

# PowerShot Basic

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August 1, 2010

## **Abstract**

An (incomplete) specification of the Basic language included in several Canon Powershot Cameras.

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## 0.1 Executing Scripts

This section contains information about the format and contents of the SD cards and basic script required for execution.

### 0.1.1 Format of the SD card

The SD card must contain the following items:

1. The string “SCRIPT” must be at offset 0x1F0 of the first sector (Boot sector).
2. The file “script.req” must exist on the root directory, and must only contain the string “for DC\_scriptdisk”
3. The file “extend.m” must exist on the root directory. This file must contain the BASIC script to execute.

### 0.1.2 Script extend.m

The script extend.m, residing on the root directory must contain the basic script. There are two callback subroutines called by the camera to initialize the execution:

```
private sub Initialize()  
  'Init code  
end sub  
  
private sub Terminate()  
  'Ending code  
end sub
```

The two functions will be called in order (first Initialize(), then Terminate()).

### 0.1.3 Starting the script

Once an SD with this format is inserted on the Camera, the script is called when the camera is in playback mode, pressing the key “set”.

### 0.1.4 Automatic script

The following bash script will enable the powershot basic on a SD card and write a test script in it.

```
#!/bin/bash  
#Enable powershot-basic scripting on a memory card  
  
if [ $# -ne 1 ]; then  
  echo  
  echo "Usage: ./makeScriptCard.sh [device]"  
  echo  
  echo "[device] is a fat32/fat16 partition on the memory card"  
  echo "example: ./makeScriptCard.sh /dev/sdb1"
```

```

    echo "NOTE: _please_run_as_root"
    exit 112
fi

#TAG on boot sector
echo -n SCRIPT | dd bs=1 count=6 seek=496 of=$1

#mount card
umount /mnt
mount $1 /mnt

#create script request file
echo "for_DC_scriptdisk" > /mnt/script.req

#Example script
echo 'private sub sayHello()
    a=LCDMsg_Create()
    LCDMsg_SetStr(a,"Hello_World!")
end sub

private sub Initialize()
    UI.CreatePublic()
    sayHello()
end sub
'>/mnt/extend.m

#Done!
echo "Please_check_/mnt_for_files_extend.m_and_script.req"

```

## 0.2 Language constructs

### 0.2.1 operators

Typical basic operators:

**comparators** <, >, <=, >=, =, <>

**arithmetics** +, -, /, \*

**logical** !

**unknown** ', >>, <<

**comment** '

### 0.2.2 Dim

Declares and allocates storage space for one or more variables.

```
Dim variablelist
```

Example:

```
dim b, a=3
```

### 0.2.3 for-next

```
For counter [ As datatype ] = start To end [ Step step ]  
    [ statements ]  
Next [ counter ]
```

Example:

```
For digit = 0 To 9  
    Next digit
```

### 0.2.4 do-while

```
Do { While | Until } condition  
    [ statements ]  
    [ Exit Do ]  
    [ statements ]  
Loop
```

Example:

```
Do While a>0  
    print a  
Loop
```

### 0.2.5 subroutines

```
[ Public ] | [ Private ]  
Sub name (Arg1,Arg2)  
    [ statements ]  
    [ Exit Sub ]  
    [ statements ]  
End Sub  
  
name(Arg1 , Arg2)
```

Example:

```
private sub test()  
end sub
```

## 0.3 Common functions()

Example:  
Common functions()

Allows the use of the following function:



