

Fun Cam for Palm OS

version 1.06



Compatible PDA : **Sony Clie** NX70, NX73, NX80, NZ90,
UX40, UX50 (Photo/Movie/Voice Rec/Infra-Red)
NR 70V (Infra Red + Photo)
NX60, TG50 (Infra Red /Voice Rec)

Pa1mone Zire 71 (Time Lapse Photo/ NO Infra-Red)
Tungsten T + Veo Camera (Time Lapse Photo /NO Infra-Red)
Treo 600 (Infra-Red + Photo)

Handera 330 (Infra-Red / Voice Rec)

BriCenter @2004

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General Information

Fun Cam adds new exciting features to your PDA Camera, Movie Rec and Voice recorder. Most remarkable ones are:

- Photo Camera**

Remote trigger of Capture Button using any infrared Remote Control
Time Lapse digital photo capture, custom interval.

- Movie Rec**

Remote trigger using remote control, to start and end movie clips
Time Lapse Movie clip recorder

- **Voice Recorder**

Use any infrared remote to control voice recording

- Low Power**

Low power selector turns off or adjust screen brightness to minimum to save PDA battery.

Lower position adds to Low mode, PDA capability to power off if delay periods are longer than 15 seconds.

Using Lower position and Stealth mode (muted) , makes PDA almost invisible to be detected on captures (Spy Cam mode).

Brief notes for advanced users

- Install FunCam.prc and FunCamLib.prc
- Run FunCam
- Register serial code for your Hotsync name
- Run again registered version
- Mute Fun Cam on Clie NX/NZ/UX/TG50 checking MUTE on sound (status bar)

Important Hints

To deactivate running program:

The easiest way, is to push any PDA application button, or TAP HOME ICON to get out from Capture application.

Or exit capture program and execute [Fun Cam](#) again (only apply to Zire 71).

Turning OFF PDA on LOW POWER = STANDARD, will deactivate FUN CAM too.

To Move to external memory or Delete [Fun Cam](#):

Be sure to deactivate program before perform those tasks.

TREO 600 users:

Deactivate picture confirmation option.

Time Lapse will not correct if confirmation boxes appears on display.

Common uses of Fun Cam

1) Photo Sequence Snapshots

Create photo series with 1 second between them with funny snapshots and faces.
Similar use as instant photo cabins on train and metro stations.

Time Lapse/ Photo Capture / Delay 10 / Capture 10 / Waiting 1 second

2) Spy Cam

Create series of pictures leaving PDA alone. Fun Cam will turn off until trigger time comes.
When finished, PDA will exit Camera application and turn off.

60 pictures , one each minute, turn off PDA after each picture, Turn Off PDA on exit

Time Lapse / Delay 10 / Capture 60 / Delay 60 / Lower power usage

Baby Sitter Controller (brief movie clip each 10 minutes)

Time Lapse / Movie Rec / Delay 10/ Capture 10 seconds/ 25 captures / 600 seconds delay / Lower Power usage

3) Remote Controlled Picture

Using any Infrared Remote Control (VCR/TV/DVD/etc) to trigger internal Camera/Movie recorder and take MULTIPLE remote pictures.

Photo: **Infra-Red/Photo Capture /10 IR events / Delay 3 seconds/ Beep on IR**

Movie: **Infra-Red/Movie Recorder / 5 IR events / Delay 1 second / Beep on IR**

4) Voice Recorder on meeting

The PDA placed in middle of meeting table. It can be turned on and off, to record important voice memos, orders or briefs, using any infrared remote control.

Infra-Red / Voice Recorder / IR events 0 / Beep on IR / Deactivate 600 seconds

5) Remote Snapshots Series

Creates series of pictures , that each starts with a button push of a remote control.

