

# **Basic Installation Guide**

# (Rev.1.0)

# • Warnings and Cautions

<ul> <li>1. Avoid metal contact with device connectors</li> <li>2. Use the device outside the environment with flammable gases</li> <li>If the following situations occur, immediately shut down the host computer, unplug the device, and consult your nearest dealer.</li> <li>1. Smoke, unusual odor or sounds coming from the device</li> <li>2. Dropping the device with visible damage to the cover</li> <li>Never do the following:         <ol> <li>Do not use the device in extremely humid places, or expose it to excessive temperature changes.</li> <li>Do not use the device in extremely humid places, or expose it to excessive temperature changes.</li> <li>Do not place the device without adequate ventilation, under the cloth, in any cover or package.</li> <li>Do not touch or carry this device with your hands wet.</li> <li>Do not use anti-slip gloves containing plasticizers when working with this device.</li> <li>Never use organic solvents such as gasoline, thinners, insecticides, etc. for cleaning. This could result in fire or electric shock.</li> <li>Do not look into the light sources of the device and do not point the light source at the eyes of others. This may cause irreversible eye damage.</li> </ol> </li> <li>On to leave the device in unstable locations where there is a risk of falling and consequent danger of injuring people.</li> <li>Once damage to the power cord is detected, such as damage to the insulation, stop using the device immediately and contact your dealer. Fire or electric shock could occur.</li> </ul>		
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# • Basic Information

This guide provides a brief overview of the information necessary to install the product. More detailed information about the product can be found at <a href="http://www.virtuos.cz/download">www.virtuos.cz/download</a>.

### • Features

- → Coin train with adjustable up to 8 compartments
- → Bill tray of robust plastic construction with adjustable 5 compartments
   → Spring loaded Bill Clips
- → Coin tray and bill tray can be removed from the casing with possibility of adding drawer compartment lid with keys
- → Electronic control of drawer closing by microswitch
- → Universal connector Virtuos<sup>®</sup> RJ50 10p10c allowing to connect any device to the cash drawer
- → Electronic opening independent of voltage level 9 24 V
- → Possibility of inserting checks and banknotes through the slot in the front bezel without opening

# • Specification

• Specification					
Compartments	5 x for bills – removable cash tray				
	8 x for coins – removable coin tray				
Material	Steel Construction with Plastic Front				
Key Lock	3 Positions (locked, electr. opening, opened)				
Connector	RJ50 10p10c for external connecting cable				
Closing check	Internal microswitch (opened = disconnect)				
Recomm. pulse length	100 till 250 ms				
Electrical parameters	Voltage 9V/12V/24V, current max. 1A ±10%				
Interface	Unlimited – depends on external cable				
	choosing; Cable RJ12 24V (P/N EKA0518) is				
	included in the package by default				
Drawer Dimensions	425 (W) × 100 (H*) × 455 (D) mm				
Package Dimensions	474 (W) × 145 (H) × 503 (D) mm				
Weight	8,6 kg (w/o), 9,4 kg (w/ package)				
Ambient temperature	Operating 0 to 50°C, storage -20 to 70°C				
Humidity	5 to 95% non-condensing				
EMI	Complies with CE				
	*measured without 10 mm high rubber feet				

# Cash drawer Virtuos C425C / EKN0112 (black)

Package contents



Note: Keys are attached to the bottom part of the drawer in the plast. bag.

# Optional accessories

- → EKA9020 another plastic cash tray for cash drawer C425
- → EKA9021 additional cover with lock and keys for cash drawer C425C
- → EKN9001 USB adaptor for cash drawer to USB port using virt. serial port
- → EKN9002 RS232 adaptor for cash drawer to serial port

→ For complete spare parts (including bearings, springs, holders, dividers, locks, rubber feet etc.) search on <u>www.virtuos.cz</u>.

# Installation

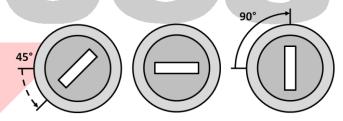
- 1. Turn off the device to which you will connect the cash drawer.
- 2. Insert matching external cable connector\* into **RJ-50 10P10C** socket on the back of the cash drawer.

Plug the second cable connector into the host device socket given for the connecting the drawer (printer, cash register...) or adaptor (USB, RS232).
 Make the software settings of your system according to the supplier's instructions.

\* Cable RJ12 24V (P/N EKA0518) is included in the package, for another cable types, please, look below for an overview of external replaceable cables or look at <u>www.virtuos.cz</u>

# • Basic Lock Functions

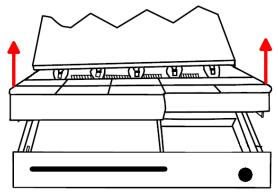
The lock has three positions, the first position 45° to the left returns.



Manual opening Electronic opening Locked Caution: To reduce the risk of key damage or breakage, do not leave the key in the lock during normal operation!

## Removing cash tray

- 1. Open the drawer.
- Gently push the tray towards the inside of the drawer.
- 3. Lift the front part of the tray
- 4. Remove the loose tray by pulling towards you.





# • Emergency opening of drawer

There is connector for the cable connection embedded in the bottom part of the drawer. There is also a manual emergency opening control. It works only in lock position - electronic opening. It is used when the system electronics fails!

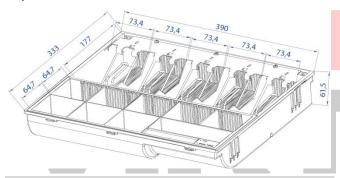


# • Cash tray and coin tray

A sponge placed in the front of the drawer allows you to wet your fingers for better handling the banknotes.



