



T582 SDK Platform – Demo

C.N.Yu & Ken



Terawins, Inc.



Change Log

- i v0.70 - 2013/07/14
 - i First Version
- i v0.90 - 2013/12/04
 - i Video Door Phone of Demo
- i v1.00 - 2014/01/15
 - i Video Door Phone of Demo 2
- i v2.00 - 2014/03/14
 - i Add Files Browser Mode
 - i Add Picture/Audio of FS Option
 - i Add Picture De-interlace Function
 - i Add Motion Detection Function





Agenda

- i Demo Items
- i Buttons
- i Menu
 - | Record
 - | Play
 - | Snapshot
 - | Picture Viewer
 - | Audio Message
 - | Setting
 - i Time Setting
 - i Multi-Language
 - i Backup Pictures to SD
 - i Format SD
 - i Picture/Audio message of files system options
 - i TP Cab.





Demo Items (1/3)

- i 錄像
 - | File Format : AVI
 - | Video: MJPEG format
 - i 720x240@60fps (NTSC mode)
 - i 720x288@50fps (PAL mode)
 - | Audio: A-Law format
 - | 錄製設定大小或時間影片至**SD Card**。
 - | 錄像之檔案數目額滿會覆蓋最舊且未讀之影片錄像。
- i 播放影片
 - | 播放 **T582** 錄像影片，從最新影片開始播放，可刪除。
- i 拍照
 - | 拍照並儲存 **JPEG** 照片在 **NOR flash/SD Card**。
 - | 拍照之檔案數目額滿會覆蓋最舊且未讀之照片。
- i 看圖
 - | 觀看存在 **NOR flash/SD Card** 裡的照片，可備份和刪除。





Demo Items (2/3)

- i **SPIOSD & Sprite**
 - | 由主選單呈現
- i **OSD2**
 - | 由 **icon** 和 **font** 顯示呈現
- i 語音留言
 - | **In NOR flash.**
 - | **G.726 32-Kbit/s, Maximum 15 sec in 64-KB/block.**
- i 音樂門鈴
 - | **In NOR flash.**
 - | **G.726 32-Kbit/s, Maximum 15 sec in 64-KB/block.**
 - | **3首門鈴音樂**



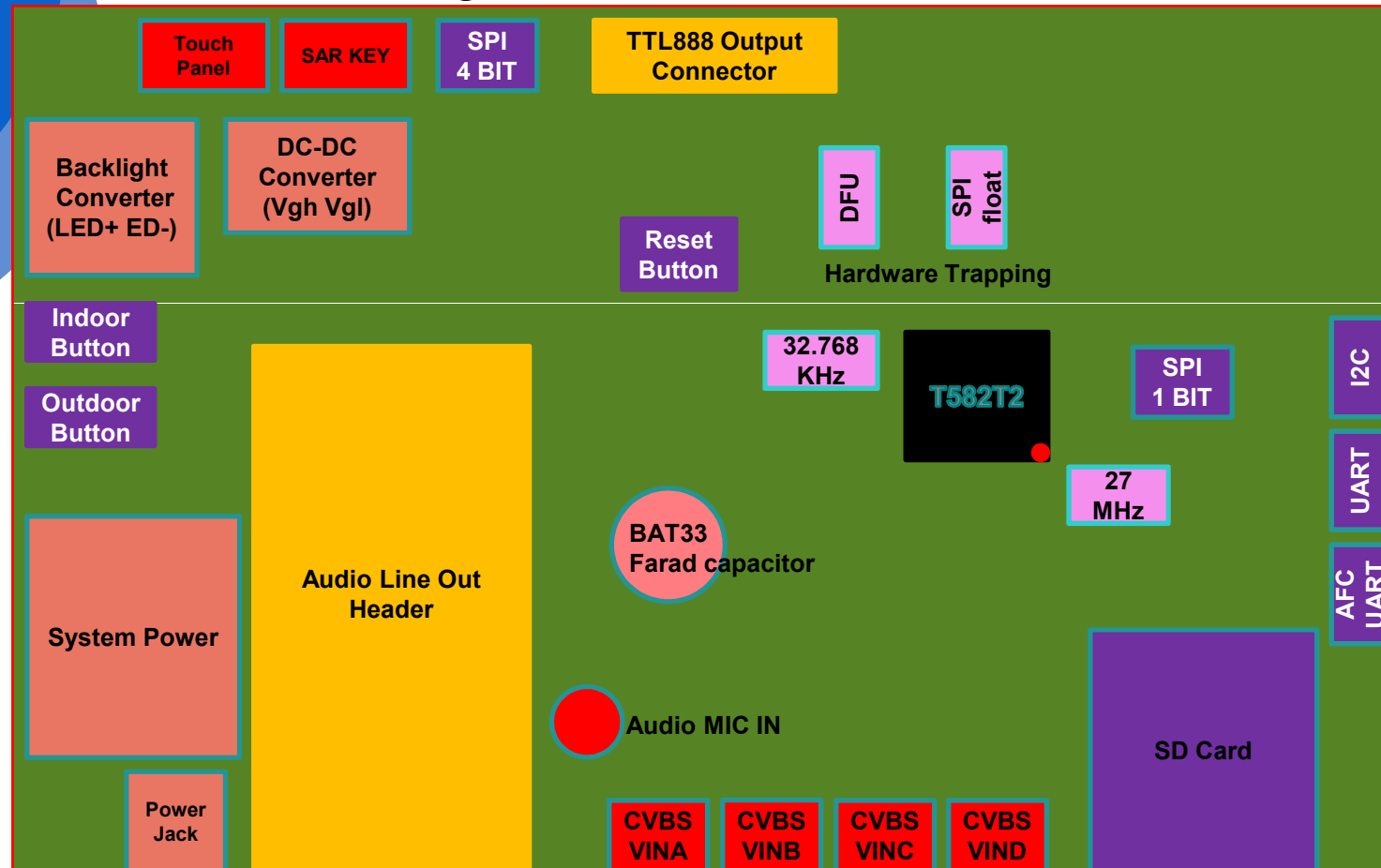
Demo Items (3/3)

