WHAT IS CLAIMED IS:

1. An ultrasound imaging system configured for reducing imaging artifacts, comprising:

an ultrasonic probe comprising:

an ultrasound imaging transducer adapted for imaging a tissue region,

a housing comprising an acoustic window,

a dynamic offset distance between the ultrasound imaging transducer and the acoustic window, wherein the dynamic offset distance changes over time, wherein the dynamic offset distance comprises a first offset distance and a second offset distance, wherein the first offset distance is different than the second offset distance,

an acoustic coupling medium within the housing configured to acoustically couple the ultrasound imaging transducer to the acoustic window,

a motion mechanism for moving the ultrasound imaging transducer in a first direction and a second direction,

wherein the ultrasound imaging transducer images with a focal zone sequence order (f_1, …, f_N), where N>2 when travelling in the first direction,

wherein the ultrasound imaging transducer images with a second focal zone sequence order (f_1,…, f_N) when travelling in the second direction; and

a control module coupled to the ultrasonic probe for controlling the ultrasound imaging transducer,

wherein the control module is configured to reduce at least one multipath echo artifact via a dynamically set pulse repetition interval.

2. The ultrasound imaging system of Claim 1, wherein the dynamically set pulse repetition interval is further configured to:

measure the first offset depth;

calculate a first offset time based on the first offset depth;

multiply the first offset time by an integer to determine a presence of the at least one multipath echo artifact; and

select a pulse repetition interval configured to position the at least one multipath echo artifact outside of a displayed ultrasound image.

3. An ultrasound imaging system configured for reducing imaging artifacts, comprising:

an ultrasonic probe comprising:

an ultrasound imaging transducer adapted for imaging a tissue region,

a housing comprising an acoustic window,

a dynamic offset distance between the ultrasound imaging transducer and the acoustic window, wherein the dynamic offset distance changes over time, wherein the dynamic offset distance comprises a first offset distance and a second offset distance, wherein the first offset distance is different than the second offset distance,

an acoustic coupling medium within the housing configured to acoustically couple the ultrasound imaging transducer to the acoustic window,

a motion mechanism for moving the ultrasound imaging transducer in a first direction and a second direction,

wherein the ultrasound imaging transducer images with a focal zone sequence order (f_1, …, f_N), where N>2 when travelling in the first direction,

wherein the ultrasound imaging transducer images with a second focal zone sequence order (f_1,…, f_N) when travelling in the second direction; and

a control module coupled to the ultrasonic probe for controlling the ultrasound imaging transducer,

wherein the control module is configured to reduce at least one multipath echo artifact via a dynamically set one or more focal zone blend points.

4. The ultrasound imaging system of Claim 3, wherein the at least one dynamically set focal zone blend point is further configured to:

measure the first offset depth;

calculate a first offset time based on the first offset depth;

multiply the first offset time by an integer to determine a presence of the at least one multipath echo artifact; and

select at least one focal zone blend point configured to position the at least one multipath echo artifact outside of a displayed ultrasound image.

5. The ultrasound imaging system of any one of Claims 1 - 4, wherein the dynamic offset distance varies based on a changing volume of the acoustic coupling medium, wherein the changing volume of the acoustic coupling medium is a result of evaporation or leaking of the acoustic coupling medium from the housing.

6. The ultrasound imaging system of any one of Claims 1 - 4, wherein the dynamic offset distance varies based on a changing temperature of the acoustic coupling medium.

7. The ultrasound imaging system of any of the preceding claims, wherein the dynamic offset distance varies based on a changing pressure of the acoustic coupling medium.

8. The ultrasound imaging system of any one of Claims 1 - 4, wherein the dynamic offset distance varies with a speed of the motion mechanism in at least one of the first direction and the second direction.

9. The ultrasound imaging system of any one of Claims 1 - 4, further comprising a therapy transducer configured to apply ultrasonic therapy to the tissue.

