signals therefrom, wherein the signals provided thereto include signals for configuring the transducers as either one of the one or more transmitters or one of the one or more receivers.

20. The apparatus in accordance with Claims 19 wherein the probe comprises four transducers located on the probe to form a rhombus shape.

~~21. A probe for non-destructive testing of a composite structure comprising:~~

three or more transducers wherein each of the three or more transducers are separately configurable as a transmitter or as a receiver; and

a controller coupled to each of the three or more transducers for providing signals thereto and receiving signals therefrom, wherein the signals provided thereto include signals for configuring each of the three or more transducers as either a transmitter or a receiver and signals for providing an excitation signal having a predetermined time, a predetermined amplitude and a predetermined frequency from each of the three or more transducers which is configured as a transmitter.

22. The probe in accordance with Claim 21 wherein each of the three or more transducers is equally spaced one from another.

23. The probe in accordance with either of Claims 21 or 22 wherein the probe ~~comprises four transducers located on the probe to form a rhombus shape.~~

24. The probe in accordance with any of Claims 21 to 23 wherein the controller provides signals to the three or more transducers to configure each of the transducers as either a transmitter or a receiver in order to reduce overlap of scanned portions of the composite structure.