- i 多媒體儲存規劃
 - l **FAT File System (SD Card)**
 - i 需**4GB** 以上
 - i 照片，**1024張**，每張**64KB**
 - i 留言，**64首**，每首**128KB**
 - i 視頻，**64個**，每個**32MB**
 - l **NOR File System (NOR Flash)**
 - i 需**4MB** 以上
 - i 照片，**20張**，每張**64KB**
 - i 留言，**10首**，每首**128KB**
- i **SD Card Upgrade**
 - l **Firmware**
 - l **Resource**
 - l **Ring1/Ring2/Ring3**



Demo board description

Block Diagram



Input:

- 1.CVBS*4
- 2.Audio MIC In
- 3.Touch Panel
- 4.SAR KEY

Output:

- 1.TTL888
- 2.Audio Line Out

Connect :

- 1.I2C
- 2.UART
- 3.AFC UART
- 4.SPI 1bit (boot code)
- 5.SPI 4bit (OSD)
- 6.SD Card

Crystal:

- 1.27MHz
- 2.32.768kHz(RTC)

Other :

- 1.Hardware Trapping
- 2.Indoor Button
- 3.Outdoor Button
- 4.Reset Button

Power in Demo Board



A

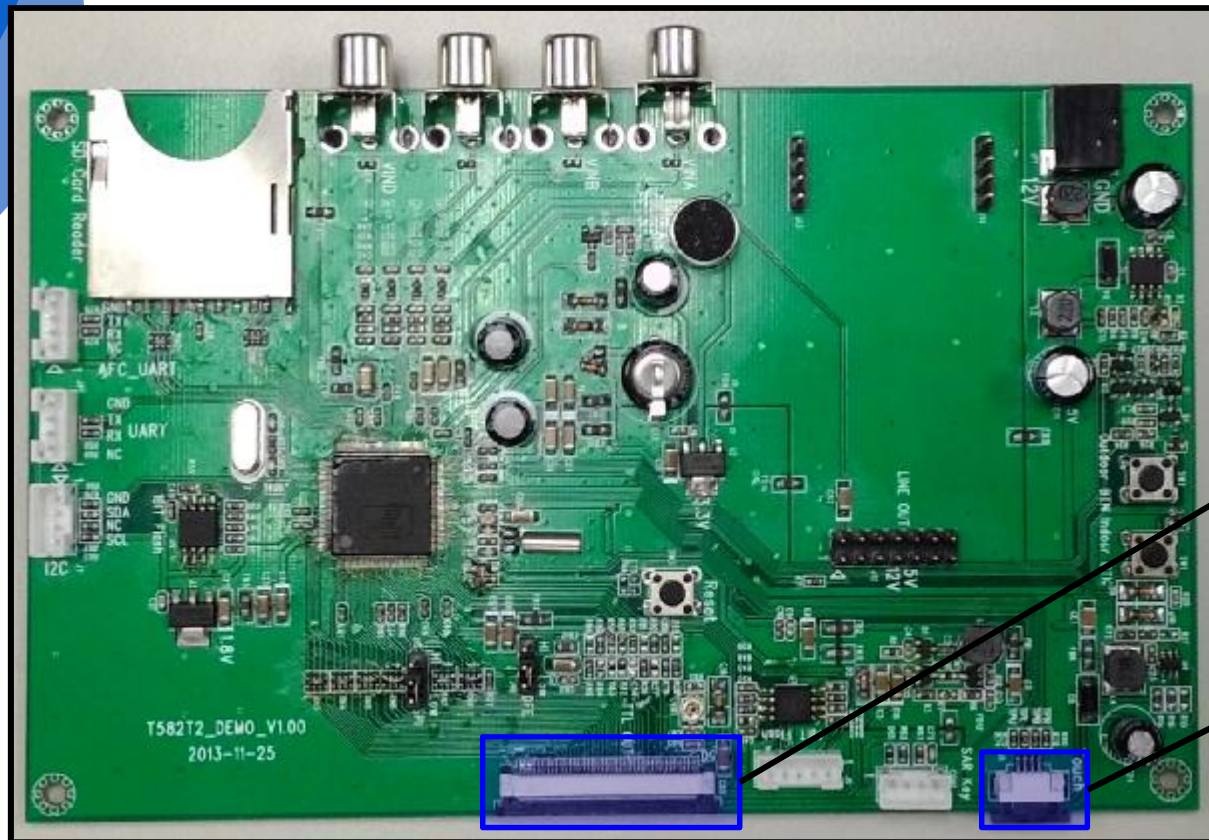
A. 12V

B

B. Backlight

GPIO10 pull high

TTL Out & TP in Demo Board



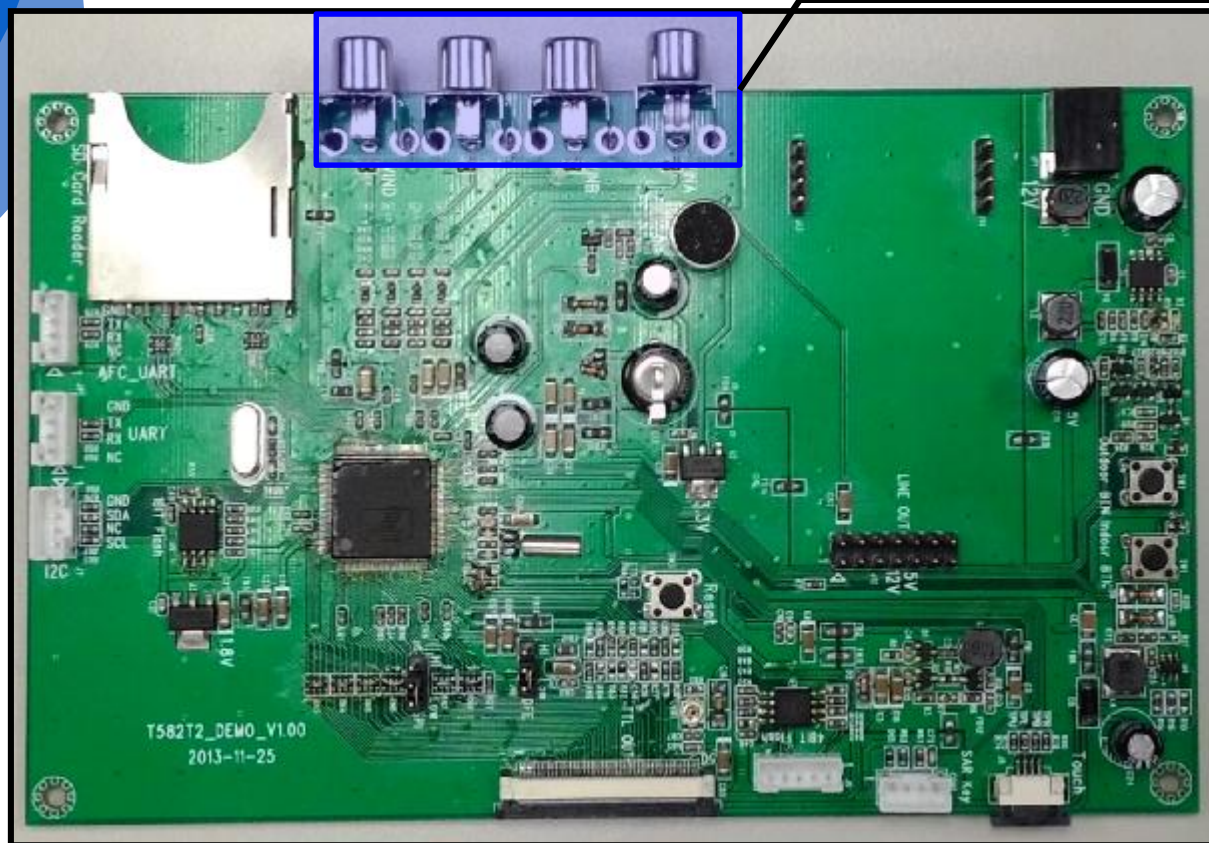
A

A. TTL Out

B

B. Touch Pad

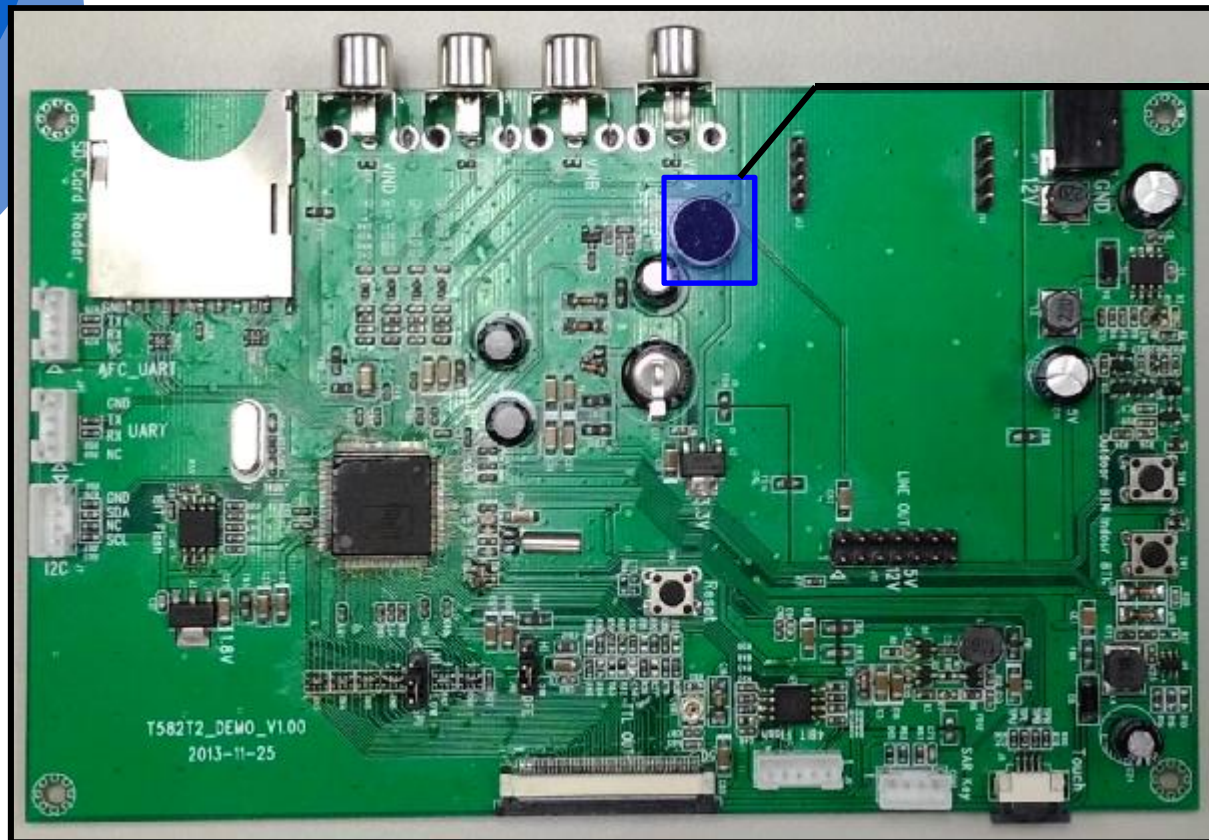
Video IN in Demo Board



4 3 2 1

1. Video IN A
2. Video IN B
3. Video IN C
4. Video IN D

MIC IN in Demo Board



1

1. MIC IN

Line Out in Demo Board (1/2)



A

A. LINE OUT

Line Out in Demo Board (2/2)