MIX / Photo Capture / IR events 1/ Beep on Ir / Delay 10 / Capture 10/ 1 second delay

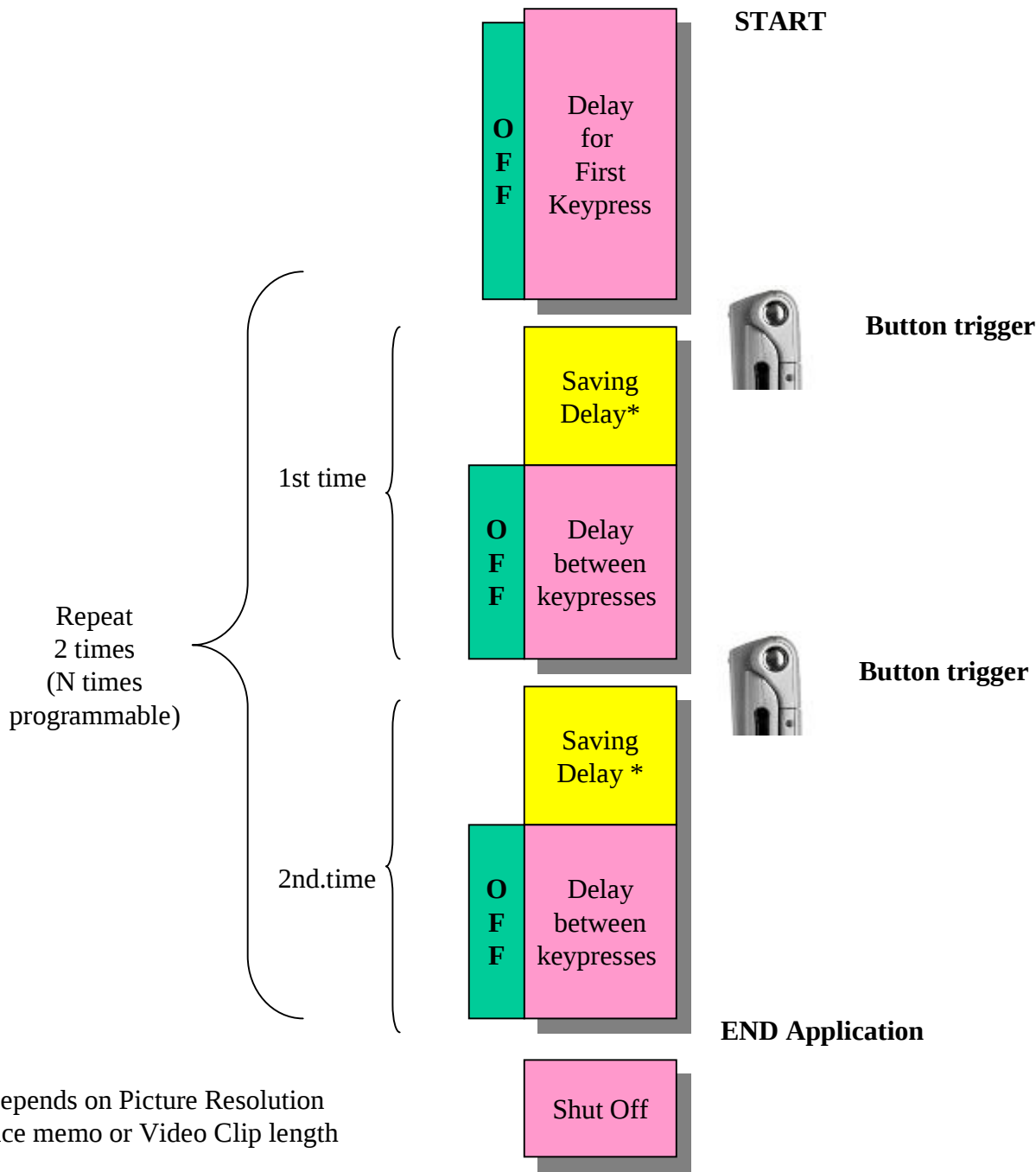
How it works:

Fun Cam can be programmed to emulate controlled Capture Button keystrokes on Photo Capture, Movie and Voice recorder applications included with handheld standard package.

