



## The **Smart Box™** System A Complete Fare Collection System

- Balances farebox data with actual cash received from every bus every day,
- Coin and bill counting equipment is integrated into data collection system,
- Heavy collection vaults are not needed—small cashboxes are exchanged,
- Reporting is automatic and easily customizable by non-technical users, and
- All elements of the system can be integrated with equipment and systems from other vendors.

**...and much more. Turn page for details**

**AGENT**

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# The **Smart Box**<sup>™</sup> System

## A Complete Fare Collection System

The **Smart Box**<sup>™</sup> Validating Farebox is supplied as a complete fare collection system with: 1) electronic validating farebox, 2) garage revenue station, 3) money room system, and 4) a central host computer system which combines farebox, garage, and money room data into an accurate picture of daily fare collection operations.

### **Beginning/End of Shift**

The driver logs on at the beginning of the shift and enters all data required to set up a shift/run. The farebox runs through a rapid set of self test diagnostics and goes into operation.

When returning to the garage at the end of a shift/run, the driver enters the specified bus lane for revenue service. All farebox transaction information is uploaded to the garage revenue station using a contactless infrared data probe.

Upon completion of data probing operation, the farebox automatically opens the revenue access door. The cashbox is removed by the revenue service agent, and replaced with an empty cashbox. The cashbox automatically and securely locks before removal from the farebox. The cashbox is not opened again until it reaches the money room for counting.

No cash is visible at any time to any personnel during revenue service.

### **Money Room Operations**

The cashboxes which have been removed from buses are moved to the money room using special cashbox carts with locking shelves. At the money room, treasury keys are used to unlock the cashbox cart, and the cashboxes can now be removed. In order for the money to be removed, each cashbox must be placed in a latching cradle which contains an electronic I.D. number reader and a mechanical interface which allows rapid unlocking of the cashbox in combination with the cashbox key.

When the cover is opened, the banknotes can be removed in one stack, ready for counting using a standard bill counting machine, without hand sorting and facing. Coins can be dumped into an automatic coin counting and sorting system.

When the coin and bill counting batches are finished for each cashbox and the cashbox is removed from the latching cradle, the money count data, along with the vault I.D. number, is sent to the central host computer for comparison to the count information from the farebox. The entire process of bill and coin counting can be accomplished in a matter of a few seconds per cashbox. The empty cashboxes are now placed back on the cashbox carts, open and ready for the next day's operation.

### **Data Processing Operations**

A complete data processing and accounting package is supplied which provides all needed basic information relating to fare collection operations on a run-by-run basis. Tools are provided to enable management to develop custom reports of any kind. Also, assistance is given with the integration into Global Positioning Systems (GPS) and passenger counting systems to provide even more accurate passenger loading and traffic counts for each individual bus stop.

Both transaction-based and summary data is generated from daily data downloaded from each bus and is made available to the report generation engine of the central host computer. Files are available also for export to and manipulation by any standard desktop database or spreadsheet application.

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