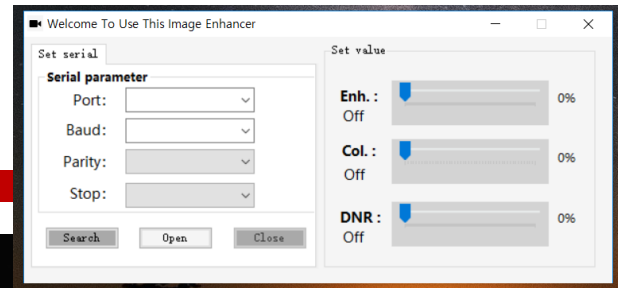


Real Time Full HD Video Enhancement
under all environmental conditions
(HD-SDI, HDMI interface)

-Piclear -

DK solutions | <http://gogocctv.com>

What is HD video enhancement?



On screen Display for level of Enhancement

Cam1

2019/04

| S | M | T | W | T | F | S |
|----|----|----|----|----|----|----|
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |

From 2018/08/06 00:39:59
To 2019/05/29 15:56:09

ARCHIVE

0:00:05

2019/04/16 22:09:18

level of Enhancement

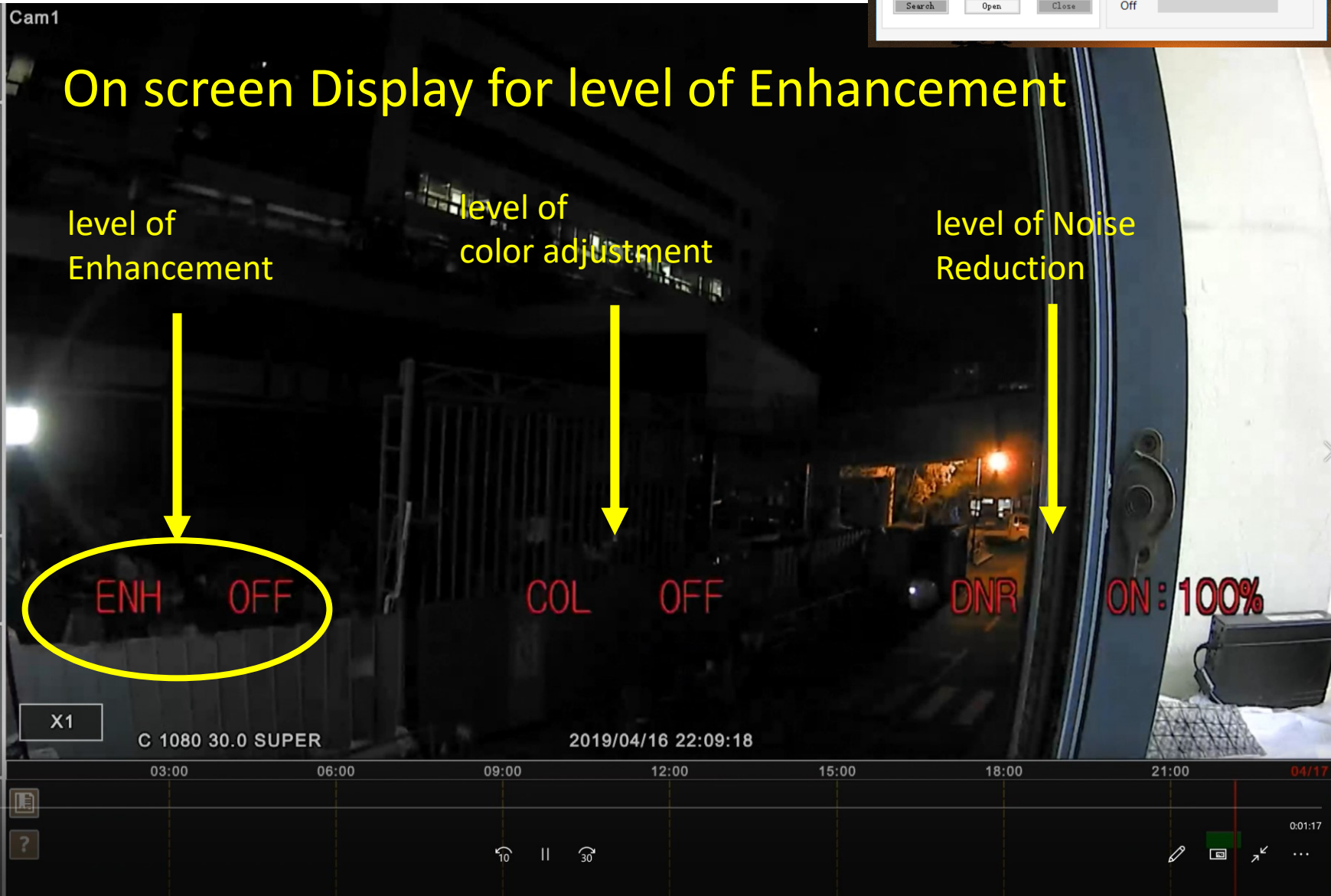
ENH OFF

level of color adjustment

COL OFF

level of Noise Reduction

DNR ON: 100%



What is HD video enhancement?

Navigation icons: Home, Search, Refresh, etc.

Calendar: 2019/04

| S | M | T | W | T | F | S |