Events that can be programmed by user

Low Power Mode

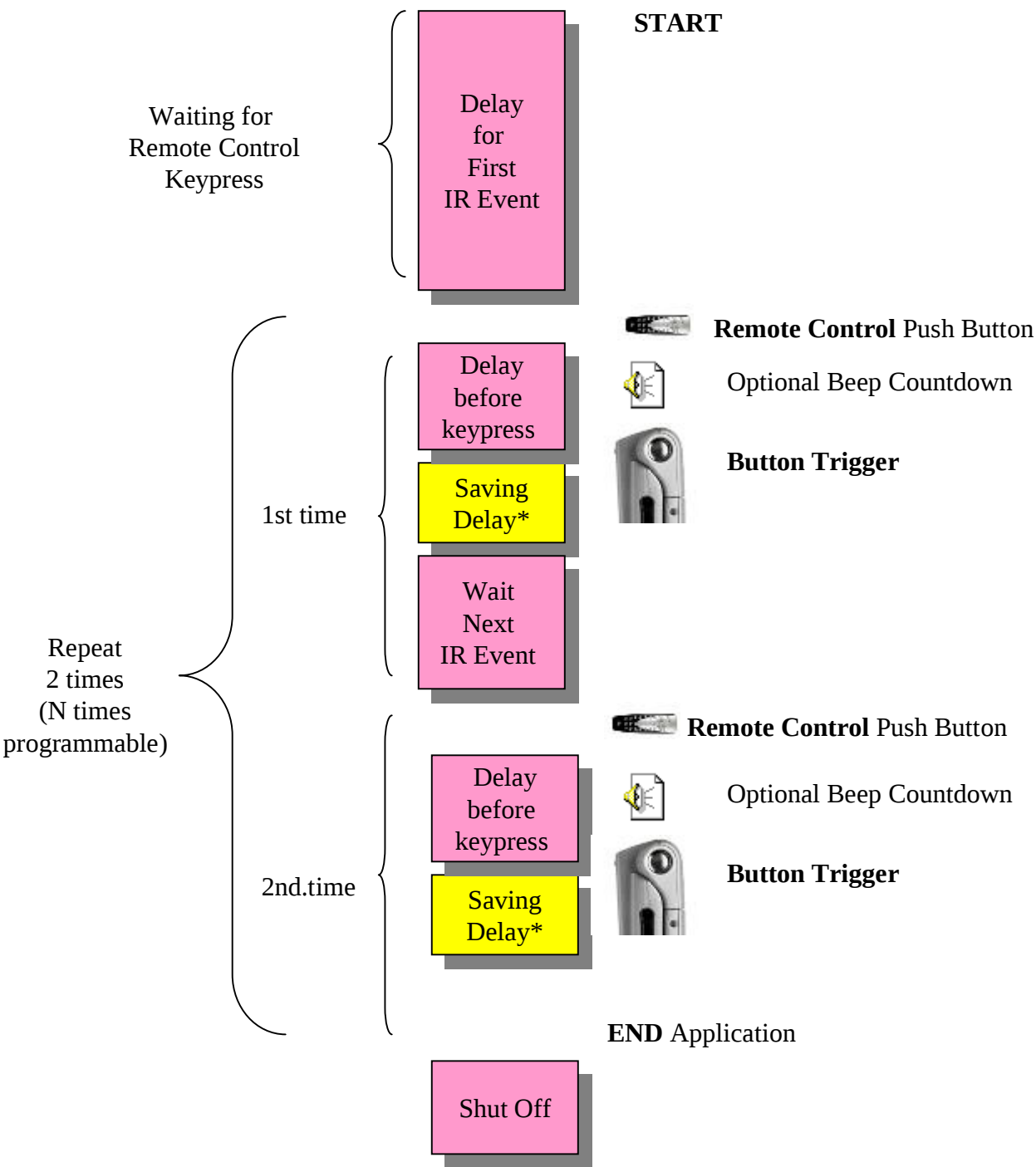
TIME LAPSE



* Depends on Picture Resolution
Voice memo or Video Clip length

Infrared Keystroke

Events that can be programmed by user



* Depends on Picture Resolution
Voice memo or Video Clip length

Mixed Mode (starts with IR event and continues with Time Lapse Sequence)

