SmartTouch™ Insert User Manual

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embedcard.com

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Notice
All images presented in this document are for illustration purposes only.

All procedures in this document assume a degree of technical knowledge, only persons with the appropriate qualifications and experience should implement these procedures.

Safety Information

This guide assumes that the installer is qualified to work on electrical devices, with electronic skills and experience working with arcade machines.

Do not use in life critical or applications requiring high reliability
The SmartTouch Insert is not intended for use in systems that may affect human life or that require a very high degree of reliability such as medical equipment, nuclear facilities, aerospace equipment or transportation equipment. Embed does not assume any liability for accidents resulting in injury or death, or for any damages to property that may occur as a result of using the product in such facilities, equipment, or control systems.

Protecting against electrostatic discharge
Electrostatic discharge can damage electronic components including the Embed SmartTouch Insert. Please observe electrostatic discharge precautions for handling or installing this equipment.

Power Supply Details Range
In some markets the SmartTouch Insert includes a recommended universal power supply requiring mains input of 100-240VAC, 50/60Hz, 0.5A.

Other information and warnings:

- Embed SmartTouch Insert is intended for operation between 55 ^{0}C and -20 ^{O}C (131 ^{0}F and -4 ^{O}F).
- Embed Smart-Touch Insert not intended for domestic use.

Introduction

This manual describes the requirements and steps needed to successfully install the SmartTouch Insert. The scope of this document covers the hardware installation and the interface to common game types such as Video, Redemption and Coin Action.

Major Components

The Smart-Touch Insert

The SmartTouch Insert is the guest facing device that features a touchscreen display and is capable of accepting both traditional magnetic and contactless type cards. Guests will tap or insert their card for the primary purpose of transacting at games and attractions.

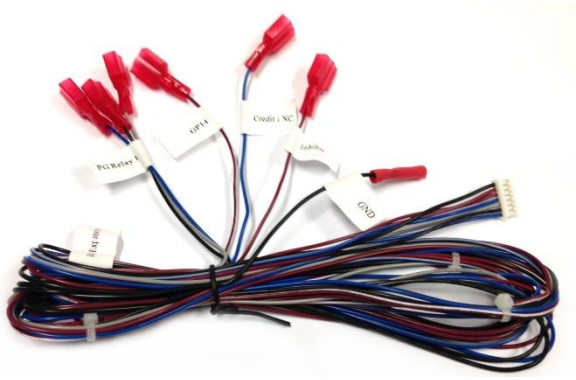
The device can be mounted in portrait or landscape orientations to best suite the game and guest accessibility.

Device accessories

Smart-Touch Insert – IOC Interconnect Harness
A custom USB cable that connects the Smart-Touch reader to the IOC. Supplied in 1.5m and 3m lengths.

IOC Game Interface Harnessing

A range of harnesses providing connection to the most common amusement type games, attractions and other specialist equipment.



Recommended Installation Hardware

The following is a recommended range of hardware to securely install and mount the Smart-Touch Insert . The SmartTouch Inset uses 4mm brass inserts in the base of the enclosure so the appropriate length 4mm metric screws must be used to properly secure the SmartTouch Insert . All other hardware can be adjusted to what is most appropriate and available in your area.

M4 metric, pan head, Philips drive, and zinc coated steel screws.

- Used to secure the Smart-Touch to the surface of the game or attraction.
- Recommended you have lengths of 10mm, 20mm and 25mm available as a minimum.

M4 metric, zinc coated steel washers.

- Recommended these are used under every screw.

M4 metric, zinc coated steel full width nuts

6g Wood Screws used for mounting the IOC inside a wooden cabinet.

Pre-Installation

Before the installation of any hardware, verify the following:

- An adequate earth connection point exists in the game cabinet.
- If the mounting surface is metal, that it is adequately earthed.
- The game credits when a coin is inserted
- The game accurately dispenses tickets
- The coin and ticket meters increment correctly
- Correct any identified faults and retest
- Disconnect the power from the game

It is vital that you are certain the game is in proper working order before beginning the installation of the Embed hardware. This will prevent confusion later in the process.
Never source and use wire taps or wire nuts. Wire taps cut into the wire and make a minimal connection that will deteriorate over time leading to game credit and power supply related problems. Wire nuts also offer a less-than-desirable connection on the small gauge wire used in games.

Wire Tap

Wire Nut

Butt Connector

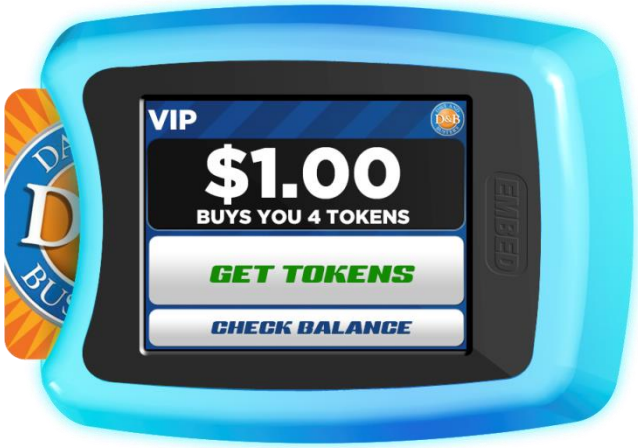
We recommends that crimp type butt connectors be used for wire joins and splicing.

