

TruWireless Intercom System with Built-in Hallow WiFi Bridge

eyevision®



EV-TRUWL7-KP22

Table of Contents

Description	3
Contents	3
Parameters (Indoor Unit)	3
Parameters (Video Intercom)	3

Setup

Monitor and Intercom Device Setup	4
Monitor and Intercom Device Pairing	4
Connecting to a Smartphone Device	4
Tuya Smart APP	5

Indoor Monitor Operation Instructions

Home Page	6
Records	6
Monitor	6
Mobile Access	7
User Settings	8
System Settings	8
Ring	8
Monitor Door 1	8
Unlock	8

Video Intercom Programming

Modes	9
Enter Administrator Operation Mode	9
Enter Unlocked Mode	9
Default Settings	9
Reset	9
Modify Administrator Code	10
Public Unlock Code	10
Modify Public Unlock Code	10
Delete Public Unlock Code	10
Setup Unlock Mode	10
Modify the Unlock Time of Relay	11
Safety Mode Setup	11
Add Master Card	11
Switch Language	11
Switch Wired/Wireless Mode	11
Add User Card	12
Delete User Card	12
Delete All User Cards	12
User Operations	13

Description

EV-TRUWL7-KP22 is a True Wireless Intercom System with a built-in WiFi Bridge. This system contains two main devices; the indoor monitoring screen in addition to the smart video intercom, these devices are connected through WiFi antennas. The indoor monitoring screen is a 7 inch HD touch screen that allows for remote monitoring of the smart video intercom and its connected locks. It is also compatible with SD cards which can be used to store recorded videos and photos taken from the smart video intercom. With this system a gate or electric lock can be unlocked directly from the smart video intercom keypad or RFID tag area, from the indoor monitoring device or from a smart phone connected through the Tuya Smart App.

Contents

Video intercom device
Indoor monitor unit
Antenna x 2
Extension cable for antenna
Power cable (intercom)
Power cable (indoor unit)
Cable for intercom extensions
Cable for custom intercom power supply
Swipe tag x 2
Assorted screws and spacers
Mount for video intercom
Bracket support

Parameters (Indoor Unit)

Display	7" TFT LCD
Resolution	1024*600
Vibration	Bell \geq 70dB
Power	DC
Current	<350mA
Working Temperature	-20 C ~ +70 C
Max Power Consumption	<5W
Installation	Surface Mounted

Parameters (Video Intercom)

View Angle	7" TFT LCD
Resolution	1024*600
Night Vision	Bell \geq 70dB
Voltage	DC
Standby Current	<350mA
Working Temperature	-20 C ~ +70 C
Relative Humidity	<5W

Setup

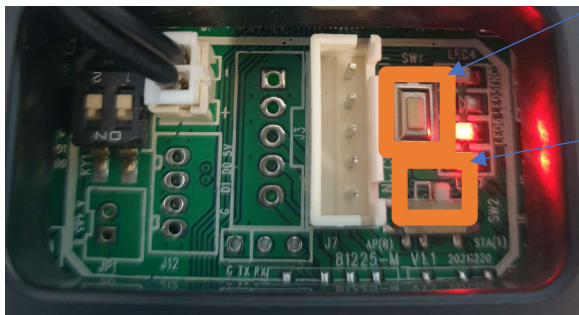
Monitor and Intercom Device Setup

1. Screw an antenna onto the back of the video intercom device.
2. Screw the remaining antenna onto the back of the indoor monitoring device.
3. If required, use the antenna extension cord to reduce the distance or number of obstructions between the two antennas.
4. Connect the power supply to the video intercom device and wait for it to turn on.
5. Connect the power supply to the indoor monitoring device and wait for it to turn on.

Monitor and Intercom Device Pairing

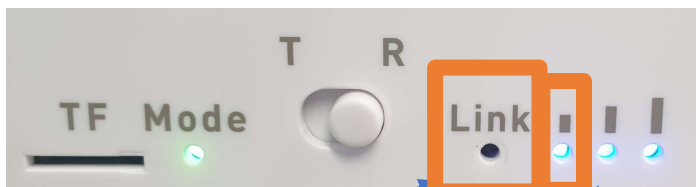
Once the devices have been setup, the next step is to pair the video intercom to the indoor monitor.