|----|----|----|----|----|----|----|
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |

From: 2018/08/06 00:39:59
To: 2019/05/29 15:56:09

ARCHIVE

00:00:15

2019/04/16 22:09:28

On screen Display for level of Enhancement

level of Enhancement

level of color adjustment

level of Noise Reduction

ENH ON: 51%

COL OFF

DNR ON: 100%

X1

C 1080 30.0 SUPER

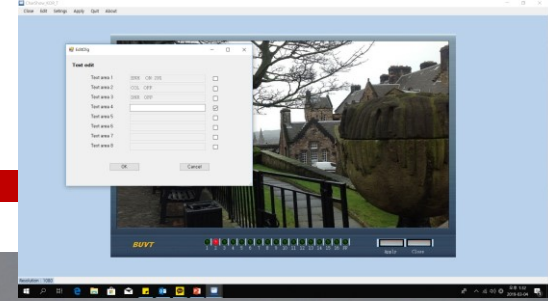
2019/04/16 22:09:28

03:00 06:00 09:00 12:00 15:00 18:00 21:00 04/17

00:01:15

00:01:07

What is HD video enhancement?



DK SOLUTIONS IMAGE ENHANCER
TEST VIDEO



Insert Text and time on the video
At any location

level of
Enhancement



level of
color adjustment



level of Noise
Reduction



0:00:02



EHC

OFF

CLR



ON:22



DNR

ON:

96%

0:00:38

What is HD video enhancement?