### 0.3.1 ExMem.View()

TODO: Undocumented.

```
Example :  
ExMem.View ()
```

### 0.3.2 ExMem.AllocUncacheable()

TODO: Undocumented.

```
Example :  
ExMem.AllocUncacheable ()
```

### 0.3.3 ExMem.FreeUncacheable()

TODO: Undocumented.

```
Example :  
ExMem.FreeUncacheable ()
```

### 0.3.4 ExMem.AllocCacheable()

TODO: Undocumented.

```
Example :  
ExMem.AllocCacheable ()
```

### 0.3.5 ExMem.FreeCacheable()

TODO: Undocumented.

```
Example :  
ExMem.FreeCacheable ()
```

### 0.3.6 StartCameraLog()

TODO: Undocumented.

```
Example :  
StartCameraLog ()
```

### 0.3.7 ShowCameraLog()

TODO: Undocumented.

```
Example :  
ShowCameraLog ()
```

### 0.3.8 ShowCameraLogInfo()

TODO: Undocumented.

```
Example :  
ShowCameraLogInfo ()
```

### 0.3.9 StopCameraLog()

TODO: Undocumented.

```
Example :  
StopCameraLog ()
```

### 0.3.10 PutsCameraLogEvent()

TODO: Undocumented.

```
Example :  
PutsCameraLogEvent ()
```

### 0.3.11 OpLog.Create()

TODO: Undocumented.

```
Example :  
OpLog . Create ()
```

### 0.3.12 drysh()

TODO: Undocumented.

```
Example :  
drysh ()
```

### 0.3.13 NewTaskShell()

TODO: Undocumented.

```
Example :  
NewTaskShell ()
```

### 0.3.14 ExMem()

TODO: Undocumented.

```
Example :  
ExMem ()
```

### 0.3.15 StartRedirectUART()

Redirects stdout to a file in the SD card

```
StartRedirectUART ()
```

Example :

```
StartRedirectUART (1)  
Printf ("AAAAAAAAAAAAAAAAAAAAAA\n")
```

Note: For this function to work, an special file named “uartr.req” must reside in the root directory, containing the bytes:

```
77 21 ce 82 20 20 20
```

### 0.3.16 SS.Create()

TODO: Undocumented.

Example :

```
SS.Create ()
```

### 0.3.17 SetUSBToDCPMode()

TODO: Undocumented.

Example :

```
SetUSBToDCPMode ()
```

### 0.3.18 InitializeDCPClassFunctions()

TODO: Undocumented.

Example :

```
InitializeDCPClassFunctions ()
```

### 0.3.19 LoadScript()

TODO: Undocumented.

Example :

```
LoadScript ()
```

### 0.3.20 UnLoadScript()

TODO: Undocumented.

Example :

```
UnLoadScript ()
```

### 0.3.21 **Printf()**

TODO: Undocumented.

```
Example :  
Printf()
```

### 0.3.22 **RomChecksum()**

TODO: Undocumented.

```
Example :  
RomChecksum()
```

### 0.3.23 **PostLogicalEventToUI()**

TODO: Undocumented.

```
Example :  
PostLogicalEventToUI()
```

### 0.3.24 **PostLogicalEventForNotPowerType()**

TODO: Undocumented.

```
Example :  
PostLogicalEventForNotPowerType()
```

### 0.3.25 **PostEventShootSeqToUI()**

TODO: Undocumented.

```
Example :  
PostEventShootSeqToUI()
```

### 0.3.26 **ShowLogicalEventName()**

TODO: Undocumented.

```
Example :  
ShowLogicalEventName()
```

### 0.3.27 **SetAutoShutdownTime()**

TODO: Undocumented.

```
Example :  
SetAutoShutdownTime()
```

### **0.3.28 LockMainPower()**

TODO: Undocumented.

Example :  
LockMainPower ( )

### **0.3.29 UnlockMainPower()**

TODO: Undocumented.

Example :  
UnlockMainPower ( )

### **0.3.30 HardwareDefect()**

TODO: Undocumented.

Example :  
HardwareDefect ( )

### **0.3.31 HardwareDefectWithRestart()**

TODO: Undocumented.

Example :  
HardwareDefectWithRestart ( )

### **0.3.32 MechaUnRegisterEventProcedure()**

TODO: Undocumented.

Example :  
MechaUnRegisterEventProcedure ( )

### **0.3.33 Mecha.Create()**

TODO: Undocumented.

Example :  
Mecha.Create ( )

### **0.3.34 DispDev\_EnableEventProc()**

TODO: Undocumented.

Example :  
DispDev\_EnableEventProc ( )

### 0.3.35 SystemEventInit()

TODO: Undocumented.

Example :  
SystemEventInit ()

### 0.3.36 System.Create()

TODO: Undocumented.