Events that can be programmed by user



Low Power Mode



Waiting for
Remote Control
Keypress

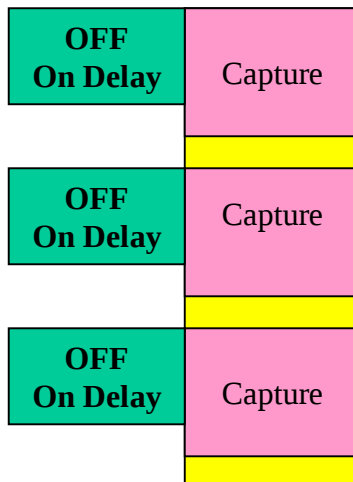


START

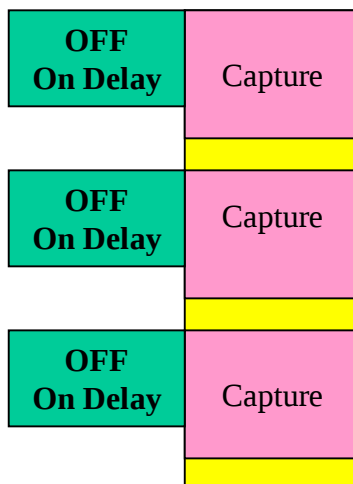


Remote Control Push Button

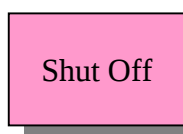
Repeat N times



Remote Control Push Button



END Application



FunCam known Limitations:

1) Delay on recognizing Infrared event on Movie Rec.

Software recognizes event, but may take 1 second for response.

PDA processor is highly used during movie recorder, this functions limits IR polling that harms video stability.

No delay limitation on Photo and Voice capture.

2) Limitation on Sony Clie NZ90

Using **Movie Recorder**, the IR recognition has a extra delay.

It will not be as fast as it is in the NX and UX models.

From pressing remote control Keystroke to Beep or trigger, delay can be more than 2 seconds.

This limitation does not affect Photo Capture or Voice Recorder, that are instant recognition.

3) IR range limitation Sony Clie NX73 and NX80

Infra-red on both models is facing through a side, with poor range if Remote control pulse directly heading to camera.

Normal coverage is 2 to 3 feet front (from 90 to 70 degrees) and 13 feet direct side beam.

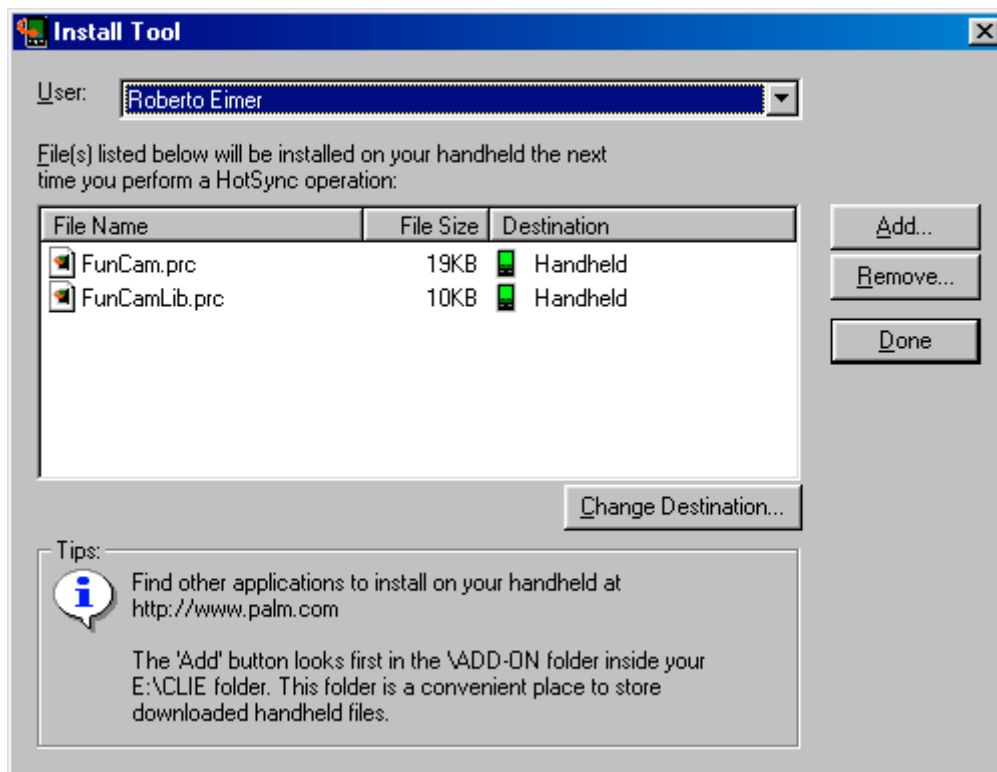
We recommend to use side beam, or beam close to unit and program 3 to 5 seconds delay before capture.