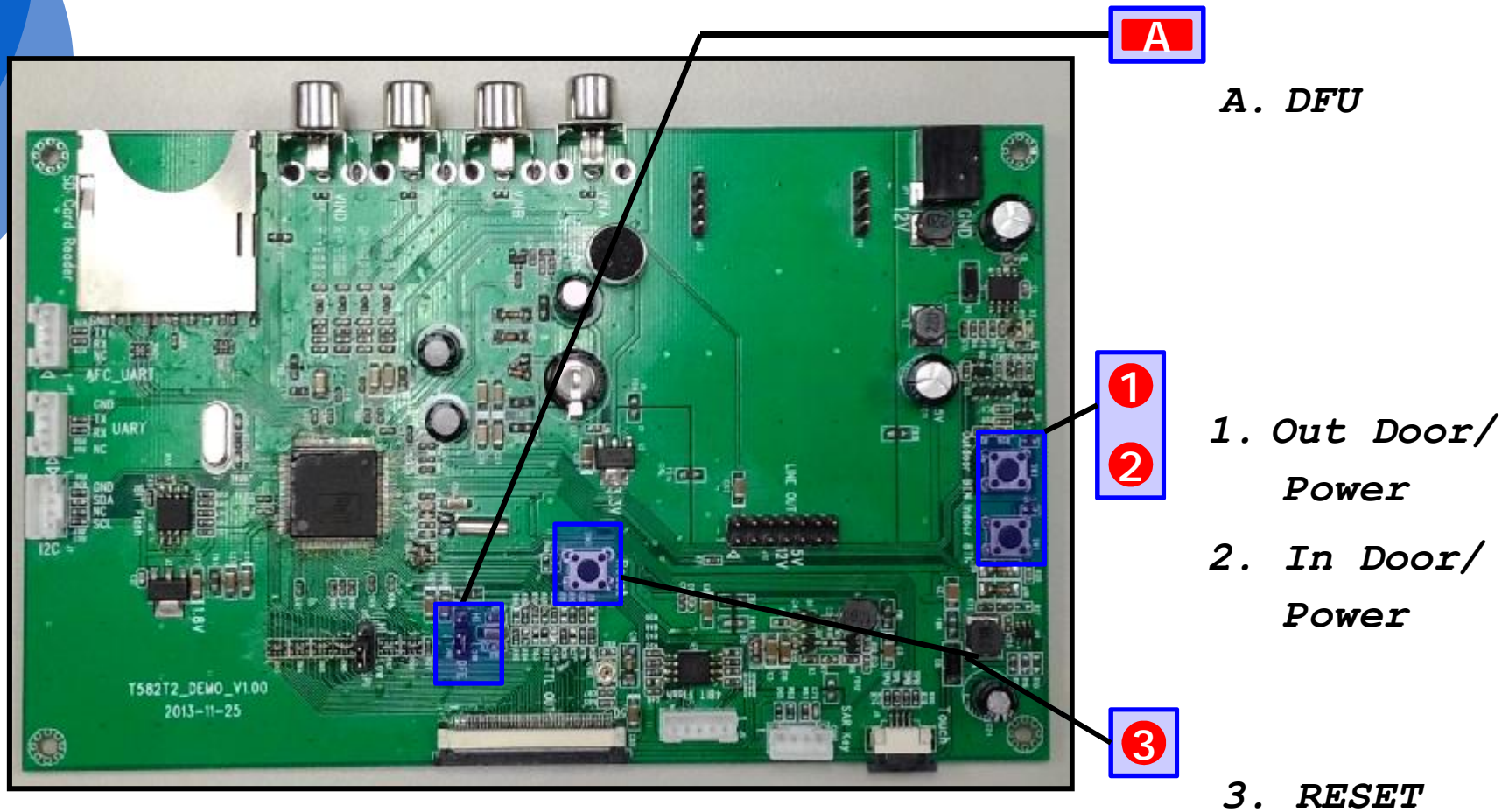
*AMP
daughter board*



A

A. LINE OUT

Buttons/Jump in Demo Board



Keypad in Demo Board

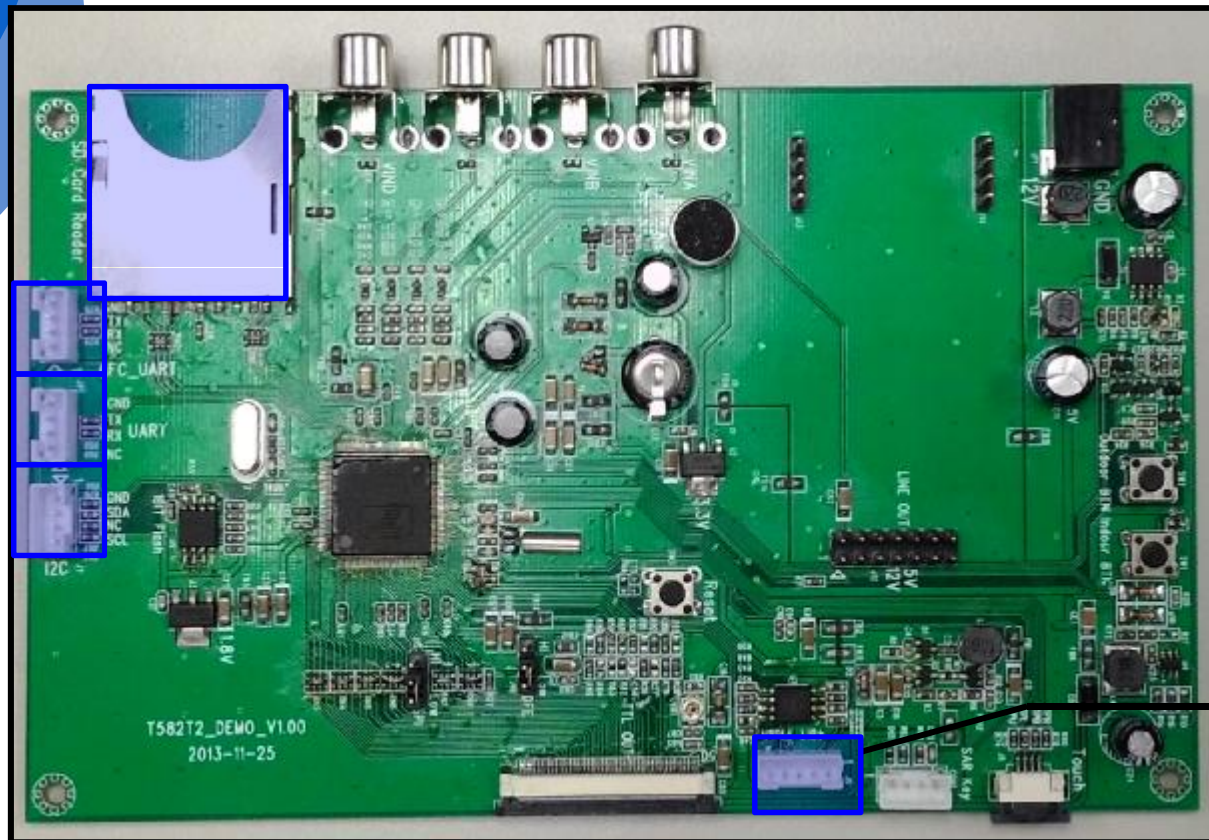


- 1. *KEY 1*
- 2. *KEY 2*
- 3. *KEY 3*
- 4. *KEY 4*
- 5. *KEY 5*
- 6. *KEY 6*
- 7. *KEY 7*



A. SARKEY

Peripherals in Demo Board



4