Example :  
System . Create ()

### 0.3.37 UI.RegistDebugEventProc()

TODO: Undocumented.

Example :  
UI\_RegistDebugEventProc ()

### 0.3.38 UI.Create()

TODO: Undocumented.

Example :  
UI . Create ()

### 0.3.39 FA.Delete()

TODO: Undocumented.

Example :  
FA . Delete ()

### 0.3.40 Capture.Create()

TODO: Undocumented.

Example :  
Capture . Create ()

### 0.3.41 EngineDriver.Create()

TODO: Undocumented.

Example :  
EngineDriver . Create ()

### **0.3.42 StartTransferOrderMenu()**

TODO: Undocumented.

```
Example :  
StartTransferOrderMenu ()
```

### **0.3.43 StartDirectTransferManager()**

TODO: Undocumented.

```
Example :  
StartDirectTransferManager ()
```

### **0.3.44 StartDtConfirmMenu()**

TODO: Undocumented.

```
Example :  
StartDtConfirmMenu ()
```

### **0.3.45 StoptDtConfirmMenu()**

TODO: Undocumented.

```
Example :  
StoptDtConfirmMenu ()
```

### **0.3.46 StartDtExecuteMenu()**

TODO: Undocumented.

```
Example :  
StartDtExecuteMenu ()
```

### **0.3.47 StopRedirectUART()**

TODO: Undocumented.

```
Example :  
StopRedirectUART ()
```

### **0.3.48 RefreshUSBMode()**

TODO: Undocumented.

```
Example :  
RefreshUSBMode ()
```

### 0.3.49 UI.CreatePublic()

TODO: Undocumented.

```
Example :  
UI.CreatePublic ()
```

### 0.3.50 StoptDtExecuteMenu()

TODO: Undocumented.

```
Example :  
StoptDtExecuteMenu ()
```

### 0.3.51 TerminateDCPClassFunctions()

TODO: Undocumented.

```
Example :  
TerminateDCPClassFunctions ()
```

### 0.3.52 UiEvtnt\_StopDisguiseCradleStatus()

TODO: Undocumented.

```
Example :  
UiEvtnt_StopDisguiseCradleStatus ()
```

## 0.4 OpLog.Create()

```
Example :  
OpLog.Create ()
```

Allows the use of the following function:

### 0.4.1 OpLog.Show()

TODO: Undocumented.

```
Example :  
OpLog.Show ()
```

Note: needs prior call to the OpLog.Create() function to activate.



### 0.4.2 **OpLog.Play()**

TODO: Undocumented.

Example :  
`OpLog.Play()`

Note: needs prior call to the `OpLog.Create()` function to activate.

### 0.4.3 **OpLog.ReadFromROM()**

TODO: Undocumented.

Example :  
`OpLog.ReadFromROM()`

Note: needs prior call to the `OpLog.Create()` function to activate.

### 0.4.4 **OpLog.ReadFromSD()**

TODO: Undocumented.

Example :  
`OpLog.ReadFromSD()`

Note: needs prior call to the `OpLog.Create()` function to activate.

### 0.4.5 **OpLog.WriteToSD()**

TODO: Undocumented.

Example :  
`OpLog.WriteToSD()`

Note: needs prior call to the `OpLog.Create()` function to activate.

### 0.4.6 **OpLog.WriteToROM()**

TODO: Undocumented.

Example :  
`OpLog.WriteToROM()`

Note: needs prior call to the `OpLog.Create()` function to activate.

### 0.4.7 **OpLog.Get()**

TODO: Undocumented.

Example :  
`OpLog.Get()`

Note: needs prior call to the `OpLog.Create()` function to activate.

### 0.4.8 OpLog.Stop()

TODO: Undocumented.

```
Example :  
OpLog . Stop ( )
```

Note: needs prior call to the OpLog.Create() function to activate.

### 0.4.9 OpLog.Start()

TODO: Undocumented.

```
Example :  
OpLog . Start ( )
```

Note: needs prior call to the OpLog.Create() function to activate.

## 0.5 Driver.Create()

```
Example :  
Driver . Create ( )
```

Allows the use of the following function:

### 0.5.1 GetAdVBattBottom()

TODO: Undocumented.

```
Example :  
GetAdVBattBottom ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.2 GetAdChValue()

TODO: Undocumented.

