ThinSight: Versatile Multi-touch Sensing for Thin Form-factor Displays

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Best paper, UIST 2007
How does Surface work?

1. Diffuser
2. IR illuminant
3. IR camera
4. Projector
Rear camera

Rich sensing

Film overlay

Thin form-factor
ThinSight: Versatile Multi-touch Sensing for Thin Form-factor Displays
LCD and polarizers
LCD and polarizers

Backlight
LCD and polarizers
Backlight

LCD and polarizers
LCD and polarizers

Backlight

Reflector

LCD and polarizers
Image sensor
LCD panel

emitter
detector

optosensor array
Experiences with Building a Thin Form-factor Touch and Tangible Tabletop

IEEE Tabletop 2008
video

IEEE Tabletop 2008
Thank you