
Subject: Re: Luner-Landings - What do you think.
Posted by [Crimson](#) on Mon, 31 Jul 2006 23:26:16 GMT
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Oblivion165 wrote on Mon, 31 July 2006 16:19 Yes im aware, however there is equipment that could be used not just orbiting satellites.

No. There isn't. Even the hubble telescope doesn't have the resolution to do it.

The wavelength of visible light is around $550 \times 10^{-9} \text{m}$ (i.e. very very small).

The diameter of Hubble's mirror is 2.4m.

Highest ever physically possible resolution = $1.4 \times 550 \times 10^{-9} / 2.4 \text{ m} = 3.2 \times 10^{-7}$ radians

At a distance of 350,000km this works out as about 124 metres. This is roughly the size of a football field.

Even if the Hubble telescope had the highest possible resolution, it still couldn't see the landing site from Earth!

Keep your eye on the SELENE project, however. It's a Japanese project, part of which is taking close pictures of the moon's surface at a resolution where we CAN see the landing site in order to map the entire moon.