DK SOLUTIONS
TEST VIDEO

IMAGE ENHANCER



Real time insert by serial communication

level of Enhancement



level of color adjustment



level of Noise Reduction



0:00:20



EHC ON: 100%

CLR



ON: 33

DNR

ON: 96%

0:00:20



Type of Product



← Small Size

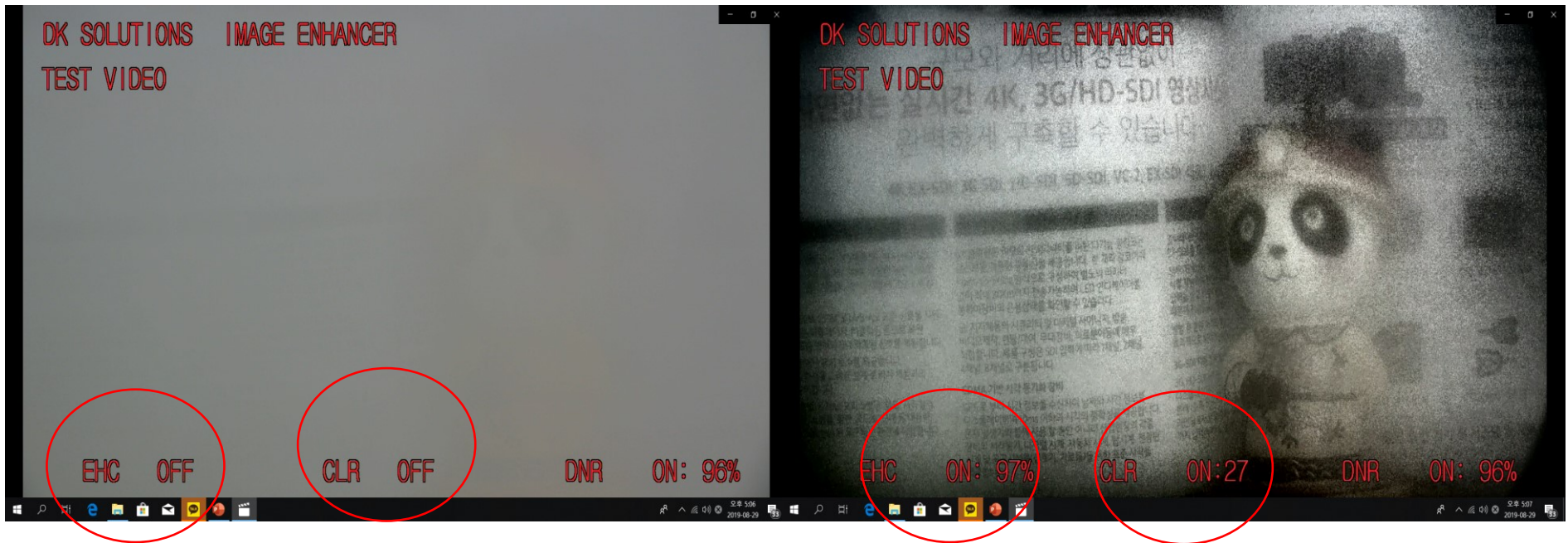


19" Rack Mount Type →



- ✓ Real time HD video enhancement under all environmental conditions
- ✓ Plug and play using SDI or HDMI input video
 - DVR(HD-SDI, AHD, TVI, CVI, Analog), NVR, PC and etc.,
- ✓ Full HD Real time video processing(~ 1080p60/1080i60)
- ✓ Easy to use
- ✓ Two format Video Out (Both HDMI and SDI)
- ✓ 19" Rack Mount type or Small Size selectable