```
Example :  
GetAdChValue ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.3 BeepDrive()

Does a beep on the camera speaker.

```
BeepDrive ( type )  
Type varies with camera .  
On G10:
```

```
type=3 is short double beep.  
type=2 is short single beep
```

```
Example :  
BeepDrive (3)
```

Note: needs prior call to the Driver.Create() function to activate.

#### 0.5.4 LEDDrive()

Control camera LEDs

```
LEDDrive(LED, value)
```

```
Value=0 : LED ON  
Value=1 : LED OFF
```

Example (Turns **on** and off all LEDs):

```
for a=0 to 10  
LEDDrive(a,0)  
next
```

```
Wait(500)
```

```
for a=0 to 10  
LEDDrive(a,1)  
next
```

Note: needs prior call to the Driver.Create() function to activate.

#### 0.5.5 VbattGet()

TODO: Undocumented.

```
Example :  
VbattGet()
```

Note: needs prior call to the Driver.Create() function to activate.

#### 0.5.6 ShowPhySwStatus()

TODO: Undocumented.

```
Example :  
ShowPhySwStatus()
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.7 SetRawSWCheckMode()

TODO: Undocumented.

```
Example :  
SetRawSWCheckMode ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.8 OnPrintPhySw()

TODO: Undocumented.

```
Example :  
OnPrintPhySw ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.9 OffPrintPhySw()

TODO: Undocumented.

```
Example :  
OffPrintPhySw ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.10 GetSwitchStatus()

TODO: Undocumented.

```
Example :  
GetSwitchStatus ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.11 ShowSDStatus()

TODO: Undocumented.

```
Example :  
ShowSDStatus ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.12 GetSDDetect()

TODO: Undocumented.

```
Example :  
GetSDDetect ( )
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.13 GetSDProtect()

TODO: Undocumented.

```
Example :  
GetSDProtect ()
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.14 SetIgnoreAVJACK()

TODO: Undocumented.

```
Example :  
SetIgnoreAVJACK ()
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.15 GetDialEventId()

TODO: Undocumented.

```
Example :  
GetDialEventId ()
```

Note: needs prior call to the Driver.Create() function to activate.

### 0.5.16 SetSDPwrPort()

TODO: Undocumented.

```
Example :  
SetSDPwrPort ()
```

Note: needs prior call to the Driver.Create() function to activate.

## 0.6 System.Create()

```
Example :  
System . Create ()
```

Allows the use of the following function:

### 0.6.1 Driver\_EnableEventProc()

TODO: Undocumented.

```
Example :  
Driver_EnableEventProc ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.2 Driver.Create()

TODO: Undocumented.

```
Example :  
Driver . Create ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.3 strcpy()

TODO: Undocumented.

```
Example :  
strcpy ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.4 strlen()

TODO: Undocumented.

```
Example :  
strlen ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.5 strcmp()

TODO: Undocumented.

```
Example :  
strcmp ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.6 sprintf()

TODO: Undocumented.

```
Example :  
sprintf ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.7 memcpy()

TODO: Undocumented.

```
Example :  
memcpy ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.8 **memset()**

TODO: Undocumented.

Example :  
`memset()`

Note: needs prior call to the `System.Create()` function to activate.

### 0.6.9 **memcmp()**

TODO: Undocumented.

Example :  
`memcmp()`

Note: needs prior call to the `System.Create()` function to activate.

### 0.6.10 **sscanf()**

TODO: Undocumented.

Example :  
`sscanf()`

Note: needs prior call to the `System.Create()` function to activate.

### 0.6.11 **atol()**

TODO: Undocumented.

Example :  
`atol()`

Note: needs prior call to the `System.Create()` function to activate.

### 0.6.12 **Open()**

TODO: Undocumented.

Example :  
**`Open()`**

Note: needs prior call to the `System.Create()` function to activate.

### 0.6.13 **Read()**

TODO: Undocumented.

Example :  
`Read()`

Note: needs prior call to the `System.Create()` function to activate.