On Voice Rec mode, use unit facing remote control to Clie infra-red receiver side.

No need for delays in this mode.

Program Installation

Use PDA Install Tool with FunCam.prc and FunCamLib.prc and HotSync with handheld



Register Software

Evaluation software has all Fun Cam functionality as registered software for a period of 10 days after installation.

Some reminders will appear on the evaluation period and disappear on registration.

After 10 days, an unregistered Fun Cam will cease to work, and the user has to register or uninstall it.

To register locate Fun Cam sales links at:

<http://www.net-cell.com/funcam>

Remember that on customer buying form you will need to provide your HotSync name and Email.

Depending where you are buying, you will receive your registration number directly, or by email in few hours.

If code not received in next 24 hours after payment acknowledge, please send email with purchase order copy to funcam@net-cell.com

Programming Fun Cam

1 - Select Program



Infra-Red = uses Remote Control to generate a Capture button keystroke

TimeLapse = Time controlled keystroke to capture Photo/Movie/Voice

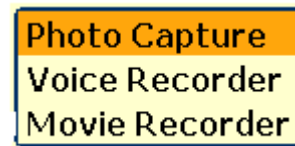
Mix = Remote control triggers a Time Lapse sequence

2 - Select Capture Function

Photo Capture = Takes digital pictures

Voice Recorder = Records voice memos

Movie Recorder = Capture movie clips



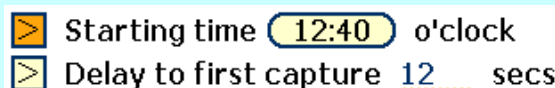
3 - Input values

IR events = Press key of Infra-Red remote control

IR Pairs = Press Key of infra-red remote control to start capture and Fun Cam will wait for a second infra-red event to turn off capture.

First capture option

CHOOSE ONE



Starting time = Fun Cam will start first capture at defined time

Delay for first capture = Seconds between START and first Picture/Movie Clip/Voice Rec

Delay to capture after IR = Fun Cam will wait time defined in this input, before start capture. Avoid to be pictured with remote control in hand.

Perform capture N times,

waiting XX seconds between them = Number of captures, and programmed delay time.

Set capture period to XX seconds = Seconds of Movie Clip or Voice recording.

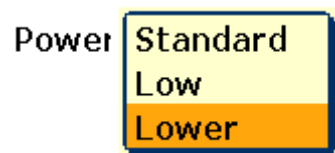
Deactivate after XXX seconds of no IR = Fun Cam will terminate programmed task if no Infra-Red signal is recognized before seconds defined

4 - Check boxes

Beep on IR ☐ = Generates a Beep when Ir Signal is recognized.