Humidifier in fishbowl



Smoke



Particulate Matter



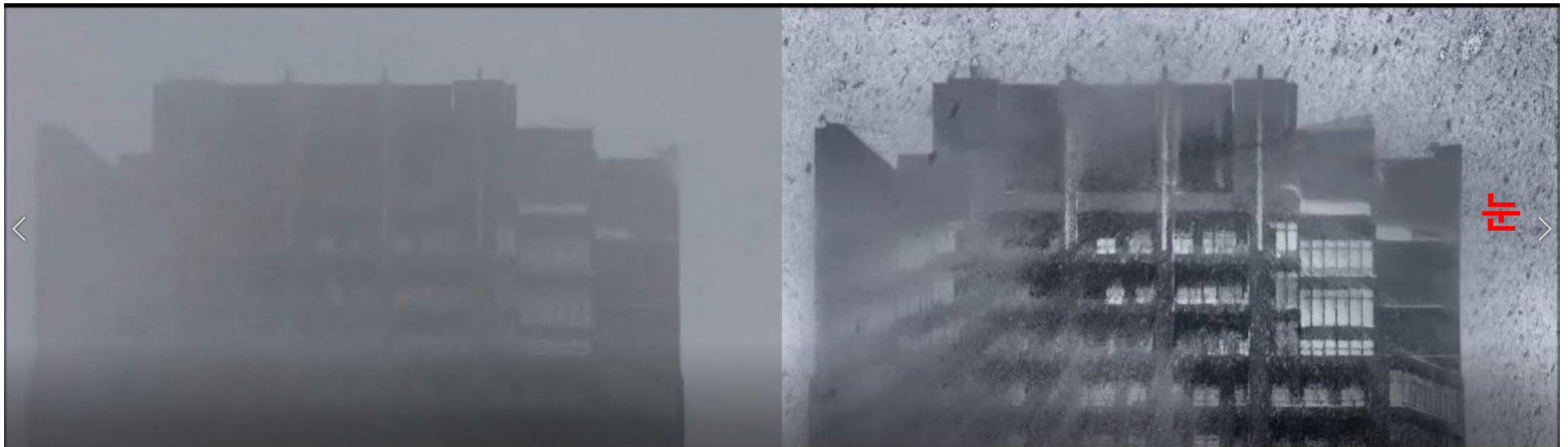
Haze



Defog



Snow



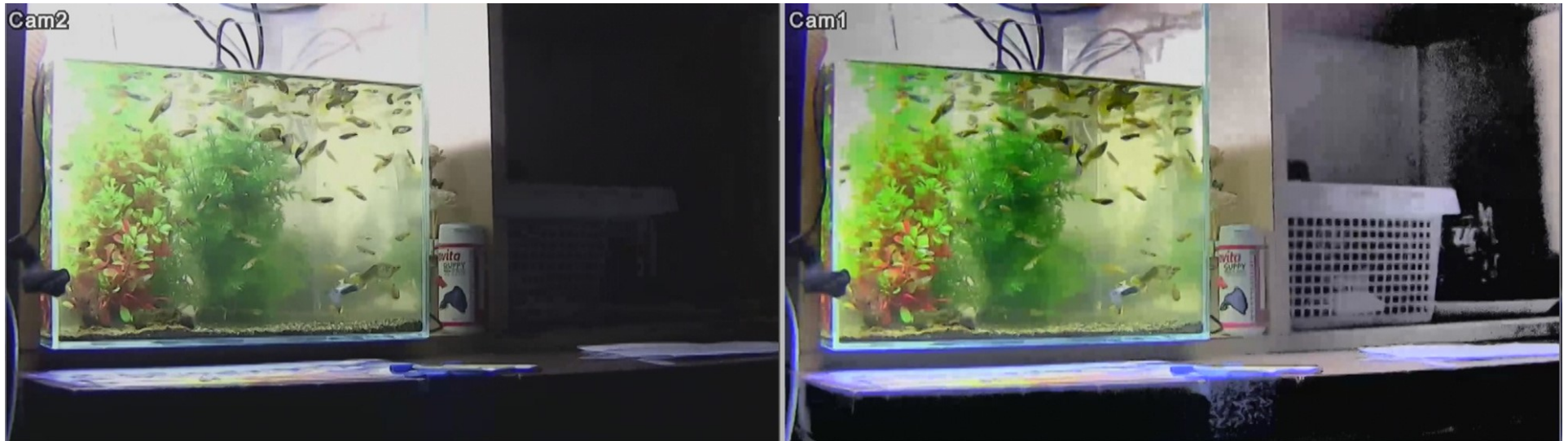
Rain



Lowlight



Back Light