### 0.6.14 Write()

TODO: Undocumented.

Example :  
**Write()**

Note: needs prior call to the System.Create() function to activate.

### 0.6.15 Close()

TODO: Undocumented.

Example :  
**Close()**

Note: needs prior call to the System.Create() function to activate.

### 0.6.16 Lseek()

TODO: Undocumented.

Example :  
**Lseek()**

Note: needs prior call to the System.Create() function to activate.

### 0.6.17 Fopen\_Fut,Fclose\_Fut,Fread\_Fut,Fwrite\_Fut,Fseek\_Fut

Stream file manipulation functions. Needs to be exported using System.Create()

```
Fopen_Fut ()  
Fclose_Fut ()  
Fwrite_Fut ()  
Fseek_Fut ()  
  
Example :  
Dim a  
  
System.Create ()  
  
a= Fopen_Fut ("A/test.txt","w")  
Fwrite_Fut ("AAAA",1,4,a)  
Fclose_Fut (a)
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.18 CreateCountingSemaphore()

TODO: Undocumented.

Example :  
**CreateCountingSemaphore()**



Note: needs prior call to the System.Create() function to activate.

### **0.6.19 DeleteSemaphore()**

TODO: Undocumented.

Example :  
DeleteSemaphore ( )

Note: needs prior call to the System.Create() function to activate.

### **0.6.20 TakeSemaphore()**

TODO: Undocumented.

Example :  
TakeSemaphore ( )

Note: needs prior call to the System.Create() function to activate.

### **0.6.21 GiveSemaphore()**

TODO: Undocumented.

Example :  
GiveSemaphore ( )

Note: needs prior call to the System.Create() function to activate.

### **0.6.22 GetTimeOfSystem()**

TODO: Undocumented.

Example :  
GetTimeOfSystem ( )

Note: needs prior call to the System.Create() function to activate.

### **0.6.23 CreateTask()**

TODO: Undocumented.

Example :  
CreateTask ( )

Note: needs prior call to the System.Create() function to activate.

### **0.6.24 ExitTask()**

TODO: Undocumented.

Example :  
ExitTask ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.25 SleepTask()

TODO: Undocumented.

Example :  
SleepTask ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.26 CPrintf()

TODO: Undocumented.

Example :  
CPrintf ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.27 CPutChar()

TODO: Undocumented.

Example :  
CPutChar ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.28 GetCh()

TODO: Undocumented.

Example :  
GetCh ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.29 OpenConsole()

TODO: Undocumented.

Example :  
OpenConsole ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.30 CloseConsole()

TODO: Undocumented.

Example :  
CloseConsole ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.31 GetStringWithPrompt()

TODO: Undocumented.

```
Example :  
GetStringWithPrompt ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.32 RotateConsoleZOrder()

TODO: Undocumented.

```
Example :  
RotateConsoleZOrder ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.33 ExecuteEventProcedure()

TODO: Undocumented.

```
Example :  
ExecuteEventProcedure ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.34 ExportToEventProcedure()

TODO: Undocumented.

```
Example :  
ExportToEventProcedure ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.35 DeleteProxyOfEventProcedure()

TODO: Undocumented.

```
Example :  
DeleteProxyOfEventProcedure ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.36 CreateProxyOfEventProcedure()