1. *AFC UART*

2. *UART*

1

3. *I2C*

2

4. *SD Card*

3

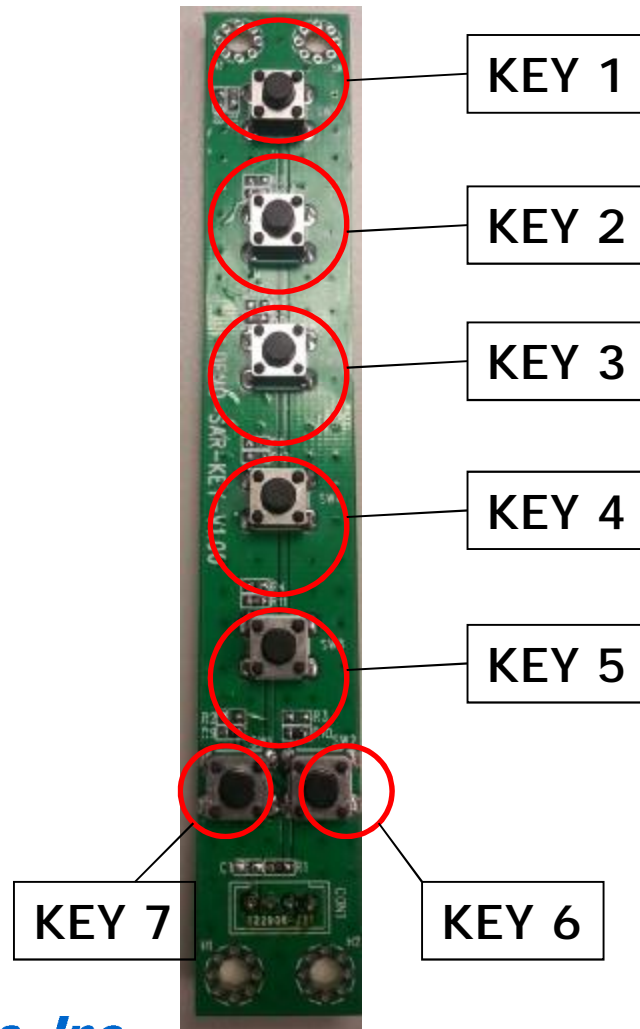
A

A. *4bit SPI NOR*
(Resource)

Buttons Mapping – Touch Pad



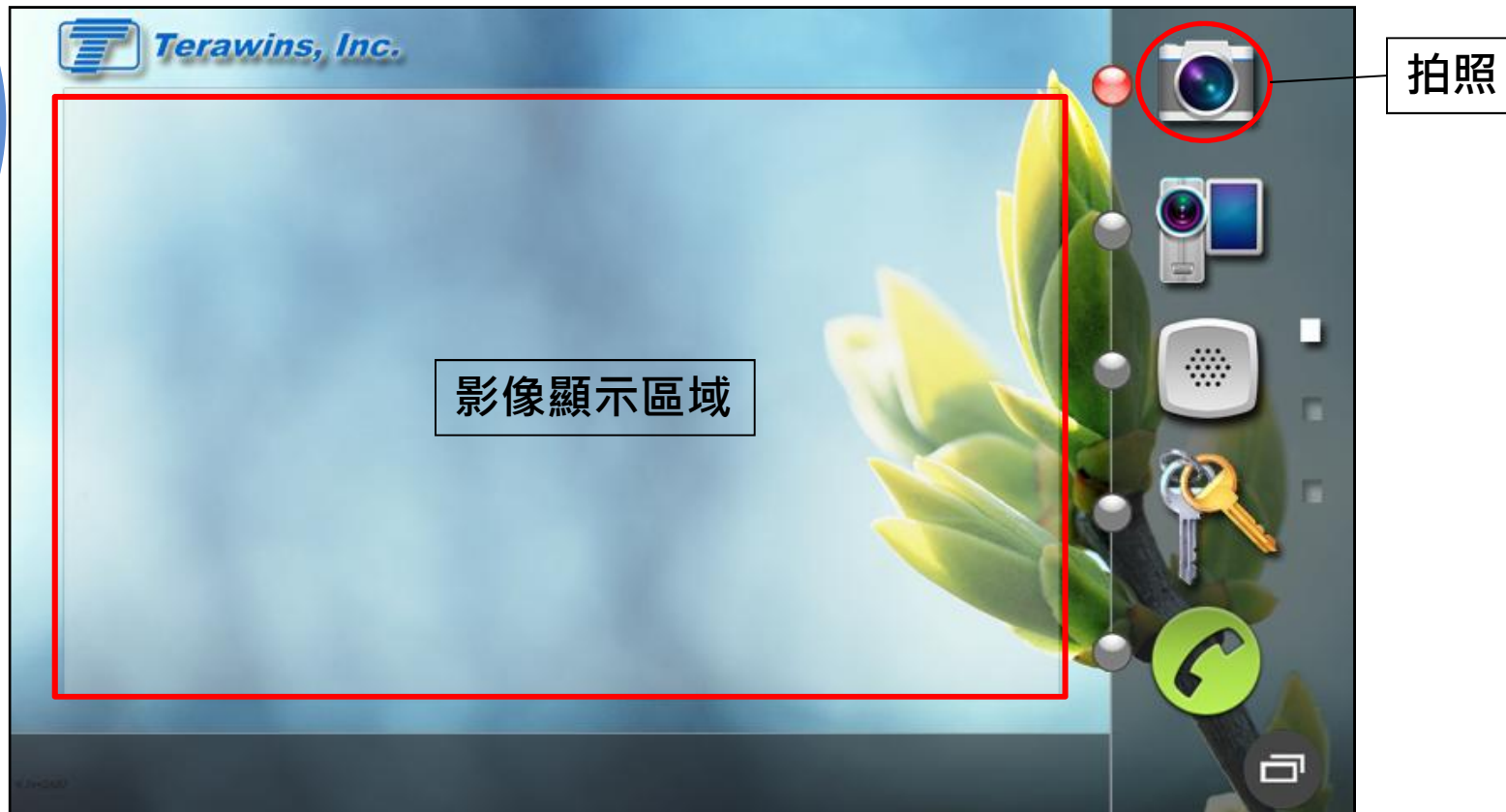
Buttons Mapping – Keypad



UI – Menu Tag 1



UI – Menu Tag 1 - Snapshot



拍照: 一次一張，存在NOR Flash

UI – Menu Tag 1 – Record