Back Light



Wall surface crack



Underwater



Configuration



HD-SDI/3G-SDI



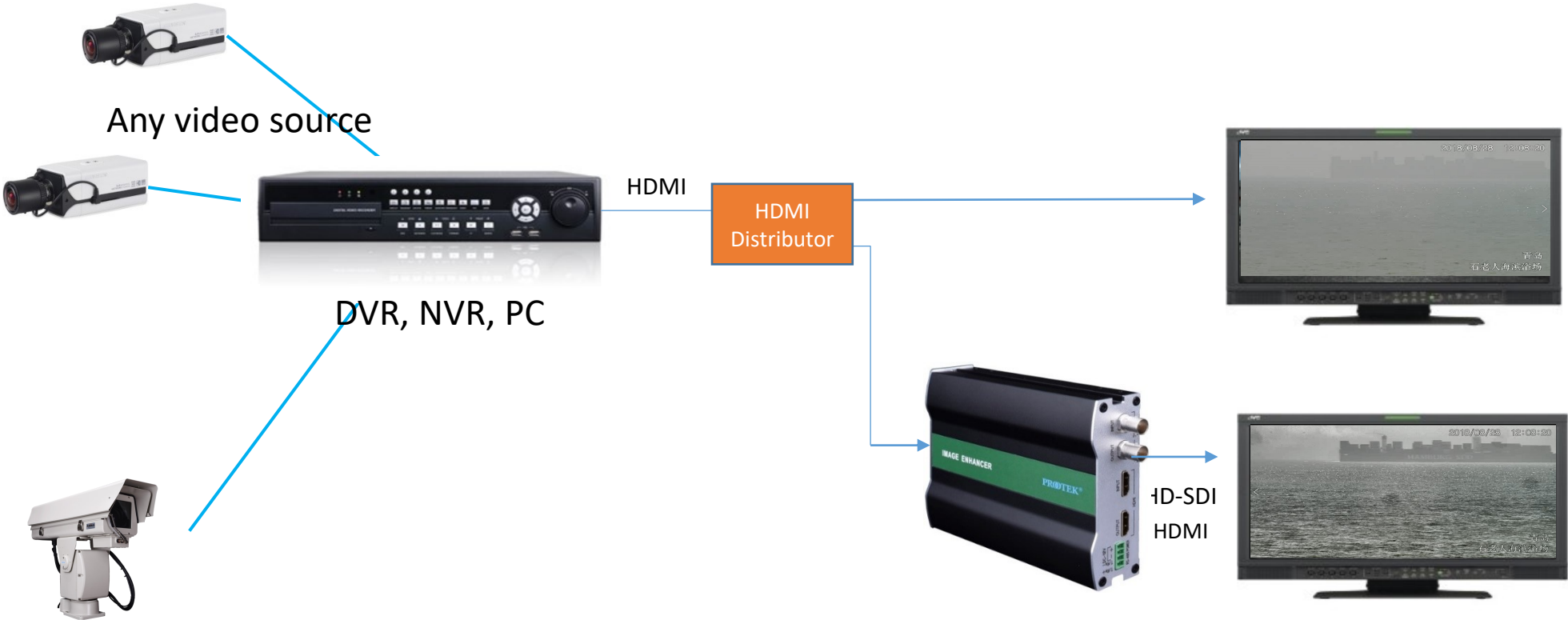
HD-SDI/3SDI

HDMI

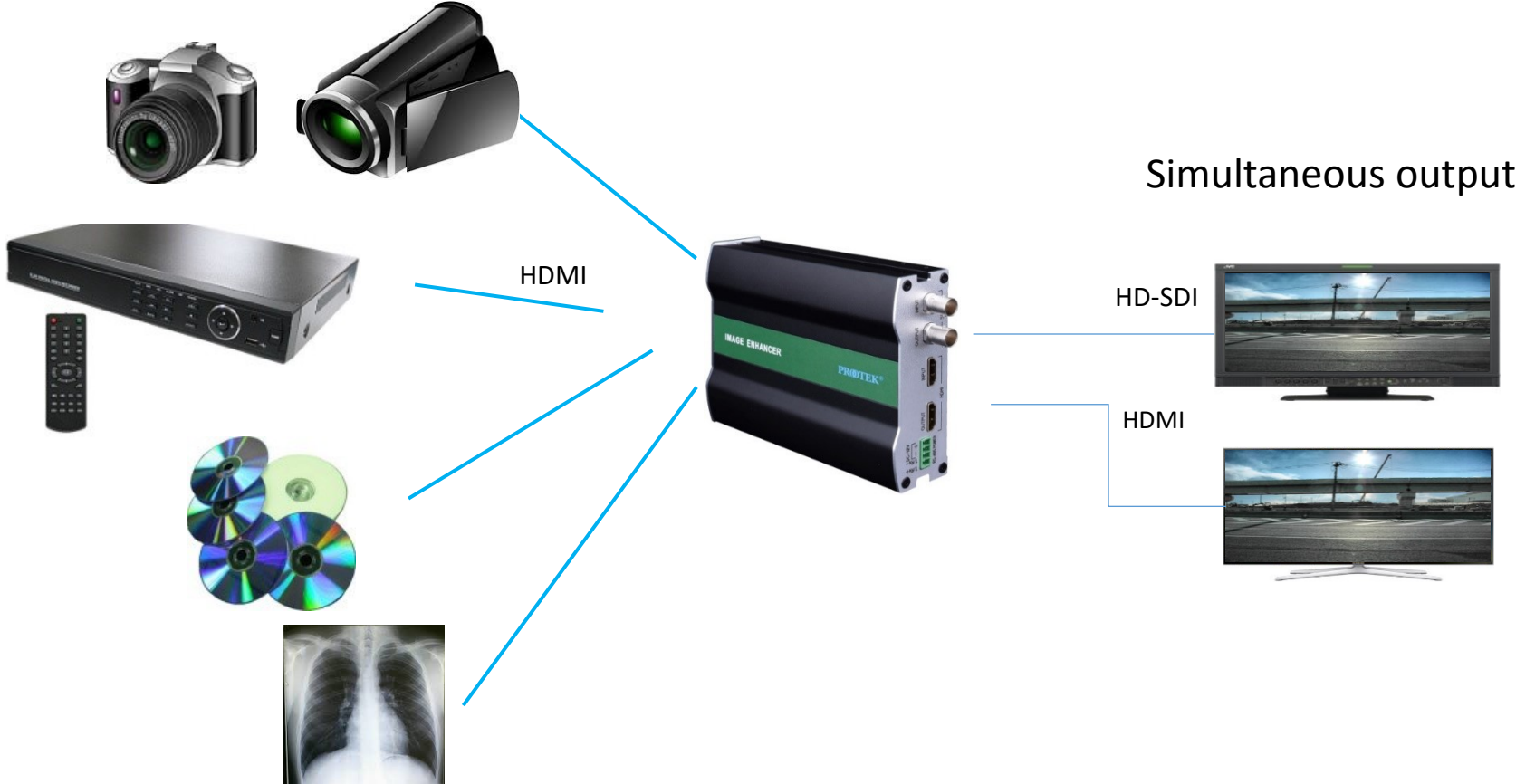