Beep on Event ☐ = Generates a when capture begins

5 - Low Power modes (Battery power saving)



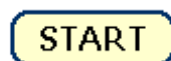
Standard = PDA will not sleep while Fun Cam is running

Low = PDA will sleep on delays longer than 12 seconds

Lower = Low plus backlight

Lowest = (Palm Zire 71 only) Lower plus LCD OFF

6 - Starting Fun Cam



Start running Fun Cam

Calls Photo Capture , Movie Recorder, or Voice Recorder

Waits for first IR or Delay Time

Starts Capture

To disable Fun Cam press Home Key

Fun Cam parameters

A) Infra-Red



App to control ▼ Photo Capture
 Number of IR events 10 (0=infinite)
 Delay to capture after IR 0 seconds

☒ Beep on IR Power ▼ Standard
 Deactivate after 300 secs of no IR

START

Infra-Red TimeLapse Mix
 App to control ▼ Movie Recorder
 Number of IR pairs 5 (0=infinite)
 Delay to capture after IR 3 seconds

☒ Beep on IR Power ▼ Lower
 Deactivate after 600 secs of no IR

START



Infra-Red TimeLapse Mix
 App to control ▼ Voice Recorder
 Number of IR pairs 5 (0=infinite)
 Delay to capture after IR 100 seconds

☒ Beep on IR Power ▼ Lower
 Deactivate after 600 secs of no IR

START



Number of IR events = Fun Cam will wait **N** Infra-Red recognition and push Capture button for each of them. After last capture, program will end. Value 0 makes Fun Cam wait ALWAYS for Infra-Red until user POWER OFF handheld or **Deactivate After XXX seconds no IR** happens.

Number of IR pairs = Equal to **Number of Ir Events multiplied by 2**.
 First IR will turn ON capture, second IR will turn off capture.

Delay to press the key after IR signal is received = Seconds delay after Infra-Red signal is received.
 This function avoids pictures where someone is holding the remote control

Beep on IR = Generates a beep sound to confirm that IR signal is received.

START = Launch Capture Function selected and Fun Cam process begins.

Low Power = Power saving modes (Standard/Low/Lower/Lowest see page 13th)

B) Time Lapse



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App to control ▼ Movie Recorder
 > Starting time 13:00 o'clock
 > Delay to first capture 3600 secs
 Set capture period to 300 seconds
 Perform capture 25 times, waiting 1800 seconds between them

☐ Beep on evt Power ▼ Low

START



App to control ▼ Photo Capture
 > Starting time 12:40 o'clock
 > Delay to first capture 12 secs

Perform capture 2 times, waiting 15 seconds between them

☐ Beep on evt Power Standard
 Low
 Lower

START



App to control ▼ Voice Recorder
 > Starting time 12:40 o'clock
 > Delay to first capture 12 secs

Set capture period to 10 seconds
 Perform capture 2 times, waiting 15 seconds between them

☐ Beep on evt Power Standard
 Low
 Lower

START

Delay to first capture = Seconds delay before generating first Capture keystroke

Set Capture period to XX seconds : Movie Clip / Voice Rec recording time.

Perform capture XX times

waiting YY seconds between them = Maximum of time controlled keystrokes (XX) and pause between them in seconds (YY)

Beep on event = Generates a beep sound before initiate capture.

Low Power = Power saving modes (Standard/Low/Lower/Lowest see page 13th)

START = Launch Capture Function selected and Fun Cam process begins.

C) Mixed Mode

Infra-Red	TimeLapse	Mix
-----------	-----------	-----

App to control ▼ Photo Capture
 Number of IR events 2 (0=infinite)
 Delay to capture after IR 2 seconds

Perform capture 2 times, waiting
3 seconds between them

☐ Beep on IR Power ▼ Standard
 Deactivate after 180 secs of no IR

START



Fun Cam 1.04

Infra-Red	TimeLapse	Mix
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App to control ▼ Voice Recorder
 Number of IR events 5 (0=infinite)
 Delay to capture after IR 0 seconds
 Set capture period to 10 seconds
 Perform capture 3 times, waiting
5 seconds between them

☒ Beep on IR Power ▼ Lower
 Deactivate after 300 secs of no IR

START

Infra-Red	TimeLapse	Mix
-----------	-----------	-----

App to control ▼ Movie Recorder
 Number of IR events 2 (0=Infinite)
 Delay to capture after IR 2 seconds
 Set capture period to 15 seconds
 Perform capture 2 times, waiting
30 seconds between them

☒ Beep on IR Power ▼ Standard
 Deactivate after 180 secs of no IR

START

Number of IR events = Fun Cam will wait N Infra-Red recognition and push Capture button for each of them. After last capture, program will end.
 Value 0 makes FunCam wait ALWAYS for Infra-Red until user POWER OFF handheld or **Deactivate After XXX seconds no IR** happens.