1. Dial the slider on the back of the video intercom to the right as seen in the image.
2. Press and hold the button on the back of the video intercom as seen in the image.
3. While still pressing the button on the back of the video intercom press and hold the Link button on the back of the indoor monitor. A thin rod will be needed to complete this step.
4. Once the light to the right of the Link button flashes quickly, the devices have successfully been paired and the buttons can be released.



Press and hold this button while pairing

Slide this button to the right



Press and hold this button while pairing

This light flashes quickly when pairing is successful

Connecting to a Smartphone Device

Connecting to Wifi on the indoor monitor:

1. On the main page click on Mobile Access → Cloud Intercom → Wifi Connection.
2. Click on the Wifi network and then press connect.
3. Input the password and press enter.
4. The device will now be connected to Wifi.

Display the QR code on the indoor monitor:

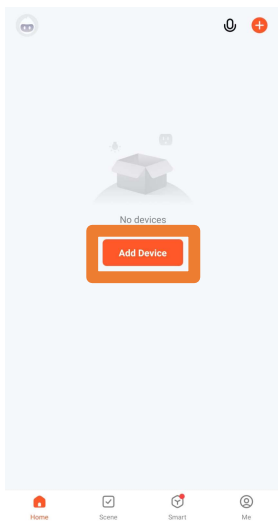
1. On the main page click on Mobile Access → Cloud Intercom → QRCode.
2. The QR code will appear on the display.
3. This QR code is used in later steps.

Connecting to the Tuya Smart App:

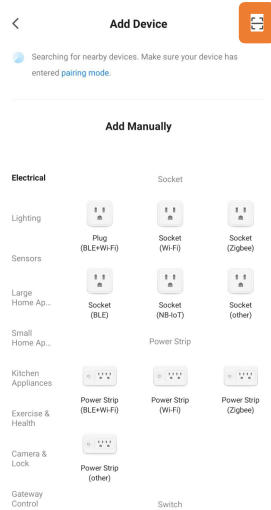
1. Download to Tuya Smart application from the Appstore or Google Play Store.
2. Register an account with the correct country and area.
3. Login to the app after registration.
4. Continue to the next page for further instructions.

Connecting to a Smartphone Device

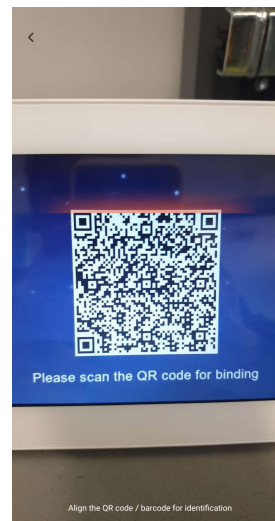
1 Press Add Device:



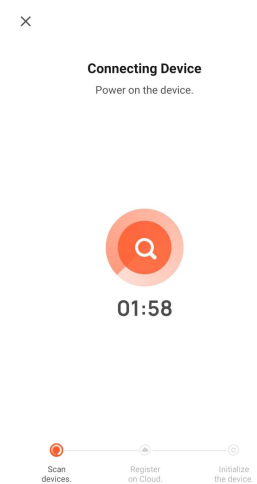
2 Press the QR code button in the top right corner:



3 Scan the QR code on the indoor monitor:

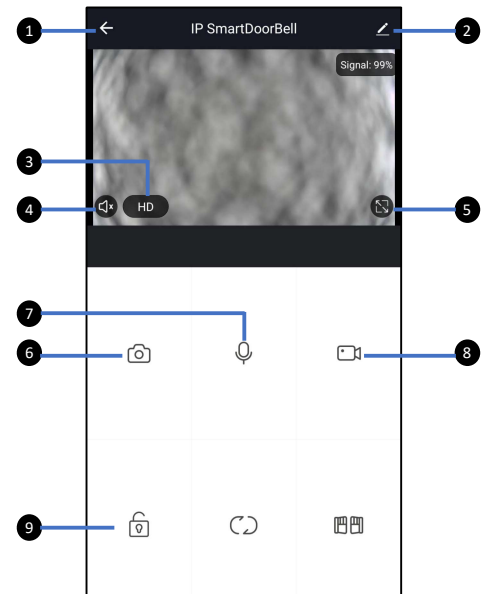


4 Wait up to 2 minute for the device to connect:



Tuya Smart APP

- (1). **Hang off (Back):** During a call or monitoring process, click this key to exit the current interface.
- (2). **Settings:** Button to access the settings of the device.
- (3). **Resolution:** Toggle between HD and SD.
- (4). **Loudspeaker:** This button will toggle between muting and unmuting the audio from the security device.
- (5). **Fullscreen:** Display the image in full screen.
- (6). **Screenshot:** Capture a screenshot of the video output and store it in the album.
- (7). **Microphone:** This button will play the audio captured from the mobile device through the speakers of the security device.
- (8). **Record:** Video recording from intercom
- (9). **Unlock:** Unlock the security device.



Home Page

Overview of the main home page with screenshots

Records

Monitor

Mobile Access

User Settings

System Settings

Ring

Monitor Door 1

Unlock

Records

Photo Record

Storage cells, motion detections, snapshot pictures will all be accessible in the photo record page. The text for the photo that is currently selected will be blue and a blue tick will be present on the left hand side. The date and time and time from when the photo was captured, the name of the device that captured the photo will be displayed on the page. There will also be a yes/no on the right hand side which indicates if the user has already viewed the photo or not.

An individual photo can be deleted if you press the **Delete** button while that photo is selected. All of the recorded photos can also be deleted in one go with the use of the **Delete All** button

Call Record

The device will save every call it receives including missed, dialed or received calls. It will keep record of the key details for each call including the location, date and time as well as if the call resulted in access being granted or denied. Note that calls cannot be viewed and so the view button will lead to no action.

MSG Record

This feature is unavailable on this device.

Monitor

The monitor will allow for live video and audio surveillance from any connected video intercom devices. To access the live video feed, click on the relevant device. On this page, users are able to adjust the volume of the monitor (0 - 15), unlock the device and take a photo. The photo will appear in the records page which is accessible from the home page. There is also a 60 second timer when streaming live video from a connected device. After this time has elapsed, the device will return to the home page.

Mobile Access

The mobile access page is useful when connecting mobile devices to the monitor through the Tuya Smart App. It also contains relevant information about the device.

WIFI Connection:

This page is useful for connecting to local WIFI networks which is a critical step when connecting to mobile devices. The Next and Prev buttons can be used to toggle through the various networks available. The Scan button will refresh the page and search again for new networks. The Connect button will bring up a password input which if successful will connect the monitor device to the network. Once a network has been connected, the connect button will be replaced with a disconnect button which can be used to disconnect the device from the WIFI network.

QR code:

The QR code page is used when connecting the device to the Tuya Smart App as seen on page 4.

System Info

Click "System Info" to see the following details: IP address, Extension Code, Mask, Gateway, Soft, MAC, PID, ID and SC capacity.

Format: This will wipe the SD card

Read: This will automatically create folders for wallpaper, screen saver and ring files.

Ringtone

Custom audio files can be selected by uploading them as mp3 files onto an SD card in the ring folder.

The ringtone settings can be used to separately set the audio that is played when the monitor calls another device or is called by another device. The Listen button can be used to play the ringtone options while the pause button will pause this audio output.

Time & Date

A 24 hour time system is used by default and cannot be changed. However, the date and time of the device can be set to any values.

The inputs are Year / Month / Day / Hour / Minute.

The date format can also be altered between Y / M / D, D / M / Y, M / D / Y and this will immediately be reflected in the settings interface and will result in that order being displayed on the home page if and when the save button is pressed.

Volume

The ring and talk volumes can be adjusted to the suitable volume. The default value is 6 and the volume can be set to any value from (0 - 15). The key volume can also be turned on or off, this determines if audio is played when a button is pressed on the monitor device.