UI – Menu Tag 1 –Audio Message



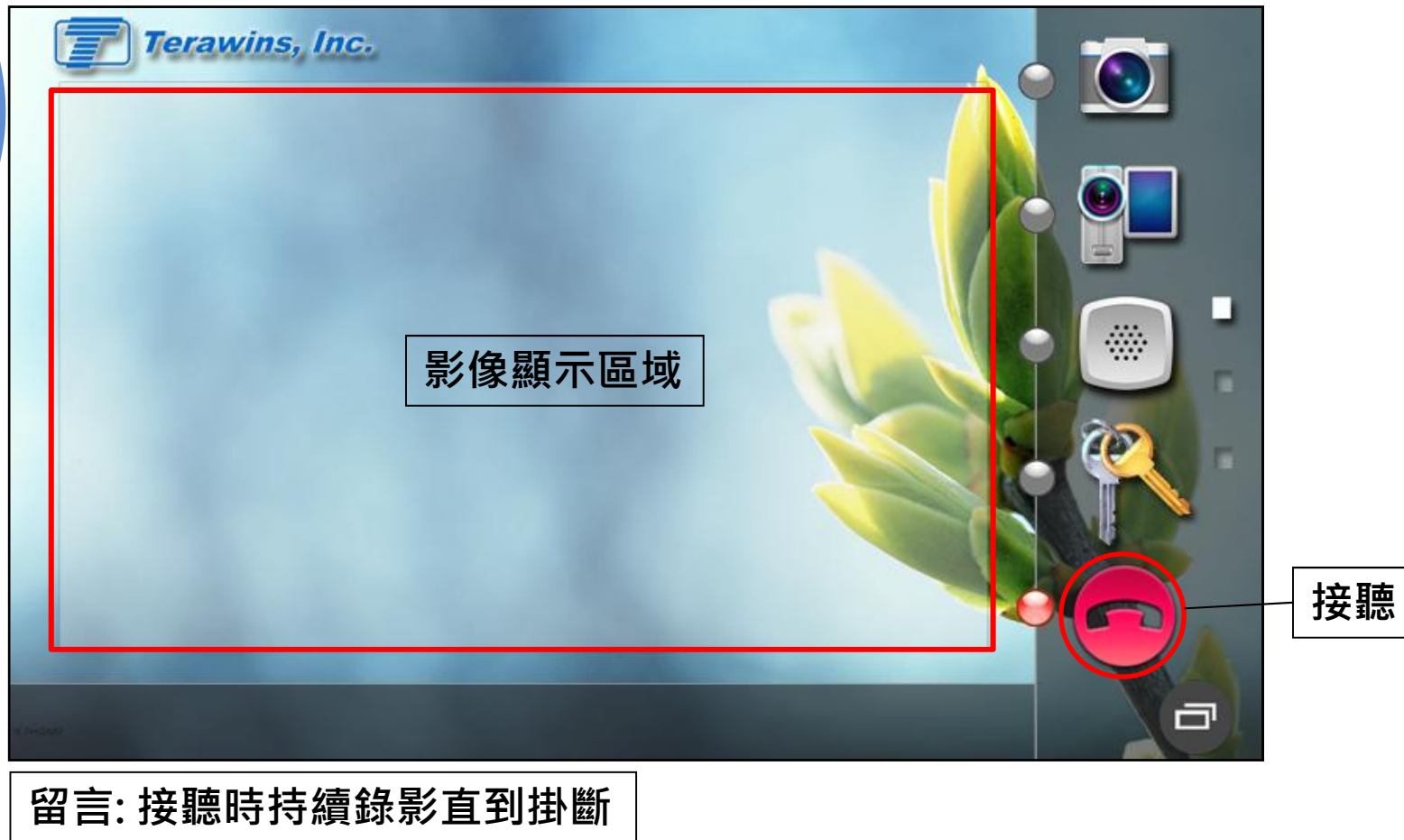
UI – Menu Tag 1 – Unlock



UI – Menu Tag 1 – Answer



UI – Menu Tag 1 – Answer



UI – Menu Tag 2



UI – Menu Tag 2 – Picture View



UI – Menu Tag 2 – Picture View



UI – Picture View – Motion detect



瀏覽照片:全螢幕模式:此照片之移動之物體範圍(若有移動紀錄)

