

Elevator V2 Demo

N9H20K5 Non-OS

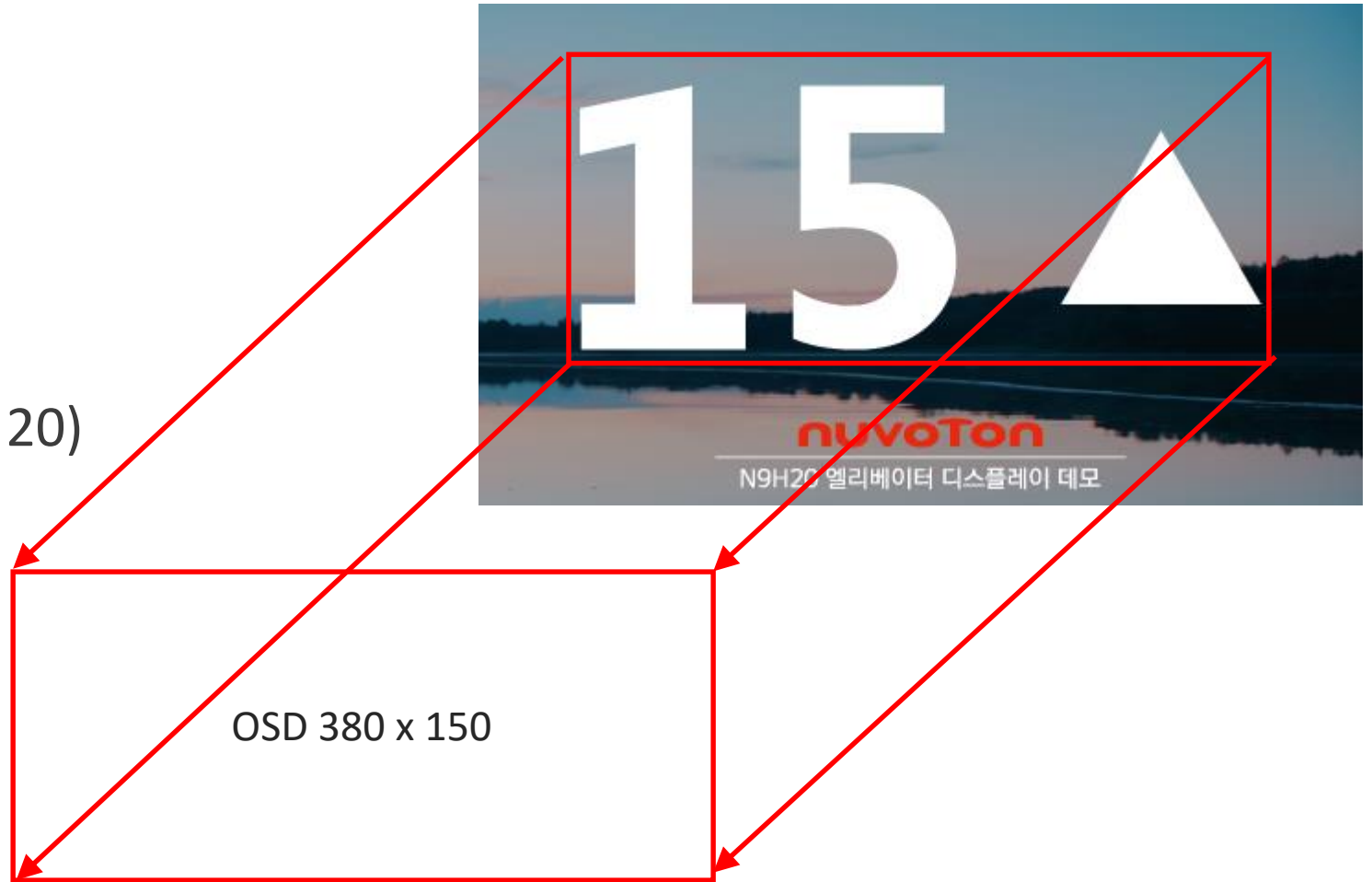
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I Introduction