TODO: Undocumented.

```
Example :  
CreateProxyOfEventProcedure ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.37 WriteToRom()

TODO: Undocumented.

Example :  
WriteToRom ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.38 EraseSectorOfRom()

TODO: Undocumented.

Example :  
EraseSectorOfRom ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.39 EraseSignature()

TODO: Undocumented.

Example :  
EraseSignature ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.40 GetSystemTime()

TODO: Undocumented.

Example :  
GetSystemTime ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.41 ShowAllTaskInfo()

Show all running task status. Equivalent to unix “top” command. NOTE: Must have UART redirection enabled to see results in SD log. See StartRedirectUART()

Example :  
ShowAllTaskInfo ( )

Output in Powershot G10 (file 0000XXXX.log):

SP							
errLogTask	00c6001a	SUSPEND	0	-----	0040/0400	06	00386ba8
WdtPrint	001d0007	WAIT	1	SEM(001c0014)	0098/0200	29	0037c2b8
MechaShutt	008f0011	WAIT	1	SEM(008d0066)	0088/0400	13	00380f18
Bye	00e70020	WAIT	1	SEM(00e6008e)	0088/0200	26	0038b590
SynchTask	014f002c	WAIT	1	EVENT(014c0025)	00d0/1000	05	003941a0
SyncPeriod	0150002d	WAIT	1	SEM(014d00d5)	0090/1000	03	003951e8
ImageSenso	00520009	WAIT	2	EVENT(00510005)	0100/1000	06	0037e260
Nd	00940012	WAIT	5	SEM(00910069)	00b8/0400	17	003812f0
WBIntegTas	016b0030	WAIT	6	RCVMQ(01690026)	00e0/1000	05	003981b0

ZoomEvent	0074000c	WAIT	8	EVENT(00720006)	00c0/0400	18	0037f2b8
FocusEvent	007e000e	WAIT	8	EVENT(007d0007)	00c0/0400	18	0037fec8
IrisEvent	00890010	WAIT	8	EVENT(00880008)	00c8/0400	19	00380ad0
FocusLens	007b000d	WAIT	9	RCVMQ(00790006)	00b0/0800	08	0037fad0
Iris	0086000f	WAIT	9	RCVMQ(00840008)	00b0/0800	08	003806e0
ASIF	00bb0017	WAIT	9	SEM(00ba007f)	00a0/1000	03	00384f30
ZoomLens	0071000b	WAIT	10	RCVMQ(006f0004)	00b0/0800	08	0037eec0
Thermomete	0055000a	WAIT	17	SLEEP(0055000a)	00f8/0400	24	0037e670
ImgPlayDrv	00b50016	WAIT	19	RCVMQ(00b1000c)	0540/1000	32	00383f00
CZ	009a0013	WAIT	21	RCVMQ(0098000a)	00b0/0800	08	00381b00
MotionVect	01380029	WAIT	21	RCVMQ(01340016)	02b8/0800	33	00390fa0
AfIntSrvTa	0155002e	WAIT	21	RCVMQ(0154001b)	00b0/1000	04	003961d0
OBCtrlTask	016f0031	WAIT	21	EVENT(016e002d)	00e8/0400	22	003985b0
ExpDrvTask	01730032	WAIT	21	RCVMQ(0171002a)	00d8/0800	10	00398dc8
EPChargeT	017f0034	WAIT	21	RCVMQ(017d0030)	00e0/0800	10	0039a5d0
CntFlashTa	01840035	WAIT	21	EVENT(01810033)	00c8/0800	09	0039adf0
ISComTask	00a50014	WAIT	22	SEM(00a40074)	0170/1000	08	00382b30
LEDCon	00ac0015	WAIT	22	RCVMQ(00aa000b)	0108/0400	25	00382eb8
BeepTask	00c50019	WAIT	22	SEM(00c10082)	00b8/0800	08	00386728
BrtMsrTask	01790033	WAIT	22	RCVMQ(0177002d)	0188/1000	09	00399d20
PrCSSFil	01ad0039	WAIT	22	RCVMQ(01ab0043)	00b8/1000	04	0039ce10
PhySw	00ce001c	WAIT	23	SLEEP(00ce001c)	0250/0800	28	00388b80
SsTask	00d4001e	WAIT	23	RCVMQ(00d30012)	00b8/1000	04	0038a350
CaptSeqTas	00e2001f	WAIT	23	RCVMQ(00df0013)	00c0/1000	04	0038b350
FsIoNotify	00fe0024	WAIT	23	RCVMQ(00fd0014)	00b0/1000	04	0037be90
Fencing	01330028	WAIT	23	EVENT(0131001f)	00d8/0800	10	00390978
AFTask	0158002f	WAIT	23	RCVMQ(0156001c)	00b8/1000	04	003971d0
WBCtrl	018f0037	WAIT	23	RCVMQ(018e0033)	01d8/1000	11	0037ae00
WdtReset	001b0006	WAIT	24	SLEEP(001b0006)	0080/0200	25	0037c0c8