You will need some tools and hardware for the equipment installation and recommend the following as a minimum.

- Multi-meter
- Drill
- 5 mm drill bit
- Step drill bit up to 20mm
- Phillips screwdriver
- Wire stripper
- Crimp tool for connectors
- Butt connectors
- Cable ties

SmartTouch Insert Installation

The SmartTouch Insert best mounted and fixed to a location on the game that ensures it's easily accessible to guests. In many cases it's recommended to mount the Smart-Touch reader over the existing coin entry point as it is readily accessible and allows use of the existing hole for cable entry.
The SmartTouch Insert display can be adjusted to accommodate a portrait or landscape display orientation.



Landscape Orientation

Portrait Orientation

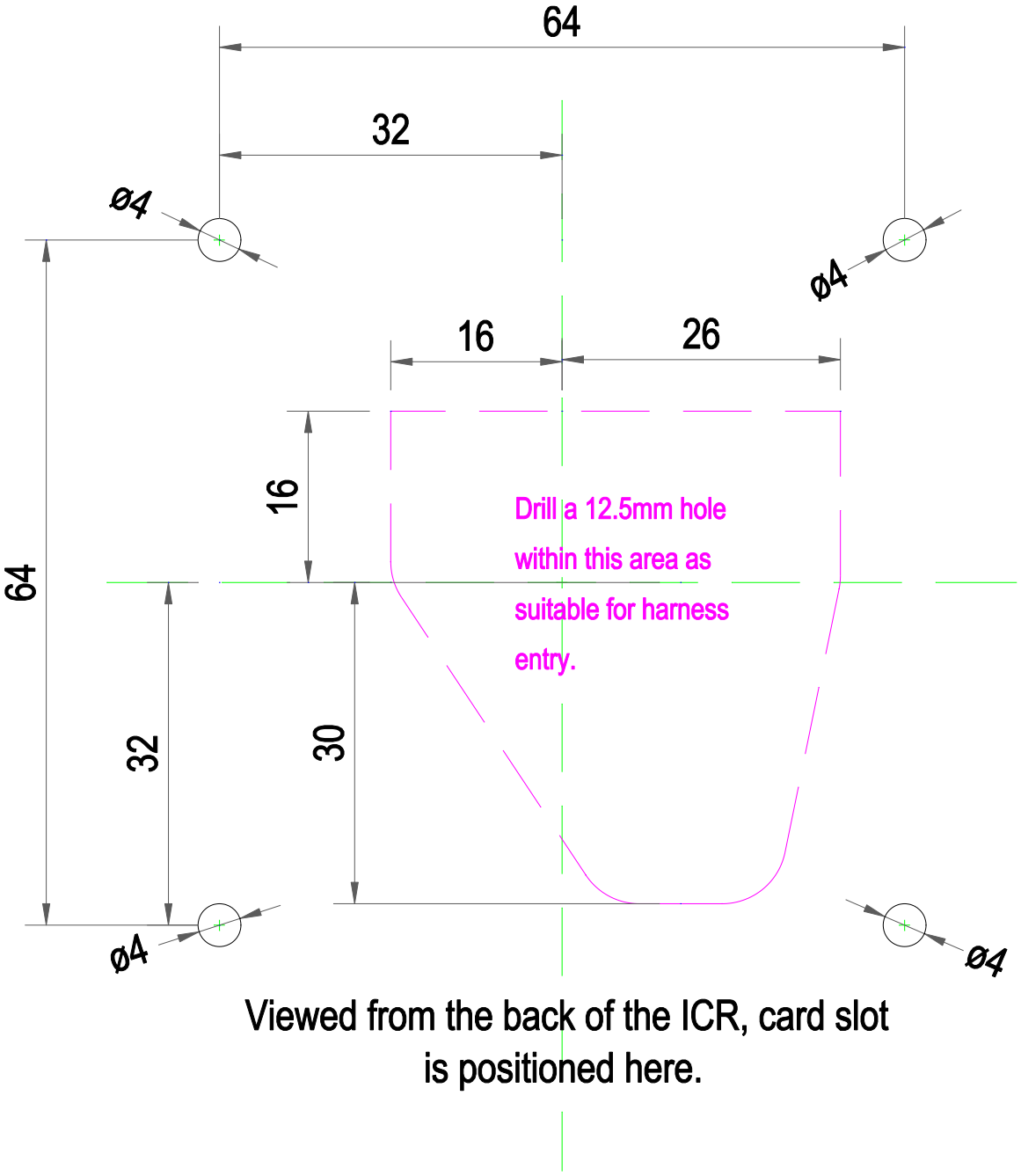
Step 1: Locate the ideal position to mount the SmartTouch Insert.

Step 2: Mark the spots for drilling. Use the SmartTouch Insert mounting template to mark the four mounting points and the cable connection point.