10. The ultrasound imaging system of any one of Claims 1 - 4, wherein N = any one of 2, 3, or 4.

11. An ultrasound imaging system configured for reducing imaging artifacts, comprising:

an ultrasonic probe comprising:

an ultrasound imaging transducer adapted for imaging a tissue region,

a housing comprising an acoustic window,

a dynamic offset distance between the ultrasound imaging transducer and the acoustic window, wherein the dynamic offset distance changes over time, wherein the dynamic offset distance comprises a first offset distance and a second offset distance, wherein the first offset distance is different than the second offset distance,

means for moving the ultrasound imaging transducer in a first direction and a second direction, and

a control module coupled to the ultrasonic probe for controlling the ultrasound imaging transducer,

wherein the control module is configured to reduce at least one multipath echo artifact via a dynamically set pulse repetition interval.

12. An ultrasound imaging module configured for reducing imaging artifacts, comprising:

an ultrasound imaging transducer adapted for imaging a tissue region,

a housing comprising an acoustic window,

a dynamic offset distance between the ultrasound imaging transducer and the acoustic window, wherein the dynamic offset distance changes over time, wherein the dynamic offset distance comprises a first offset distance and a second offset distance, wherein the first offset distance is different than the second offset distance,

means for moving the ultrasound imaging transducer in a first direction and a second direction, and

a control module coupled to the ultrasonic probe for controlling the ultrasound imaging transducer,

wherein the control module is configured to reduce at least one multipath echo artifact via a dynamically set pulse repetition interval.

13. The ultrasound imaging module of Claim 12, wherein the at least one dynamically set focal zone blend points is further configured to:

measure the first offset depth;

calculate a first offset time based on the first offset depth;

multiply the first offset time by an integer to determine a presence of the at least one multipath echo artifact; and

select a at least one focal zone blend point configured to position the at least one multipath echo artifact outside of a displayed ultrasound image.

14. An ultrasound imaging device configured for reducing imaging artifacts, comprising:

an ultrasonic module comprising:

an ultrasound imaging transducer adapted for imaging a tissue region,

a housing comprising an acoustic window,

a dynamic offset distance between the ultrasound imaging transducer and the acoustic window, wherein the dynamic offset distance changes over

time, wherein the dynamic offset distance comprises a first offset distance and a second offset distance, wherein the first offset distance is different than the second offset distance,

means for moving the ultrasound imaging transducer in a first direction and a second direction, and

a control module coupled to the ultrasonic probe for controlling the ultrasound imaging transducer,

wherein the control module is configured to reduce at least one multipath echo artifact via a dynamically set pulse repetition interval.

15. The ultrasound imaging device of Claim 14, wherein the dynamically set at least one focal zone blend point is further configured to:

measure the first offset depth;

calculate a first offset time based on the first offset depth;

multiply the first offset time by an integer to determine a presence of the at least one multipath echo artifact; and

select at least one focal zone blend point configured to position the at least one multipath echo artifact outside of a produced ultrasound image.

16. The ultrasound imaging device of any one of Claims 14-15, wherein the dynamic offset distance varies based on a changing volume of the acoustic coupling medium, wherein the changing volume of the acoustic coupling medium is a result of evaporation or leaking of the acoustic coupling medium from the housing.

17. The ultrasound imaging device of any one of Claims 14-15, wherein the dynamic offset distance varies based on a changing temperature of the acoustic coupling medium.

18. The ultrasound imaging device of any one of Claims 14-15, wherein the dynamic offset distance varies based on a changing pressure of the acoustic coupling medium.

19. The ultrasound imaging device of any one of Claims 14-15, wherein the dynamic offset distance varies with a speed of the mechanism in at least one of the first direction and the second direction.

20. The ultrasound imaging device of any one of Claims 14-15, further comprising a therapy transducer configured to apply ultrasonic therapy to the tissue.