Language

The language of the device can be changed to Russian, English, Chinese, Spanish, Turkish, Portuguese, Dutch, French, Italian or Bulgarian. To set a language, press next or previous until the specific language appears in one of the two boxes, click it and then press ok to set the language of the device.

Brightness

The brightness of the monitor screen can be adjusted between (0 - 100). Once the OK button has been pressed, the change will be implemented to the device.

Wallpaper

The wallpaper of the device can be adjusted to any jpg file which is on the SD card in the wallpaper folder. To select a wallpaper, select the wallpaper from the list and then press Set as Wallpaper.

The JPG file must meet the following requirements:

- Format = JPG
- Picture resolution <= 1920 x 1080
- File size <= 3 MB

If a custom wallpaper has been set and then the SD card containing that file is removed, the wallpaper will return to default. However, if the SD card is put back into the device, the custom wallpaper will be displayed again.

Screensaver

The screensaver settings can be adjusted between Photo Frame, Clock, Time and Off.

If there is no interaction with the monitor device for the duration specified in the Screensaver Delay setting (see below) then the screensaver will activate.

The Photo Frame feature is unavailable on this device.

Clock will result in an analog clock being displayed on the monitor device for 60 seconds.

Time will result in a digital date and time display on the monitor for 60 seconds.

Off will result in the monitor screen turning off.

User Settings

Delay

There are 5 different delay settings that can be adjusted on this page:

Ring time (5, 10, 15, 20, 30, 60, 90)

- This is the amount of time the monitor device for will ring for when the monitor receives a call from a connected video intercom device.

Screensaver (30, 60, 90)

- This is the duration of time before the screensaver is activated on the monitor device.

Time Zone

All of the time zone options will be accessible by clicking previous or next. To set the time zone click on the relevant time zone and then pressing Setting and the devices settings will be updated. The currently selected time zone will be displayed above the setting button.

Video Brightness

The video brightness, contrast, saturation and hue can be adjusted from (0 - 100). Any changes will be implemented once the save button is pressed.

System Settings

Default Password = 666666

Color Adjust:

The screen contrast, saturation and Hue can be adjusted in the range (1 - 100). As the values are adjusted, the corresponding changes will immediately be made visible on the screen. These changes will then be made permanent if the save button is pressed or be reverted back to the original settings if the back button is pressed.

System Password:

The default system password is 666666.

The system password is used to access the system settings and can be changed with this setting. To change the password, input the old password as well as the new password twice and then press OK. When the device undergoes a system reset, the system password will be restored to default.

System Reset:

The system reset will restore the device back to the original factory default settings. This will wipe all settings that have been altered on the device. This includes established Wifi connections and all user and system settings. However, the connection to a smartphone device through the Tuya Smart app will remain after the reset of the monitor device.

Turn on/off the ringtone by clicking on the ring button. This will determine if sound is played from the monitoring device when it receives a call.

Ring

Turn on/off the ringtone by clicking on the ring button. This will determine if sound is played from the monitoring device when it receives a call.

Monitor Door 1

By clicking this button, the video feed and monitoring user interface will appear on the device. For more information, see page 6.

Unlock

The unlock button will unlock the connected video intercom device and trigger any gates or locks that are connected to the video intercom. It will remain unlocked for a period of time that can be determined by changing the settings, see the delay section for more information about this.


Video Intercom Programming

Modes

Mode	Purpose	Indicator
Standby	Unlocking the device	LED light colour: White
Administrator	To change password, general settings and reset the device	LED light colour: White with red flashing every second
Unlocked	Unlock attached lock or trigger the opening of an attached automatic gate.	LED light colour: Green Sound signal: Beep x 2 "The door is unlocked, please come in."

Enter Administrator Operation Mode

To enter the administrator operation mode

 Default Admin Code is 999999

If the input is correct, Beep x 2 will sound and the LED will flash red every second.

To return to standby mode: wait 30 s until Beep x3 sounds or

Enter Unlocked Mode

Public Unlock Code:

The device allows for up to 200 unique public unlock codes to be added, each of these can be replaced or deleted. The public unlock code function can also be enabled or disabled in administrator mode.

