

## Merit LILIN Application Note

How does DB052E control devices via the IR control codes

**Document Number:** A00300

**Date:** 2020/03/04

**Dept:** Technical Support, Taipei

**Subject:** How does DB052E control devices via the IR control codes

**Requirement:**

1. DB052E (FW v1.0.200.1033 or above) with an IR receiver and a sender.
2. Device with IR remote controller.
3. PC.

**Description:** We use a LILIN NVR5416 for an example. Show you how a DB052E controls a IR device via the device's IR control codes.

Record an IR code at DB052E sent by a NVR

**Step #1. Insert an IR receiver into IR IN port and an IR sender into IR OUT port.**



**DB052E**



**Notice:** Place IR sendeder close to the controlled IR receiving device.

**Step #2. Log in DB052E by the browser (the default IP address is 192.168.0.200).**

**Step #3. Create a username and a password for DB052E.**

**Step #4. Press the button of the IR remote control.**

1. Take one NVR IR remote controller as an example.
2. Press  button pointing to the IR receiver of the DB052E. The IR code will be shown on the browser of DB052E.



**Setting | Log Out**

Digital Input	1	2	3	4	5	6	7	8
Value								
Value	0	0	0	0	0	0	0	0
Value	9	10	11	12	13	14	15	16
Value	0	0	0	0	0	0	0	0

Virtual Input	1	2	3	4	5	6	7	8
Value								
Value	0	0	0	0	0	0	0	0
Value	9	10	11	12	13	14	15	16
Value	0	0	0	0	0	0	0	0

Global Counter	1	2	3	4	5	6	7	8
Value								
Value	0	0	0	0	0	0	0	0
Value	9	10	11	12	13	14	15	16
Value	0	0	0	0	0	0	0	0

IR Remote	1
Value	
Value	33429480

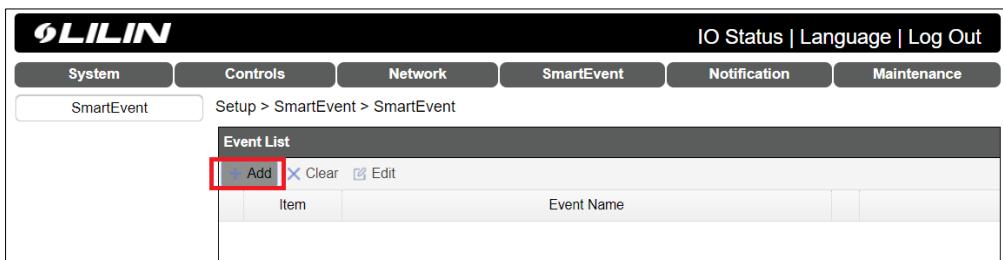
  

Metadata	1	2	3	4	5	6	7	8
Value								

3. Write down this IR code at IR Remote field.
4. Repeat step #2~#3 until getting all function codes that you need.

Send an IR code at DB052E to a NVR

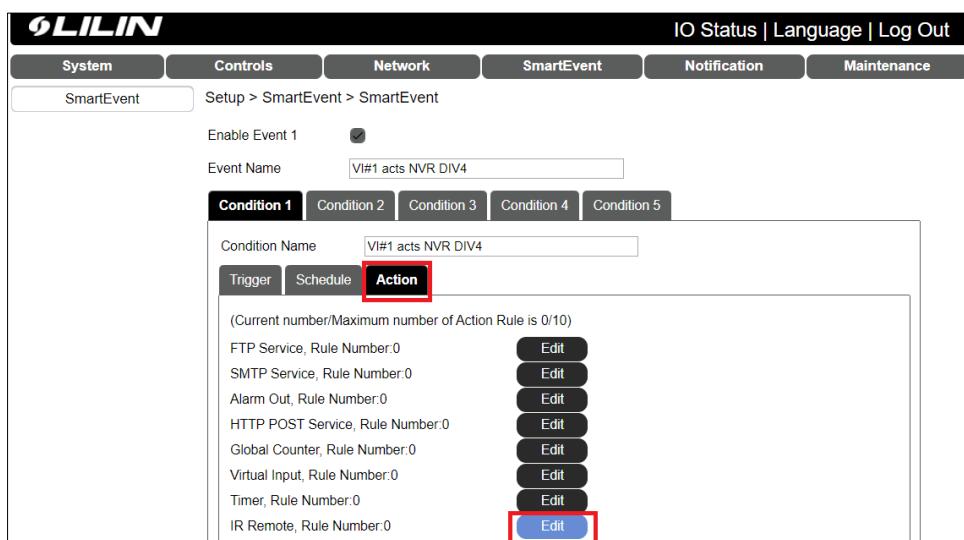
1. Go to Setup > SmartEvent and Add an event.



2. Set if the virtual input #1 gets triggered. Make the NVR switch to division 4.



Press  button pointing to the IR receiver. You will see its IR code on the browser of DB0522.



4. **IO Status** Language | Log Out

System Controls Network SmartEvent Notification Maintenance

SmartEvent

Setup > SmartEvent > SmartEvent

Enable Event 1

Event Name

**Condition 1** Condition 2 Condition 3 Condition 4 Condition 5

Condition Name

Trigger Schedule **Action**

IR Remote

Operator

1. Incremental Value

2.

Action 1

Enable Action IR Remote  
Operator is Set Value  
Incremental Value is 33429480

3.

### Step #5. Trigger the virtual inputs to send the IR function codes.

1. Click the virtual input #1 button twice, then the NVR will automatically switch to division 4.

Setting | Log Out

Digital Input	1	2	3	4	5	6	7	8
Value								
Value	0	0	0	0	0	0	0	0
Value	9	10	11	12	13	14	15	16
Value								
Virtual Input	1	2	3	4	5	6	7	8
Value								
Value	1	0	0	0	0	0	0	0
Value	9	10	11	12	13	14	15	16
Value								
Global Counter	1	2	3	4	5	6	7	8
Value	007	007	007	007	007	007	007	007
Value	0	0	0	0	0	0	0	0

Contact [lilin.zendesk.com](https://lilin.zendesk.com) for technical support.

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