Simultaneous output



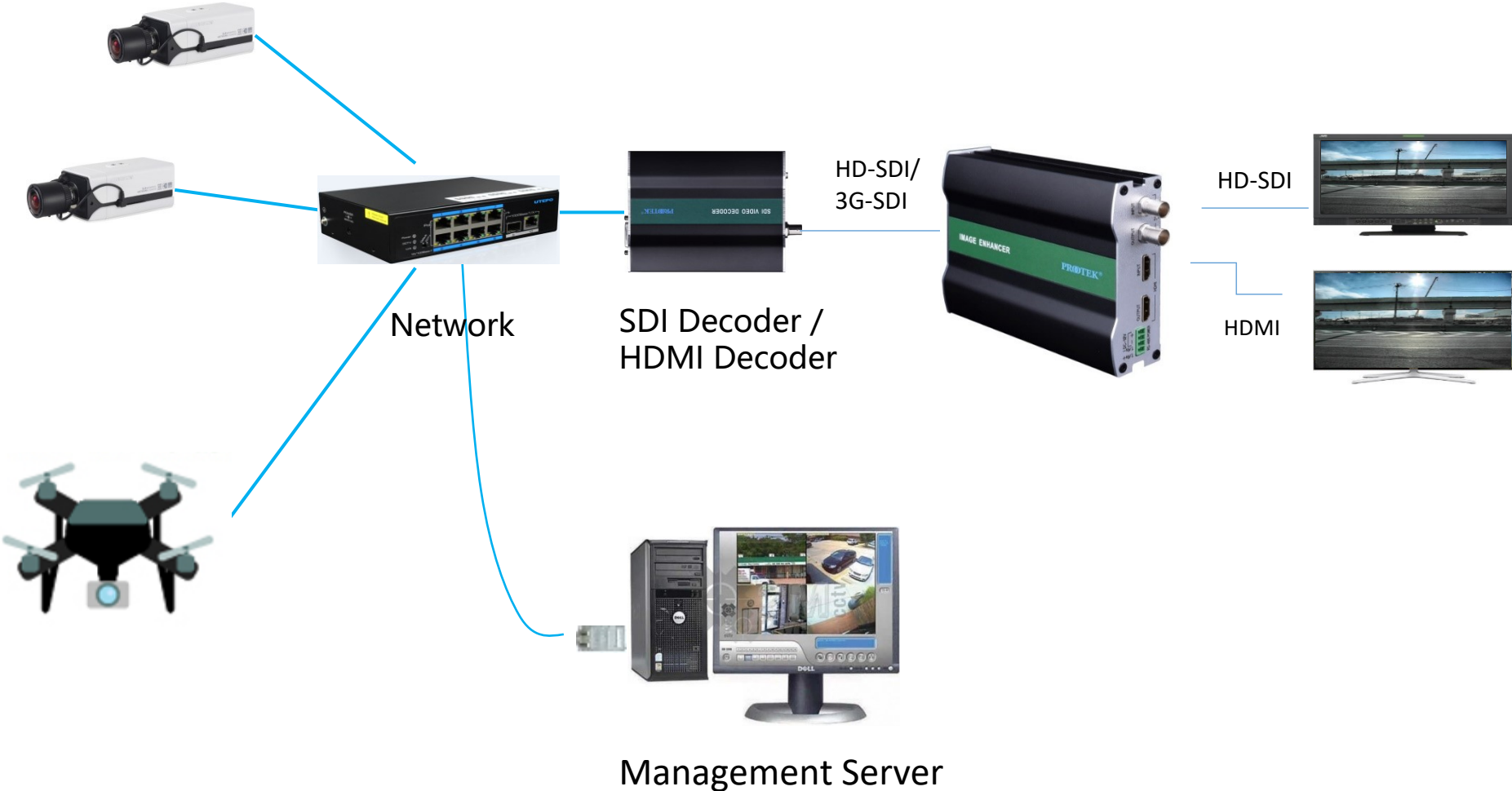
Configuration



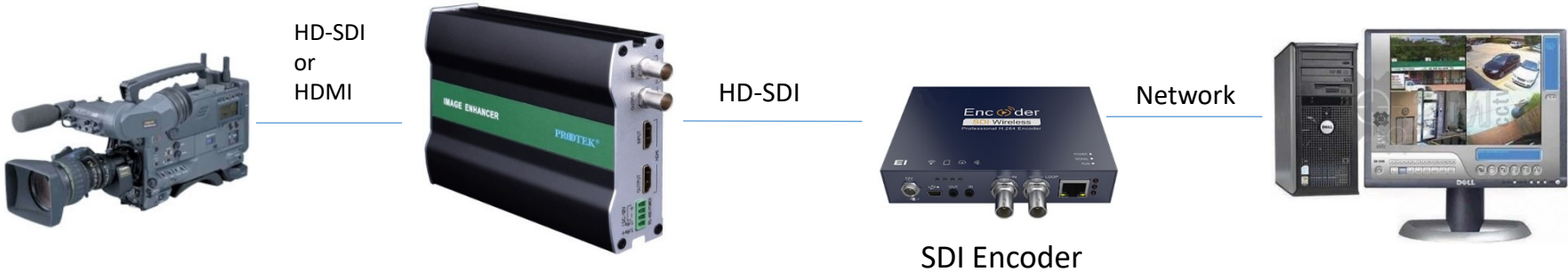
Configuration



Configuration



Configuration



Part Descriptions



LED Indicator

Enhancement
Color

DNR

Lock Button



HDMI Output

HDMI Input

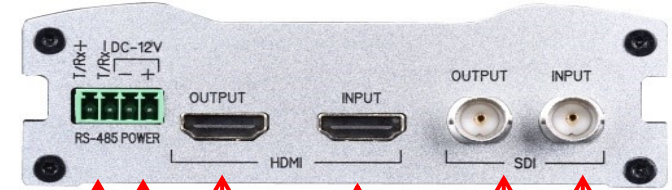
SDI Input

SDI Output

RS-485 Serial

Network (RJ45, N/A)

Power Switch (AC100~220V)