CtrlSrv	00cc001b	RUNNING	24	-----	0c28/1800	50	00388260
JogDial	00cf001d	WAIT	24	SEM(00d00088)	00b8/0800	08	00389348
EvShel	01bd003d	WAIT	24	SEM(01c400f5)	01a0/8000	01	003a7d48
ConsoleSvr	01c3003f	WAIT	24	RCVMQ(01be0046)	0198/0800	19	003a8e38
FolderCrea	01e10042	WAIT	24	SEM(01df010a)	0098/0800	07	0038c190
AudioLvl	00c00018	WAIT	25	SEM(00ed0093)	00a8/1000	04	00385f30
DevelopMod	013f002a	WAIT	25	RCVMQ(013e0019)	00e0/1000	05	00392180
DetectVert	014a002b	WAIT	25	SEM(014900d4)	0090/1000	03	003931d8
ChaceFace	01b2003a	WAIT	25	EVENT(01b00036)	01d8/1000	11	0039dcf8
DispFace	01b3003b	WAIT	25	EVENT(01b10037)	0650/1000	39	0039e888
LowConsole	01c2003e	WAIT	25	SEM(00050003)	00b0/0800	08	003a8640
WBCR2Calc	01a80038	WAIT	26	RCVMQ(01a60041)	00b0/1000	04	0039bce0
DetectMove	01b6003c	WAIT	26	RCVMQ(01b40044)	0200/1000	12	0039fcec
ReadSchedu	01100026	WAIT	27	EVENT(010f001c)	0118/1000	06	0038f180
ReadFileTa	01120027	WAIT	27	EVENT(0111001d)	0694/1000	41	00390178
UartLog	020b0047	WAIT	27	SEM(020c012c)	0098/1000	03	0037d2c0
TempCheck	00eb0021	WAIT	29	SLEEP(00eb0021)	00a0/0400	15	0038b980
DPOFTask	01050025	WAIT	29	EVENT(0102001b)	084c/1000	51	0038e140
CtgTotalTa	01dd0041	WAIT	29	RCVMQ(01dc0048)	00b8/1000	04	003a9e48
MetaCtgPrs	01e60043	WAIT	30	RCVMQ(01e4004a)	0140/1000	07	003aadc8
MetaCtg	01e70044	WAIT	30	RCVMQ(01e30049)	08a0/1000	53	003abe48
ClockSave	000e0004	READY	32	-----	0060/0200	18	00379e50
idle	00010001	READY	33	-----	0070/00a0	70	00379c38

Note: needs prior call to the System.Create() function to activate.

## 0.6.42 memShow()

TODO: Undocumented.

Example :  
memShow()

Note: needs prior call to the System.Create() function to activate.

## 0.6.43 Wait()

Wait a number of milliseconds.

Wait()

Example :  
Wait(100)

Note: needs prior call to the System.Create() function to activate.

#### 0.6.44 AllocateMemory()

TODO: Undocumented.

Example :  
AllocateMemory ( )

Note: needs prior call to the System.Create() function to activate.

#### 0.6.45 FreeMemory()

TODO: Undocumented.

Example :  
FreeMemory ( )

Note: needs prior call to the System.Create() function to activate.

#### 0.6.46 Poke32()

Modify memory dword.

Poke32 ( )  
  
Example :  
Poke32 (0x1234 ,0 x11223344 )

Note: needs prior call to the System.Create() function to activate.

#### 0.6.47 Poke16()

Modify memory word.

Poke16 ( )  
  
Example :  
Poke16 (0x1234 ,0 x1122 )

Note: needs prior call to the System.Create() function to activate.

#### 0.6.48 Poke8()

Modify memory byte.

Poke8 ( )  
  
Example :  
Poke8 (0x1234 ,0 x11 )

Note: needs prior call to the System.Create() function to activate.

### 0.6.49 Peek32()

TODO: Undocumented.

Example :  
Peek32 ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.50 Peek16()

TODO: Undocumented.

Example :  
Peek16 ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.51 Peek8()

TODO: Undocumented.

Example :  
Peek8 ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.52 Dump()

TODO: Undocumented.

Example :  
Dump ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.53 Dump32()

TODO: Undocumented.

Example :  
Dump32 ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.54 SDump()

TODO: Undocumented.

Example :  
SDump ( )

Note: needs prior call to the System.Create() function to activate.

### 0.6.55 MonSelEvent()

TODO: Undocumented.