UI – Menu Tag 2 - Playback



UI – Menu Tag 2 - Playback



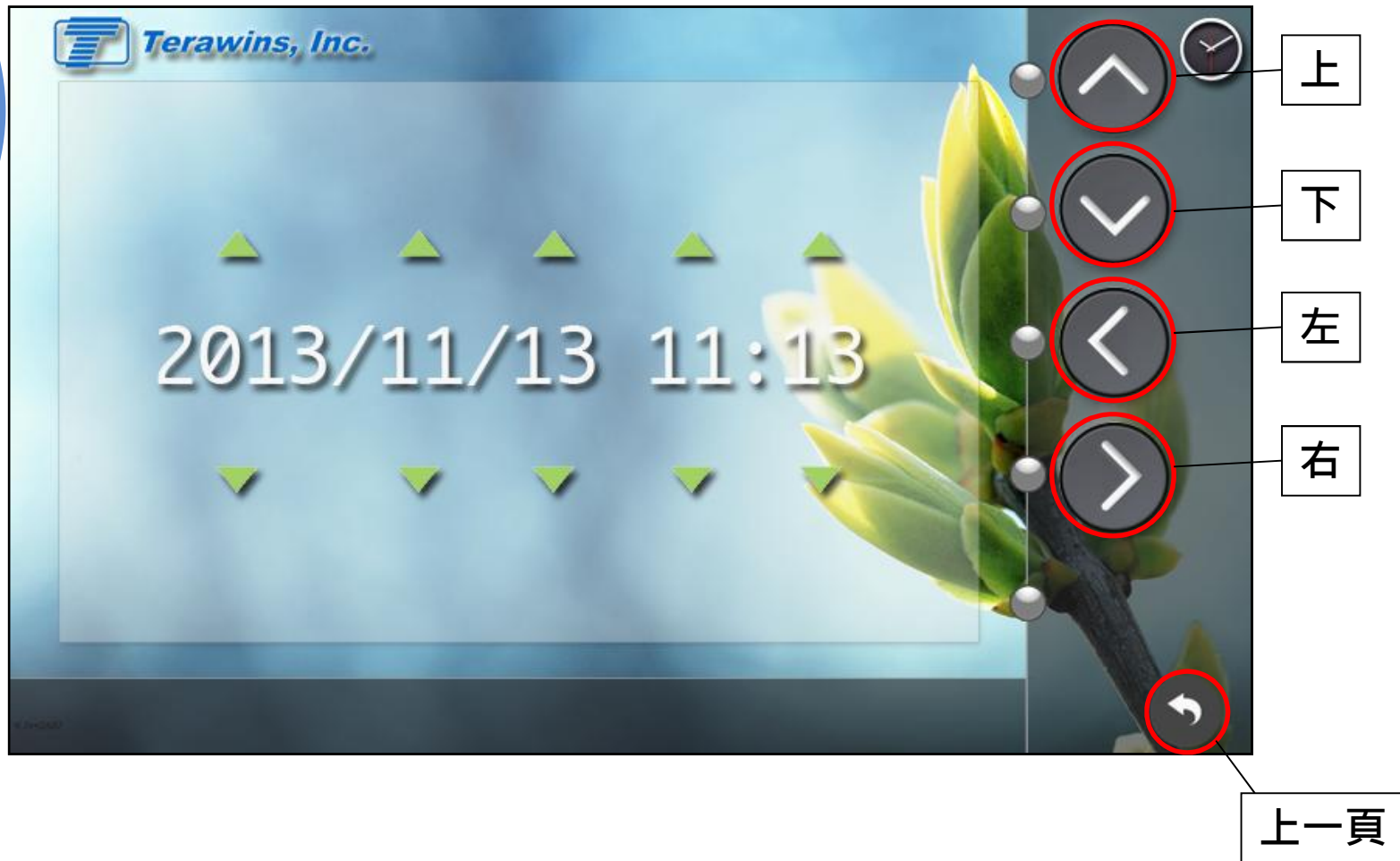
UI – Menu Tag 2 – Audio Play



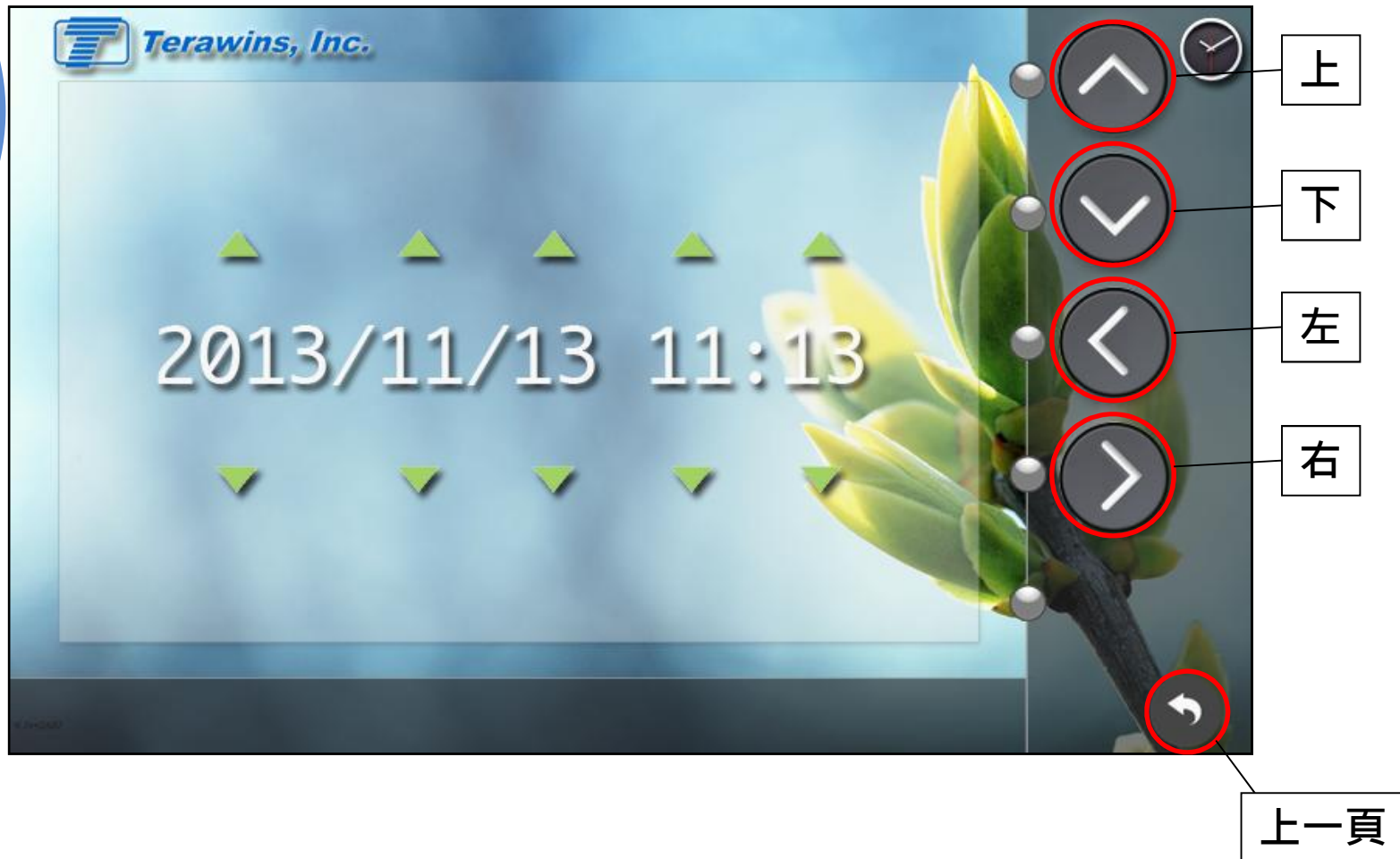
UI – Menu Tag 2 – Audio Play



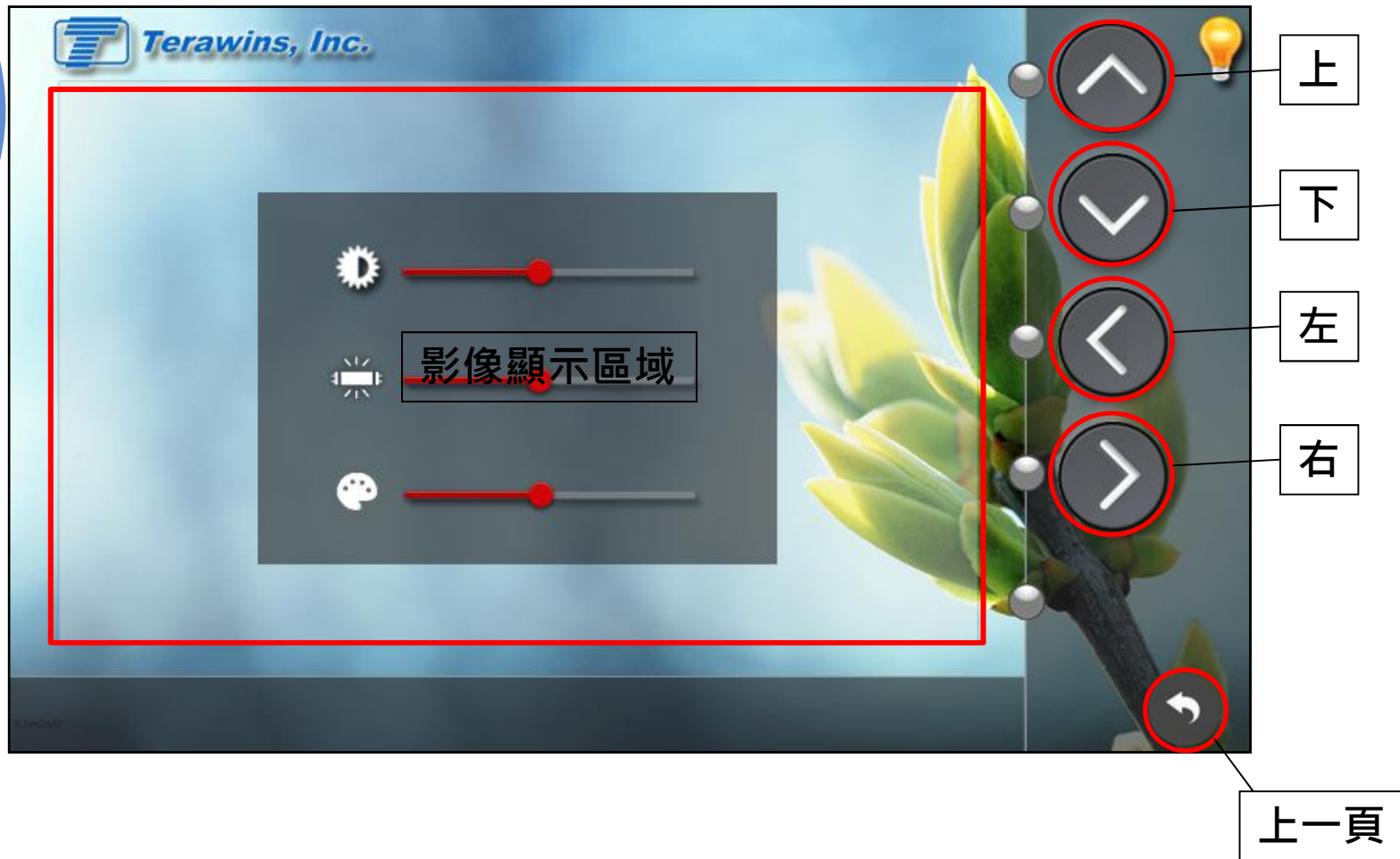
UI – Menu Tag 2 – Clock Setting



UI – Menu Tag 2 – Clock Setting



UI – Menu Tag 2 – Image Control



UI – Menu Tag 3



UI – Menu Tag 3 – Setting 1



UI – Menu Tag 3 – Setting 2

Terawins, Inc.

ALID_FS ☐ ◀ ▶

BSMODE ☐

TP_CAB

MDAREA

VERSION 2.000

上/上一頁

下/下一頁

往左/進入

往右/進入

回到Tag1

設定:留言檔案系統，檔案瀏覽模式，觸摸校正，MD範圍

UI – Setting 2– MD Area 1



UI – Setting 2– MD Area 2



UI – Menu Tag 3 – Motion Detect