- 2022 elevator 2nd generation demo
- Demo spec
 - Floor number & Arrow effect
 - GUI library: emWin v6.10f
 - N9H20K5 Non-OS
 - LCD 480x272 4.3" + OSD
 - Add support for Korean language
 - Add support RTC
 - Ping-pong buffer, Frame rate control & audio

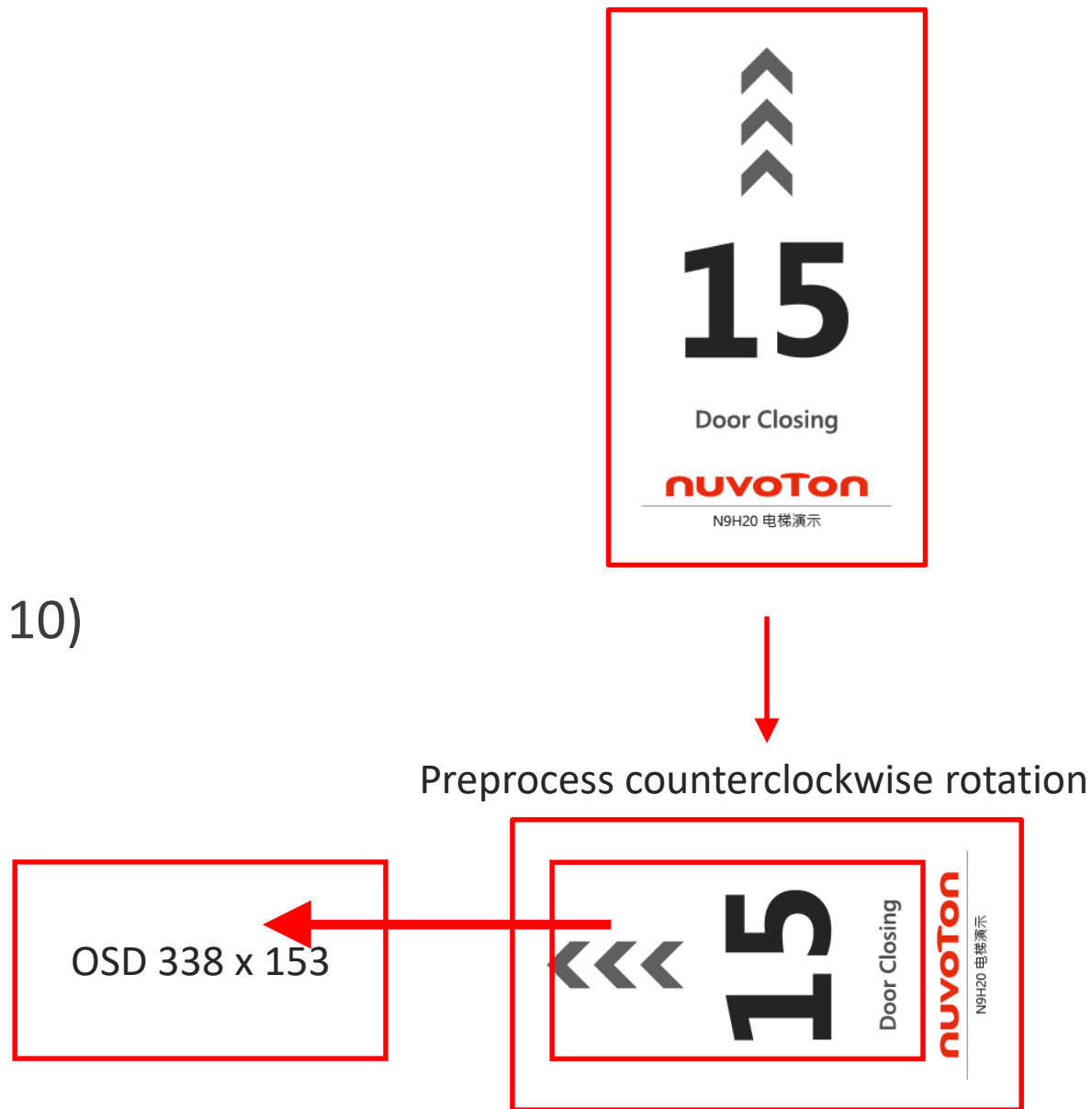
| Demo1

- Korean language
- Floor number
 - 110 x 150 (0 ~ 9)
- Arrow
 - 110 x 150 (down: 20; up: 20)
- Background
 - 480 x 272
- OSD
 - 380 x 150