21. The ultrasound imaging device of any one of Claims 14-15, wherein N = any one of 2, 3, or 4.

22. A method of reducing multipath echo artifacts from an ultrasound image, comprising:

providing an ultrasonic probe comprising:

an ultrasound imaging transducer adapted for imaging a tissue region,

a housing comprising an acoustic window,

a dynamic offset distance between the ultrasound imaging transducer and the acoustic window, wherein the dynamic offset distance changes over time, wherein the dynamic offset distance comprises a first offset distance and a second offset distance, wherein the first offset distance is different than the second offset distance,

an acoustic coupling medium within the housing configured to acoustically couple the ultrasound imaging transducer to the acoustic window,

a motion mechanism for moving the ultrasound imaging transducer in a first direction and a second direction,

wherein the ultrasound imaging transducer images with a focal zone sequence order (f_1, …, f_N), where N>2 when travelling in the first direction,

wherein the ultrasound imaging transducer images with a second focal zone sequence order (f_1,…, f_N) when travelling in the second direction; and

measuring a first offset depth;

calculating a first offset time based on the first offset depth;

multiplying the first offset time by an integer to determine a presence of the at least one multipath echo artifact; and

selecting a pulse repetition interval configured to position the at least one multipath echo artifact outside of a displayed ultrasound image.

23. A method of reducing multipath echo artifacts from an ultrasound image, comprising:

providing an ultrasonic probe comprising:

an ultrasound imaging transducer adapted for imaging a tissue region,

a housing comprising an acoustic window,

a dynamic offset distance between the ultrasound imaging transducer and the acoustic window, wherein the dynamic offset distance changes over time, wherein the dynamic offset distance comprises a first offset distance and a second offset distance, wherein the first offset distance is different than the second offset distance,

an acoustic coupling medium within the housing configured to acoustically couple the ultrasound imaging transducer to the acoustic window,

a motion mechanism for moving the ultrasound imaging transducer in a first direction and a second direction;

calculating a first offset time based on the first offset depth;

multiplying the first offset time by an integer to determine a presence of the at least one multipath echo artifact; and

selecting at least one focal zone blend point configured to position the at least one multipath echo artifact outside of a displayed ultrasound image.

24. The method of any one of Claims 22-23, further comprising:

imaging a tissue, and

displaying the tissue.

25. The method of any one of Claims 22-23, further comprising:

imaging a tissue, and

displaying the tissue,

without treating the tissue.

26. The method of any one of Claims 22-23, further comprising:

treating a tissue.

27. An ultrasound imaging system configured for reducing imaging misalignment, comprising:

an ultrasonic probe comprising an ultrasound therapy transducer adapted to apply ultrasonic therapy to tissue, an ultrasound imaging transducer adapted for imaging the tissue, and a motion mechanism for moving the ultrasound imaging transducer in a first direction and a second direction,

wherein the ultrasound imaging transducer is mechanically attached to the motion mechanism,

wherein the first direction is opposite the second direction,

wherein the ultrasound imaging transducer images with a focal zone sequence order (f_1, …, f_N), where N>1 when travelling in the first direction,

wherein the ultrasound imaging transducer images with a second focal zone sequence order (f_1,…, f_N) when travelling in the second direction,

wherein a spatial registration between the first direction imaging and the second direction imaging is improved by staggering a triggering location,

wherein the ultrasound imaging system employs a directionally dependent focal zone sequencing (f_1, …, f_N) and (f_1, …, f_N) on consecutive A-lines; and

a control module coupled to the ultrasonic probe for controlling the ultrasound imaging transducer.

28. The method of Claim 27, wherein N = any one of the group consisting of: 2, 4, 6, and 8.

29. The ultrasound imaging system of Claim 27, wherein the first direction of motion of the transducer is any one or more of the group consisting of: linear, rotational, and curved; wherein the second direction is the reversed path of the first direction.

30. The ultrasound imaging system of any one of Claims 27-29, wherein the ultrasonic treatment is at least one of: a face lift, a brow lift, a chin lift, an eye treatment, a wrinkle reduction, a décolletage improvement, a buttock lift, a scar reduction, a burn treatment, a skin tightening, a blood vessel reduction, a treatment of a sweat gland, a sun spot removal, a fat treatment, a cellulite treatment, a vaginal rejuvenation, an acne treatment, and abdominal laxity treatment.

31. An ultrasound imaging system having one or more of the features described in the foregoing description.

32. A method of reducing imaging misalignment in a moving ultrasound transducer having one or more of the features described in the foregoing description.