Step 3: Drill the four mounting points with a 5mm drill-bit. Drill the SmartTouch Insert to IOC Interface Harness connection hole with a 12.5mm step drill-bit. Clear the holes of sharp edges to protect the harness.

Step 4: Connect the SmartTouch Insert to IOC Interface harness to the connector in the bottom of the Smart SmartTouch Insert. Feed this through the hole in the cabinet and position the SmartTouch Insert to line up with the screw mounting holes. Insert the correct length 4mm screws into the base of the Smart-Touch reader and tighten.

Template for the Smart-Touch reader mount point drill holes. NOT TO 1:1 SCALE



This template is available in scale PDF format from support@embedcard.com

IOC Installation and Game Installation Connections

Follow intstallation guideline in **720100006 smartTouch Installation Guide** to install the

- IOC controller
- Network Interface
- Standard Game interface to : Video, Redemption and Ticket dispensers

Basic Configuration of the SmartTouch Insert

As with any configurable electronic device, the SmartTouch Insert contains settings that either control or change its behaviour without modifying hardware or software associated with the device.

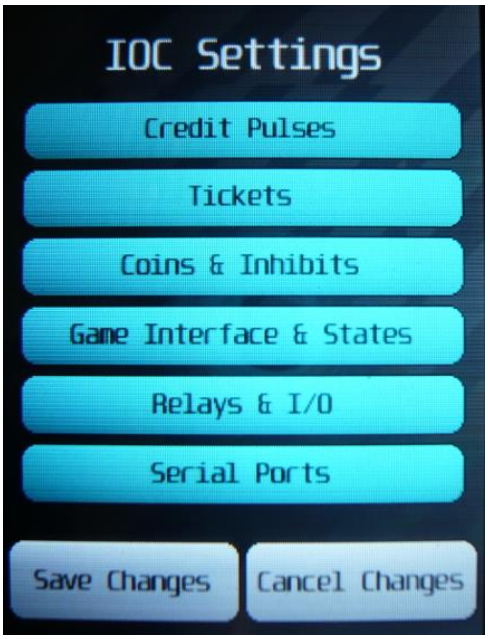
The smartTouch Insert is a smart interactive device and will display messages dianamically to a user to enhance gaming experience. The game configuration is independent of the smartTouch Insert and varies from game type to game type. The user descriptions for interactive gaming messages fall outside the scope of this manual

The following is a general guide to the configuration menus on the SmartTouch Insert which are divided into three main categories:

View Info	-	Displays device information such and product and firmware details.
Configure	-	Opens up further menus for configuring the SmartTouch Insert and IOC.
Test	-	Some hardware tests for validating SmartTouch Insert hardware.

This guide will focus on the “Configure” menu. Select the Configure button to display the Config Mode menu below.

Select the I/O Controller Settings button

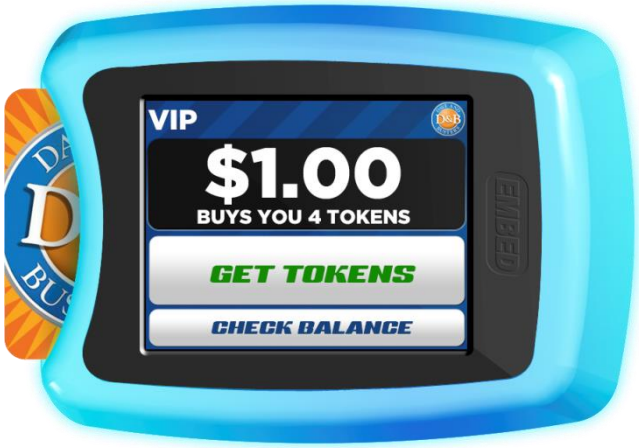


The range of I/O Controller settings available

How it works

The smartTouch Insert is very simple to use . User simply insert their cards in the card slot or tap to transact. The user only needs to ensure the card is correctly oriented when inserting the card , follow the on screen promps or if tapped the crad is tapped within the display area of the smartTouch Insert, The card can be tapped in either face up or face down.
The functions available to the user include :

- E-Ticket collection
- Start/ Play game
- Check Card balance



FCC Part 15B Compliance Statement

RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Any Changes or Modifications not expressly approved by Embed International or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

This device complies with part 15 of the FCC Rules. Operation is subject to the Following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation
To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CE – Declaration of Conformity

The smartTouch Swipe equipment meets the requirement of EC dircetives for CE certification Directives for R&TTE Directive 2014/53/EU the following standards are applied :

Standard	EN 60950-1: 2006+A11: 2009+A1:2010+A12:2011+A2:2013 ETSI EN 301 489-1 V1.9.2, ETSI EN 301 489-3 V1.6.1, ETSI EN 301 489-17 V2.2.1, ETSI EN 300 330-1 V1.7.1, ETSI EN 300 330-2 V1.5.1, EN 62479:2010

Version History

V 0.1	Initial document draft	F. Veldkamp	18/09/2014
V 0.2	Initial document release	M. Easte	24/09/2014
V 0.3	Added IOC LED indications	S.Breet	04/11/2014
V 0.4	Add CE and FCC statement	T Venter	Novr 2017