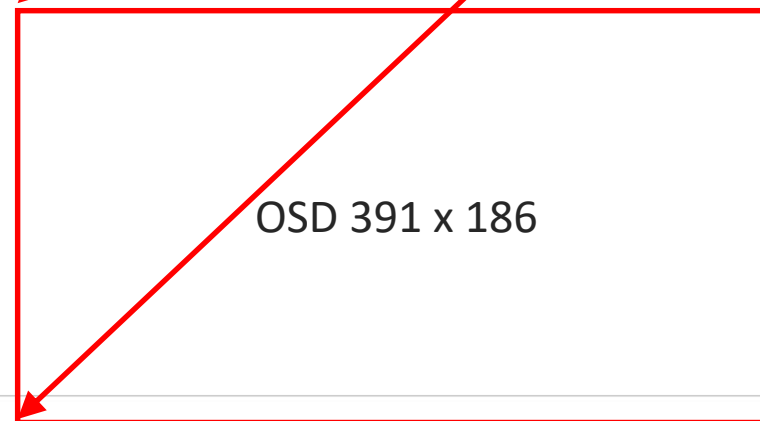
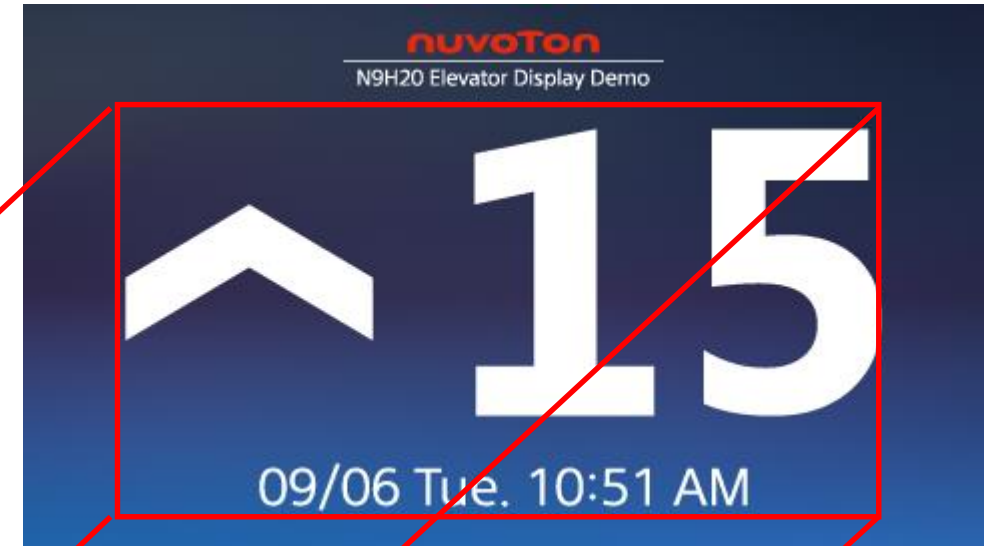
Demo2

- Chinese language
- Floor number (original)
 - 100 x 73 (73 x 100) (0 ~ 9)
- Arrow (original)
 - 127 x 44 (44 x 127) (down: 10; up: 10)
- Background (original)
 - 480 x 272 (272 x 480)
- OSD
 - 338 x 153



| Demo3

- English language
- Floor number
 - 110 x 150 (0 ~ 9)
- Arrow
 - 130 x 70 (down: 26; up: 26)
- Background
 - 480 x 272
- OSD
 - 391 x 186



