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LFD,



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**(Spoofing)**

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iPhone 5S가

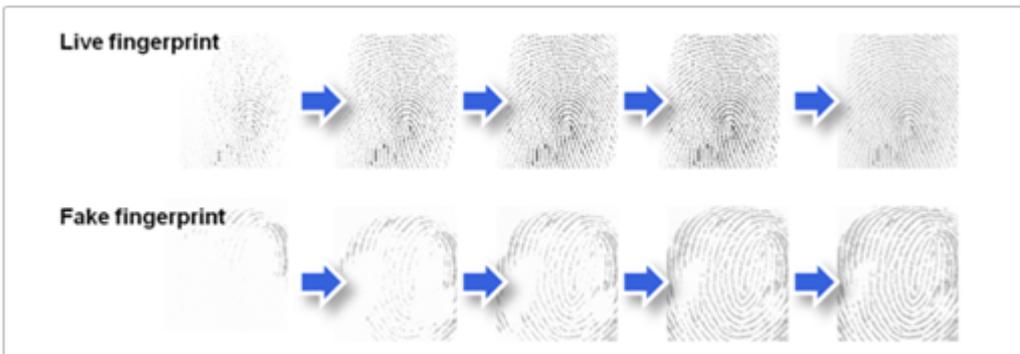
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YouTube

(LFD) &

**(Dynamic changing pattern analysis)**

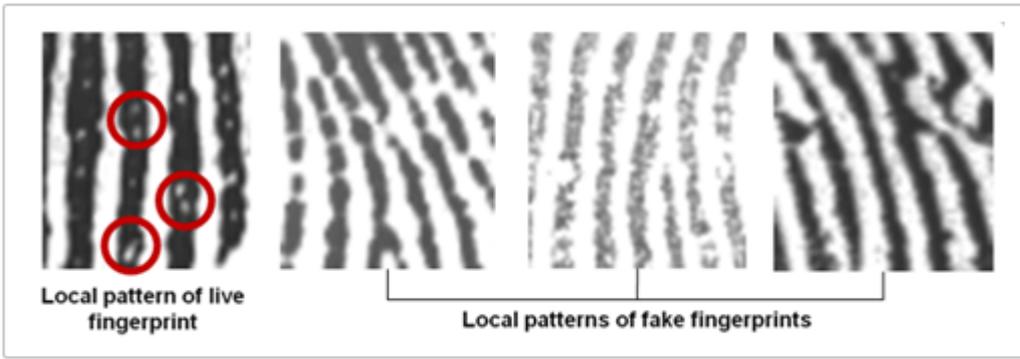
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**(Liveness feature analysis)**

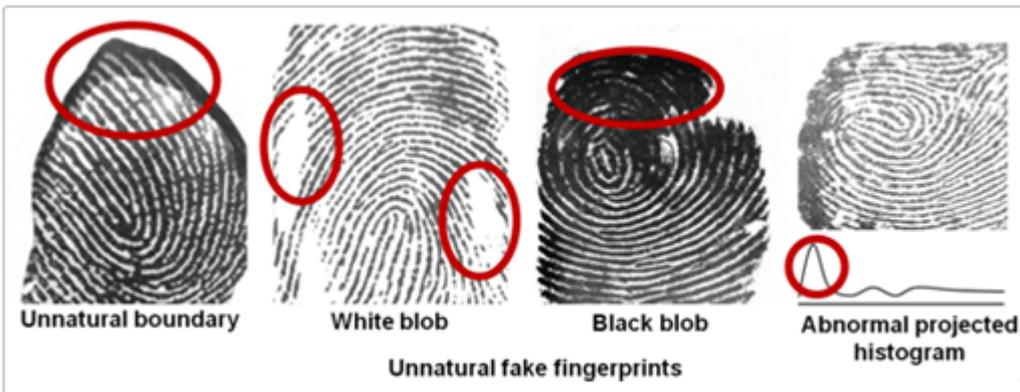
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**(Unnaturalness feature analysis)**

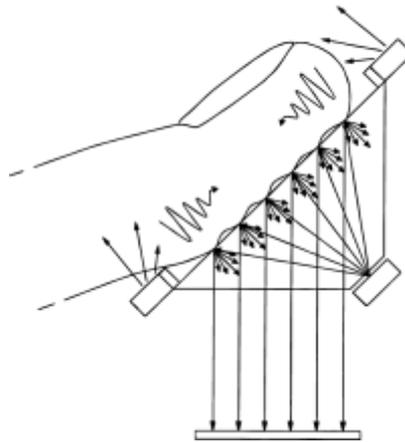
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**LDE (Liveness Decision Engine)**

가 LDE (Liveness Decision Engine) (Dual Light Source Imaging)

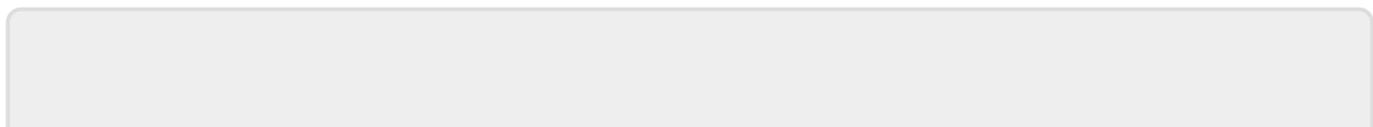
### Dual Light Source Imaging



LDE

OP5

		<b>A</b>	<b>B</b>	<b>BioStation A2</b>
		O	O	O
		O	O	O
		O	O	O
		O	O	O
		X	O	O
	( )	X	X	O
	( )	X	X	O



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