RS-485 Serial

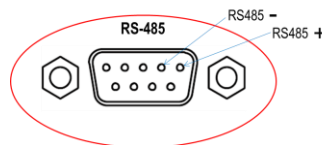
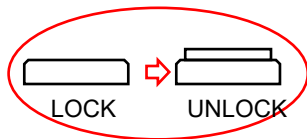
DC12V

HDMI Output

HDMI Input

SDI Output

SDI Input



The red LED will be on when unlocking and the image can be improved with the control button

Specification

- ① Model No : PIE-01HD or PIE-01HD-1U
- ② Video Processing Algorithm : DRE(Dynamic Range Enhancer)
 - Front Adjustment Button, RS-485, TCP/IP (TBD)
- ③ Function : Enhancement, Noise Reduction, Color Adjustment
- ④ Video Input : HD SDI, SD SDI (BNC, 75Ω), HDMI(Ver. 1.3)
- ⑤ Video Output (Processed) : Both HD-SDI(BNC,75Ω) and HDMI
- ⑥ Video Format :
 - 1080p/30, 1080p/29.97, 1080p/25
 - 1080i/60, 1080i/59.94, 1080i/50
 - 720p/60, 720p/59.94, 720p/50
 - 480i/59.94
 - 576i/50
- ⑦ Serial Interface : RS-485
- ⑧ Control Software :
 - OS : Windows
 - Function : Function ON/OFF (Enh, NR, COR)
 - Level Adjustment
- ⑨ Operation Temperature : 0 ~ 55 °C
- ⑩ Power Input : DC12V or AC110~220V



PIE-01HD



PIE-01HD-1U



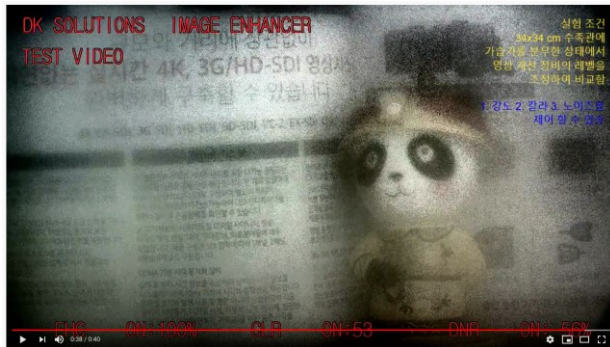
<https://youtu.be/Cx2VDoFTpbo>



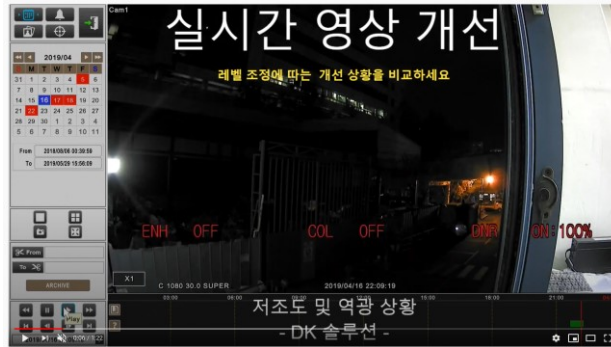
<https://youtu.be/-bMnEA0rYS8>



<https://youtu.be/sLkmgH1oEY>



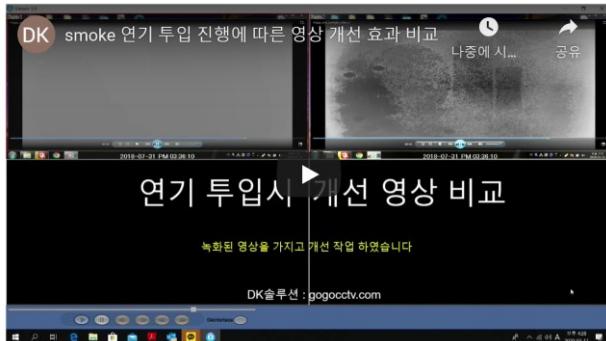
<https://youtu.be/2dwM4uiGaAE>



<https://youtu.be/JMu10rC5UZO>



https://youtu.be/zN_SBs84M



https://youtu.be/_q5OuyVSQT4

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