WHAT’S NEW IN MOBILE?
SHIELD TABLET UPDATE FOR IEEE CESOC

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December, 2014
MOBILE READY FOR DIFFERENTIATION
DIFFERENTIATION
TWO WAYS

Product

Platform
ULTIMATE ANDROID GAMING

"NVIDIA’s Shield Just Became The Best Handheld Gaming Console Available”
— Forbes

“Even if you don’t take advantage of its gaming prowess, the Nvidia Shield Tablet is one of the most versatile -- and affordable -- high-performance 8-inch Android slates you can buy”
— CNET

SHIELD PORTABLE

SHIELD TABLET

SHIELD CONTROLLER
ULTIMATE ANDROID GAMER EXPERIENCES

PLAY GAMES ANYWHERE

TURN TABLET INTO CONSOLE

PLAY PC GAMES ANYWHERE

STREAM TO TWITCH

STREAM PC GAMES FROM CLOUD

PAINT IN 3D
FAST AP – TK1

- iPad mini 3
- Tab S 8.4
- SHIELD Tablet

Tests:
- 3DMarkUnlimited Total
- GLB 2.7 TREX
- Basemark ES 3.0 (Rush)
- Basemark X 1.1 (High)
- GFXBench 3.0 Manhattan

Tab S - Exynos 5 Octa; iPad mini 3 - A7 64bit
ADVANCED GPU BRINGS AMAZING VISUALS TO MOBILE

<table>
<thead>
<tr>
<th>Feature</th>
<th>Tegra K1 Kepler Graphics</th>
<th>GeForce TITAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenGL ES 3.1</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>AEP</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>OpenGL 4.4</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DX12</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tessellation</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CUDA 6.0</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Power</td>
<td>&lt;2W</td>
<td>250W</td>
</tr>
</tbody>
</table>
DESIGNED FOR ANDROID AND STREAMED PC GAMES

Latency (lower is better)

<table>
<thead>
<tr>
<th>SHIELD Wireless Controller</th>
<th>Bluetooth Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>10ms</td>
<td>20ms</td>
</tr>
</tbody>
</table>

- Android Navigation
- Microphone for Voice Search
- WiFi for Low Latency
- Volume Control
- Start / Select for PC Games
- Access PC GameStream
- Touch Pad
GEFORCE GAMING FROM THE CLOUD

12x PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>PlayStation Now</th>
<th>GRID</th>
</tr>
</thead>
<tbody>
<tr>
<td>GFlops</td>
<td>2,448</td>
<td>192</td>
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</table>

2x FASTER START TIME

<table>
<thead>
<tr>
<th></th>
<th>PlayStation Now</th>
<th>GRID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secs</td>
<td>52</td>
<td>23</td>
</tr>
</tbody>
</table>

2x FRAME RATE

<table>
<thead>
<tr>
<th></th>
<th>PlayStation Now</th>
<th>GRID</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPS</td>
<td>60</td>
<td>30</td>
</tr>
</tbody>
</table>

(lower is better)
SHIELD TABLET SOFTWARE UPGRADE

ANDROID 5.0 LOLLIPPOP

DABBLER 2.0

GRID

SHIELD HUB

Y-CABLE SUPPORT

MEMORY & PERF OPTIMIZATIONS

4K VIDEO CONSOLE MODE

Available App Memory

PC Mark (Memory)

OTA 2.0
OTA 1.2.1

4K
YOU DON'T TAKE A PHOTOGRAPH, YOU MAKE IT.
ANSEL ADAMS
Local Tone Mapping on TK1 GPU

- High throughput for HD pixel-by-pixel processing at video rates
- Flexibility to control LTM settings for creative looks
- 5+ GFLOPS for HD @ 30 FPS

\[
\text{FLOPS/pixel} \times 1280 \times 720 \text{F} \times 30 \text{F/s} = 5.5 \text{ GFLOPS}
\]
LTM HD EFFECTS STYLES

Enhanced → Original → Dramatic

Beauty → Natural → Vivid
HAVING FUN WITH A PLAYFUL CAMERA

SHIPPING SHORTLY -- LIVE-PREVIEW HD & LTM EFFECTS