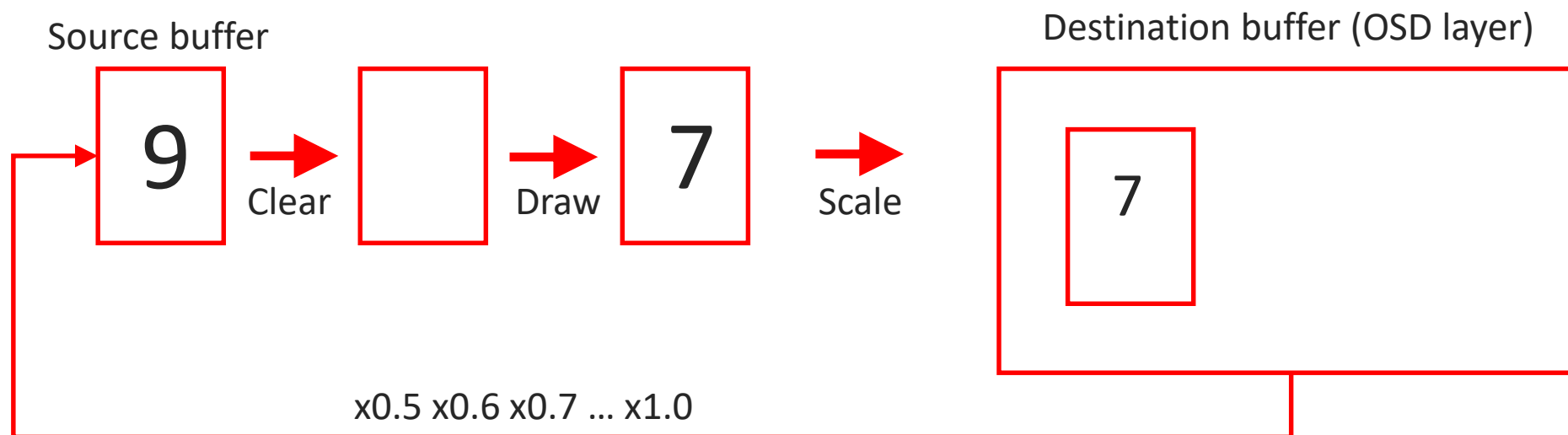
I Appendix

- Frame rate
 - FPS: 25
- Ping-pong buffer
 - Front canvas
 - Back canvas
- Two layers
 - VPOST frame buffer: YUV (JPG)
 - OSD buffer: ARGB8888 with various size
- Audio
 - Built-in wav decoder (wav files stored in NAND flash with NVTFAT)

I Appendix (CONT.)




- Floor effect

- Scaling



- Demo video

- `\\nuvoton.com\public\MS30\CS`

Name	Date modified	Type	Size
 Demo1.mp4	2022/10/17 下午 12:10	MP4 Video	7,088 KB
 Demo2.mp4	2022/10/17 下午 12:10	MP4 Video	7,773 KB
 Demo3.mp4	2022/10/17 下午 12:10	MP4 Video	8,735 KB

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谢谢

謝謝

Děkuji

Bedankt

Thank you

Kiitos

Merci

Danke

Grazie

ありがとう

감사합니다

Dziękujemy

Obrigado

Спасибо

Gracias

Teşekkür ederim

Cảm ơn

| Q&A

- How to burn?
 - Into recovery mode (short JP1) → Connect to PC via USB cable → Double click AutoWriter.exe → connect power cable & power on (S3)
- What is the Demo1, Demo2 & Demo3 application name?
 - Demo1: conprog.bin (Korean language)
 - Demo2: 2onprog.bin (Chinese language)
 - Demo3: 3onprog.bin (English language)
- Where are the language wav files?
 - Korean language: NAND1-2/WAV/1
 - Chinese language: NAND1-1/WAV
 - English language: NAND1-2/WAV