To use the public unlock code

If the 4-6 Digit Code is valid and the device has public unlock codes enabled, the device will enter unlocked mode.

Master Cards:

Either the **Add Card Master Card** or the **Delete Card Master Card** if swiped will always unlock the device.

User Cards and Passcodes:

Using the Master Cards, user cards can be added to the device and a unique 4 Digit Code can be assigned to the card. To successfully unlock the device, the user must meet the requirements of the current setup mode.

To change the setup mode, see page 19 of the manual and to see further details of the user operations see page 21.

Default Settings

The initial administrator passcode is 999999

The initial 001 public unlock passcode is 123456

The default door opening method is card opening

The default unlock time is 2 seconds.

The safe mode is off by default

Reset

To restore the device to factory settings

 Default Admin Code is 999999

If the input has been successful, the device will then immediately reboot itself (this will take 30s). During the restart, the device will be restored to the original factory settings. However, this will not delete stored user cards, master cards or stored passwords with the exception of the admin password and the 001 public unlock code. The admin password will be restored to 999999 and the 001 public unlock code will restore back to ⁹ 123456. This will also not alter the wired/wireless mode of the device.

Modify Administrator Code

To change the administrator code

i Default Admin Code is 999999

* Admin Code # 0 77 # New 6 Digit Code # New 6 Digit Code #

If successful, the device will sound Beep x 2.

Public Unlock Code

The public unlock code can be enabled and disabled by the administrator. This setting directly effects all stored public unlock codes.

i Default Admin Code is 999999

To disable the public unlock code * Admin Code # 6 00 #

To enable the public unlock code * Admin Code # 6 01 #

Once the status of the public unlock code has be updates, the device will Beep x2.

Modify Public Unlock Code

There can be up to 200 public unlock codes, each with a corresponding 3 digit position, the first code will have the 3 digit position 001. Each of these codes can be added or deleted using the programming functionality below. This is useful when managing the access permissions for larger groups.

To add or replace a public unlock code

* Admin Code # 933 # 3 Digit Position # New 4-6 Digit Code # New 4-6 Digit Code #

i Default Admin Code is 999999

If there is no existing passcode associated with the 3 digit position, the new code will be added. If there is an existing passcode, it will replace the corresponding code for that 3 digit position. The 3 digit position can be any value from 001~200.

Delete Public Unlock Code

To delete a public unlock code * Admin Code # 944 # 3 Digit Position #

If successful, the device will sound Beep x 2.

i Default Admin Code is 999999

i Default 001 Public Access Code is 123456

Setup Unlock Mode

The various unlock modes apply to user cards, each card will have an associated 4 digit code. See the user operations section for more detail.

To enter **card only** unlock mode * Admin Code # 3 00 #

i Default Admin Code is 999999

In this mode, the user can only use a swipe card to unlock the device.

To enter **card or passcode** unlock mode * Admin Code # 3 01 #


In this mode, the user either a swipe card or a 4 digit user code to unlock the device.

To enter **card and passcode** unlock mode * Admin Code # 3 02 #

In this mode, the user has to first use a swipe card and then the corresponding 4 digit user passcode to unlock the device.

Modify the Unlock Time of Relay

The unlock time can be set to any value from 0~150 s.

 Default Admin Code is 999999


To change the value of the unlock time

Where xxx = 002 for a 2 s unlock time.

If successful, the device will sound Beep x 2.

Safety Mode Setup

To turn off **safety mode**

 Default Admin Code is 999999

If successful, the device will sound Beep x 2.

To turn on **locked mode**

Locked mode means that if a user continues to use the wrong card or code 10 times continuously within a 5 minute period, the device will be locked out for 2 minutes and automatically call a connected monitor if there is one. When the device becomes locked, it will sound “wrong room number” and the LED light will turn red for a short period of time before becoming white again. During this 2 minute locked period, cards and passcodes won’t work. There will be no indicator when the device exits the locked state.

To turn on **Alarm mode**


This will result in Beep x2.

