
Scratch	Scratch on color-printed part	Base glass should not be exposed	
Color Unevenness	Color thickness is uneven	Should be no color unevenness that car	
		be easily de	etected.
		(should not be detect	able by gaze for 4
		- 6 seco	onds)
Pinhole through to the	D:average diameter =(longest+	Acceptable quantity	Total acceptable
base glass.	shortest diameters) / 2		quantity
Adhering foreign	0.3≧D>0.2	Up to 2 defects in	
substance which is		φ30mm	Up to 10 defects
different color from the	0.2≧D	Acceptable	per product
printing			
Tilt/Misalignment	_	Should be within tolerances indicated by	
		the drawing	

Revision Date	Rev	Revised Section	Reason
2013.1.30	b	The visual inspection criteria sheet is released	
		to the DMC website.	
2013.6.5	С	Visual inspection criteria are revised.	Visual inspection criteria are
			revised according to the criteria by
			the glass supplier.
2014.10.30	d	Applied sizes are revised.	Criteria for exceeding 32in sizes
			are established.