

# TVM-360

## Ticket Vending Machine

The TVM-360 is an attractive and reliable outdoor Ticket Vending Machine for customer-friendly sales at bus stops and stations, at tramway platforms or metro stations.

TVM-360 is extremely easy for passengers to operate meeting this way-one of the most important criteria of public transport access to passengers. TVM-360 is so versatile that can provide the best possible access to local public transport networks to people with varying capabilities in different situations without any additional engineering or adjustments.

Thanks to our universal design, initiative the TVM-360 is reliable in all climates, offering proper and uninterrupted operation under harsh environments with extremely high or low temperatures and/or contaminated air. Furthermore, the TVM-360 is a heavy-duty device, able to resist common vandal attacks easily.

AMCO has developed a user-friendly interface for enabling passengers to purchase the ticket of their choice, recharging their smart cards or issuing a new smart card, paying with a wide range of possibilities (coin, banknotes, smart cards, bank cards, NFC, QR codes).



## Key Features

- Maximum security against vandalism
- Robust, modular and upgradeable device
- Reliable in all climates
- 15" sunlight readable touch TFT color display
- Ultra-wide sunlight readable display for information as an option
- Payment system: coins, banknotes, credit/debit cards (EMV), contact smart cards, contactless smart cards, NFC
- Scanner for processing of barcode tickets as option
- 2 positions for ticket / paper smart card high speed printers or plastic smart card dispensers
- Up to 4 rolls for tickets or paper smart cards or up to two stacks for plastic smart card dispenser
- Low maintenance and service-friendly thanks to modular construction
- Real-time alarm notifications and transactions data transfer to central office



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Technologies

# TECHNICAL SPECIFICATIONS

## Processing Unit

- Industrial PC
- Embedded Linux operating system
- 15'' anti-vandal TFT sunlight readable display
- Projected capacitive touch sensor
- Optional Ultra-wide sunlight readable display for passenger information
- Protected by 6mm UV/IR filtering glass

## Display

## Coin Handling

- Tamper resistant coin validator
- Electromechanical shutter at coin insertion opening
- Up to 6 coin recycling vaults with capacity of 50 coins each
- 3 easy replacement coin hoppers with capacity of more than 1000 coins each
- Escrow capability

## Bank Note handling

- Secure Banknote validator
- Shutter for secure and outdoor operation
- Escrow mechanism for up to 15 Banknotes
- Optional banknote recyclers (Up to 4)/Optional banknote loader
- Cashbox up to 1400 banknotes

## Money Handling Security

- Improved security with closed loop cash moving system (no access to the cash for unauthorized personnel)

## Electronic Ticketing

- Smart card reader supporting ISO/IEC 14443 Type A and B A SAM sockets for ID000 format, support for MIFARE classic, MIFARE DESFire, MIFARE Pro, MIFARE Plus, MIFARE Ultralight, Calypso
- Scanner for processing of barcode tickets
- NFS

## Bank Cards Payment

- Payment terminal with 16-Key keypad for processing debit/credit cards
- EMV Level 1, EMV Level 2 certificated application

## Communications

- LAN Ethernet 10/100 Mbit
- Optional WLAN, GSM, GPRS, EDGE, UMTS, LTE

## Environment

- Operating temprature: -20°C to +55°C
- Storage temprature: -30°C to +65°C
- Humidity: 15% to 95% non-condensing
- Optional air condition

## Power Supply

- 230 V AC. integrated UPS

## Housing

- Material: Stainless steel 2mm for the main body and 3mm for the door
- Protection IP54. Slots IP34, 33
- Vandalism-safe door with 6-point lock
- Dimensions: Height 1900mm(2050mm with A/C), Width 900mm, Depth 630mm
- Weight approx. 300kg

## Compliance

- CE, EN 14450, EN 1300, EN 62262 - IK10, EN 60529

## Extras

- GPS-GNSS positioning, wide-angle surveillance camera, guidance audio system

# TVM-360

Technical data are subject to change without any prior notice | TVM\_360\_version4.0\_June 2023