Alarm mode means that if a user continues to use the wrong card 10 times continuously within a 5 minute period, the device will repeatedly Beep, the LED light will turn red and then the device will restart.

Note that if the device is in card only mode, the public access codes will still be functional but the locked and alarm modes will not trigger if incorrect codes are inputted. Therefore, there will be nothing

Add Master Card

The master cards can be used to add or delete user cards.


 Default Admin Code is 999999

To add new master cards

The first card to be swiped will become the **Add Card Master Card** and the second card swiped will become the **Delete Card Master Card**. These cards will replace any existing master cards as only two master cards are allowed. Master Cards can never be deleted, they can only be replaced by adding new master cards. After the two cards have been swiped the device will automatically exit administration mode.

Switch Language


To change the language of the device

 Default Admin Code is 999999

Language Sequence Numbers: 00 = Russian, 01 = English, 02 = Chinese, 03 = Spanish, 04 = Turkish, 05 = Portuguese, 06 = German, 07 = French, 08 = Italian, 09 = Bulgarian, 10 = Farsi

If successful, the device will sound Beep x 2 indicating the successful language allocation.

Switch Wired/Wireless Mode

To change the device to wired mode  Default Admin Code is 999999

To change the device to wireless mode

The device will Beep x 2 indicating the successful allocation of wired/wireless mode.

Add User Card

In standby mode, swipe **Add Card Master Card** 3 times within 15 seconds. The LED light indicator will then flash red and

The device will Beep x4 to confirm that the device has entered the add user card mode.

Swipe the card which is to become a user card in the RFID area. The device will then Beep x2 to confirm that it has successfully

been added. This process can be repeated with all the cards that need to be added. Once all of the cards have been added,

swipe the **Add Card Master Card** to end the add user card operation. (If there are no more operations, the device will

automatically exit the mode after 30 seconds). The device will return to the standby state.

Delete User Card

In standby mode, swipe **Delete Card Master Card** 3 times within 15 seconds. The LED light indicator will then flash red and the

device will Beep x4 to confirm that the device has entered the delete user card mode. Swipe the user card which is to be

deleted and then the device will sound Beep x2 to confirm the deletion. If a card which is not a user card is swiped, the device

will sound Beep x4 indicating that the card was not deleted because it was not currently a registered user card. This process

can be repeated With all the cards that need to be deleted. Once the cards that need to be have been deleted, swipe the

Delete Card Master Card to end the delete user card operation. (If there are no more operations, the device will automatically

exit the mode after 30 seconds). The device will return to the standby state.

Delete All User Cards

In standby mode, swipe **Delete Card Master Card** 3 times within 15 seconds. The LED light indicator will then flash red and the

device will Beep x4 to confirm that the device has entered the delete user card mode. Swipe the **Add Card Master Card** and

the device will sound Beep x7 Indicating that all registered user cards have been deleted and will not longer be able to unlock

the device. The device will then instantly return back to Standby mode.

User Operations

Every user card has an associated 4 digit passcode that a user may be required to or have the option of inputting to unlock the device. The default user passcode for all user cards is 0000 but this code can only be used to initially modify the user passcode. The default user passcode cannot be used to unlock the device.

To modify the user passcode

* [Swipe User Card] [Old Passcode] [#] [New Passcode] [#] [New Passcode] [#]

For all user cards, the Old Passcode will initially be the default user passcode which is 0000
The New Passcode must be a 4 digit code NNNN

There are 3 different settings that determine what a user with a user card must do to be able to unlock the device. These setting will have no impact on the public unlock code or the master cards.

Card access to unlock

In standby mode, swipe a valid register user card at the RFID area and the device will be unlocked. User passcodes will not be able to unlock the device.

Card or Passcode to unlock

In standby mode, either swipe a valid registered user card at the RFID area or input a valid user passcode + # and the device will be unlocked.

Cards and Password unlock

In standby mode, swipe a valid registered user card at the RFID area and then input the corresponding 4 digit passcode + #. If the passcode matches the card, the device will be unlocked. (Note, if the user passcode has not been modified, that user will not be able to access the device.