Number of IR pairs = Equal to **Number of Ir Events multiplied** by 2.
 First IR will turn ON capture, second IR will turn off capture.

Delay to press the key after IR signal is received = Seconds delay after Infra-Red signal is received.
 This function avoids pictures where someone is holding the remote control

Set Capture period to XX seconds : Movie Clip / Voice Rec recording time.

Perform capture XX times

waiting YY seconds between them = Maximum of time controlled keystrokes (XX) and pause between them in seconds (YY)

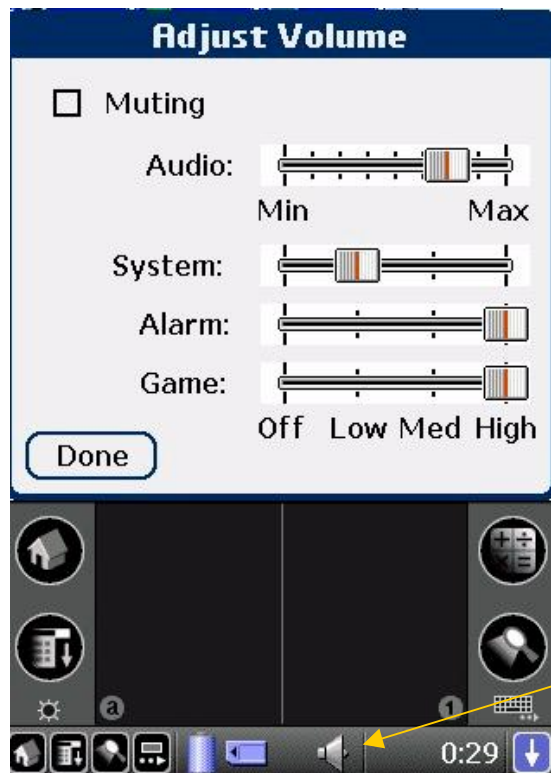
Beep on event = Generates a beep sound before initiate capture.

Low Power = Power saving modes (Standard/Low/Lower/Lowest see page 13th)

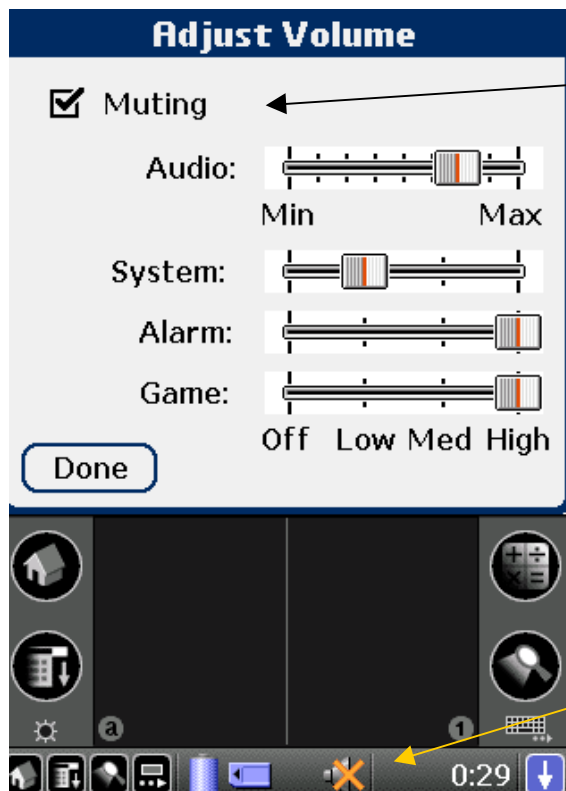
START = Launch Capture Function selected and FunCam process begins.

Muting Fun Cam on Clie NX/NZ/TG50 (Stealth Mode)

Instructions to mute system sound and Capture sounds:



Press Sound Icon



Select Mute

Icon will show that sound is Muted

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