

**JRC**



# Handy Search

## NJJ-95B

The NJJ-95B is the latest upgraded version of the highly reputable NJJ-95A "Handy Search" Reinforced Concrete Radar.

The NJJ-95B can sense the depth of up to 30 cm; 10 cm deeper than the conventional device.



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# Deeper-sensing “Handy Search” has been released!

More and more requests for quality assurance inspection on concrete buildings have been made in recent years. When a concrete building is repaired, rebuilt, or maintained, there is the potential problem of accidentally cutting a reinforcing steel bar, electrical conduit and wiring, gas pipes, or plumbing.

To perform quality assurance inspection and avoid such an accident, “Handy Search” has been developed as a nondestructive search device that can sense deep in concrete buildings.

## Principle

### Principle of Handy Search

This device radiates electromagnetic waves through a concrete surface and receives reflected signals from objects such as reinforcing steel bars, cavities, or other objects that have different electrical characteristics from concrete. Object location and depth are then displayed and recorded as image data.

## New Functions

(In comparison with our NJJ-95A)

### Depth sensing capability of up to 30 cm in deep mode

The NJJ-95B can sense the depth of up to 30 cm compared to the previous conventional model, NJJ-95A, which can sense the depth of up to only 20 cm.

### Shallow area analysis in shallow mode

The NJJ-95B zooms in the shallow area on the search screen and sets the resolution of covering depth to about 1 mm, thereby performing more detailed analysis than the NJJ-95A.

### Increased CF memory card capacity

The capacity of attached CF memory card has been increased from 64MB to 512MB. The memory card can contain about 200 data items of 15 m search distances.

### Easy-to-use operation keys

Visibility and operability have been improved by creating operation keys with phosphorescent materials and providing an easy-to-press protrusion to each key.

## Main Features

### Compact and weight saving

The integration of the main-body display with an antenna section makes the device compact. It weighs only 1.1 kg which enables you to operate it with one hand.

### Search of both metallic and non-metallic objects

The radar system makes it possible to search for non-metallic items, such as vinyl chloride pipes and cavities, as well as metallic objects, such as reinforcing steel bars. (Only skillful operators are allowed to analyze the image data of non-metallic objects.)

### Data maintenance and replay

A single search operation enables 15 meters worth of data to be saved and replayed.

### Cable-less printing

Implementation of the IrDA function eliminates cable connection and enables the dedicated monochrome printer (optional) to print out data on the spot.

### Real-time surface wave processing

The NJJ-95B quickly performs search operation since it can eliminate surface waves in real time. In addition to fixed surface waves, the NJJ-95B enables the setting of surface waves with data being searched, offering simple operation and high-accuracy search capability.

### Reading/recording of the analysis cursor position

After the search operation, the locations and depths of reinforcing steel bars and the likes can be read and recorded by the XY cursor. (Up to 7 points)