Comparison of Optics for Imaging The Moon

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300 mm camera lens on a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is too small.

Note: We are now in the realm of focal length being of primary concern.
300 mm camera lens and 2X Teleconverter on a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is fair.
80 mm x 600 mm refractor telescope with a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is fair and similar to the 300 mm camera lens with a 2x teleconverter.
80 mm x 600 mm refractor telescope and 2X Barlow lens with a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is good.
100 mm x 900 mm refractor telescope with a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is fair to good.
100 mm x 900 mm refractor telescope and 2X Barlow Lens with a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is too great unless only a partial close up view is desired.
127 mm x 1250 mm SCT telescope with a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is ideal.
127 mm x 1250 mm SCT telescope and 2X Barlow lens with a Nikon D3300 Camera

The field of view is shown within the red rectangle

Note: Magnification is too great unless only a partial close up view is desired.