Tray dimensions for banknotes and coins in millimeters:



# Most common malfunctions and their elimination The drawer cannot be electronically opened

If you have everything set up correctly in the cash register system, you have checked the connection and the cable, the problem can be loosened RJ50 connector on the board inside the drawer or solenoid damaged by voltage overload. In this case the repair in Virtuos Service Centre is necessary.

#### 2. The drawer gets opened spontaneously

Most likely, the cause is (after you did not use the drawer for a long time or after keeping it in colder environment) dry or stiff grease in opening mechanism. You can try to open and close the drawer couple times by using a key only which should release the mechanism and return it to the functional state. If this does not help, it is necessary to lubricate the mechanism in Virtuos Service Centre by using a special grease. The cause of a problem can be also a spring that returns the mechanism back to its initial state, in this case the repair (replacement) in Virtuos Service Centre is necessary.

### 3. The opening is tight, it is difficult to open the drawer

Perhaps by mechanical damage, overloading or rough handling of the opening mechanism, the metal rails were deformed or even the guide wheels with ball bearings were destroyed. It is necessary to remove the coin tray, then the cash tray and at the end the whole entire metal sheet mechanism, similar to furniture drawers by moving it up and down. It is necessary to straighten bent sheets or replace them for a new ones, see the spare parts on <u>www.virtuos.cz</u>.

#### 4. The drawer cannot be electronically opened

If you have everything set up correctly in the cash register system, you have checked the connection and the cable, the opening mechanism can be blocked by a foreign object (receipt, banknote...). To be sure, remove the coin train, then the cash tray and at the end slide out the entire roller mechanism of a drawer (by lifting it up and following "unhooking" from its trails). Make sure by looking inside the drawer whether there is not another object and if so, carefully remove it. If this does not help, the problem can also be loosened RJ50 connector on the board inside the drawer or solenoid damaged by voltage overload. In this case the repair in Virtuos Service Centre is necessary.

#### 5. Lost or damaged key

There are limited number of key inserts for the drawers. There is no any universal key, it is always necessary to use the key and insert with the same number. If the drawer is locked, it is necessary to open it first. Either by force – by breaking the insert using flat screw driver and turning with it inside the lock and/or by picking it using, for example, a paper clip. The lock does not have any special security features, i.e. skillful user can open it this way. Please, remember then, the drawer IS NOT SAFE a do not leave it unsecured with having a lot of cash in it. After opening it you can replace the old lock for new one, please, see spare part on www.virtuos.cz.

# • Basic summary of external replaceable cables

External replaceable cables connect the drawer to a host device (POS terminal, printer, cash register etc.). The cables vary according to the types of interfaces of the individual devices that they are meant for. The cable length is usually 1.1 m.

There is RJ12 24V cable (P/N EKA0518) included in the package. This cable is suitable for the most of the POS printers (see specification in the table below). Other cables can be purchased individually on demand.

Cable	P/N	Color	Recommended system
RJ12 24V	EKA0518	black	Most of the POS printers EPSON, Star, OKPRiNT**,
RJ12 24V*	EKA0511	black	USB adaptor EKN9001, RS232 adaptor EKN9002
RJ12 9-12V	EKA05112	black	9-12V cash registers and printers
RJ45 12V	EKA0517	black	Euro 50, Euro mini Efox
RJ45 12V	EKA0520	black	Euro E100, E200, 150TE, Incotex
RJ10 24V	EKA05014	beige	
RJ10 24V	EKA05114	black	Euro 500TX
RJ10 12V	EKA0513	black	Euro 500T, 500TE, 2500
DB15 12V	EKA0514	black	Euro 1000/2000
Univer. w/o connector	EKA0521	black	For you own connection

Like EKA0518 – this is though old version of the cable suitable for the drawer C4x0A only!
\*\* Never mistake 24V cables for their 12V versions, this could lead

to irreversible damage of the drawer or the printer!

If you do not find your system or printer in this table, please contact HOTLINE Virtuos, we will be pleased to advise you and possibly design and manufacture the required cable.

Thanks to the universal RJ50 10P10C Virtuos<sup>©</sup> connector, the cash drawer can be connected to any system by simply changing the cable, i.e. changing the system does not require replacing the entire drawer.

### Basic programming commands and settings

The cash drawer can be electronically opened by sending an electrical pulse to the solenoid, which releases the opening mechanism and the drawer opens. To do so, you need a device or a computer port + control software. The drawer is usually opened directly by the cash register software and in the settings of these programs, the type of drawer and the type of its connection are selected and you do not have to worry about anything. Yet, let us give you some examples of how to do it:

#### 1. By cash drawer

The most common case of opening the drawer is opening it through a POS printer. The drawer is opened when the appropriate control command is sent to the printer. This command is different for each printer model and can be found in the printer's technical documentation. E.g. STAR printers use: *<BEL> (07h)*; EPSON printers use: *<ESC> "p" "0" "6" "6" (1Bh 70h 30h 36h 36h)*. The printer can also monitor the state of the drawer, i.e. whether is opened or closed.

#### 2. By USB or RS232 interface

Another option is to use special additional adaptor, that you will place between the system and the drawer (connecting cable) and you plug it to the POS system (computer, tablet ...). Either directly to the RS232 serial port or USB port, which then will simulate the RS232 interface. You will open the drawer by sending any character directly to a given port. The drawer status, i.e. whether it is opened or close, can be red form serial port control characters. You will find more information in USER manuals of these adaptors. **3.** By cash register

Individual cash drawers have direct function of drawer opening. You only need to select the right cable and connect the drawer to the cash register. Then you should be able to open the drawer directly from the cash register keyboard, after the device prints the receipt or after account closing. In the list of external cables, you will find a complete range of cables needed for Euro cash registers. For other brands or types, the cable can be supplied upon request.

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