```
Example :  
MonSelEvent ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.56 exec()

TODO: Undocumented.

```
Example :  
exec ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.57 MakeBootDisk()

TODO: Undocumented.

```
Example :  
MakeBootDisk ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.58 MakeScriptDisk()

TODO: Undocumented.

```
Example :  
MakeScriptDisk ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.59 Printf()

TODO: Undocumented.

```
Example :  
Printf ( )
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.60 LoadScript()

TODO: Undocumented.

```
Example :  
LoadScript ( )
```

Note: needs prior call to the System.Create() function to activate.



### 0.6.61 UnLoadScript()

TODO: Undocumented.

```
Example :  
UnLoadScript ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.62 GetBuildDate()

TODO: Undocumented.

```
Example :  
GetBuildDate ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.63 GetBuildTime()

TODO: Undocumented.

```
Example :  
GetBuildTime ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.64 GetFirmwareVersion()

TODO: Undocumented.

```
Example :  
GetFirmwareVersion ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.65 CheckSumAll()

TODO: Undocumented.

```
Example :  
CheckSumAll ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.66 MemoryChecker()

TODO: Undocumented.

```
Example :  
MemoryChecker ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.67 VerifyByte()

TODO: Undocumented.

```
Example :  
VerifyByte ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.68 StartWDT()

TODO: Undocumented.

```
Example :  
StartWDT ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.69 StopWDT()

TODO: Undocumented.

```
Example :  
StopWDT ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.70 EraseLogSector()

TODO: Undocumented.

```
Example :  
EraseLogSector ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.71 GetLogToFile()

TODO: Undocumented.

```
Example :  
GetLogToFile ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.72 AdditionAgentRAM()

TODO: Undocumented.

```
Example :  
AdditionAgentRAM ()
```

Note: needs prior call to the System.Create() function to activate.

### 0.6.73 System\_delet()

TODO: Undocumented.

Example :  
System\_delet ( )

Note: needs prior call to the System.Create() function to activate.

## 0.7 UI.CreatePublic()

Example :  
UI.CreatePublic ( )

Allows the use of the following function:

### 0.7.1 SetScriptMode()

TODO: Undocumented.

Example :  
SetScriptMode ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.2 UIFS\_StopPostingUIEvent()

TODO: Undocumented.

Example :  
UIFS\_StopPostingUIEvent ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.3 UIFS\_RestartPostingUIEvent()

TODO: Undocumented.

Example :  
UIFS\_RestartPostingUIEvent ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.4 UIFS\_SetCaptureModeToP()

TODO: Undocumented.

Example :  
UIFS\_SetCaptureModeToP ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.5 UIFS\_SetCaptureModeToTv()

TODO: Undocumented.

Example :  
UIFS\_SetCaptureModeToTv ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.6 UIFS\_SetCaptureModeToM()

TODO: Undocumented.

Example :  
UIFS\_SetCaptureModeToM ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.7 UIFS\_SetCaptureModeToMacro()

TODO: Undocumented.

Example :  
UIFS\_SetCaptureModeToMacro ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.8 UIFS\_SetCaptureModeToISO3200()

TODO: Undocumented.

Example :  
UIFS\_SetCaptureModeToISO3200 ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.9 UIFS\_Capture()

TODO: Undocumented.

Example :  
UIFS\_Capture ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.10 UIFS\_CaptureNoneStop()

TODO: Undocumented.

Example :  
UIFS\_CaptureNoneStop ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.11 UIFS\_StartMovieRecord()

TODO: Undocumented.

Example :  
UIFS\_StartMovieRecord ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.12 UIFS\_StopMovieRecord()

TODO: Undocumented.

Example :  
UIFS\_StopMovieRecord ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.13 UIFS\_OpenPopupStrobe()

TODO: Undocumented.

Example :  
UIFS\_OpenPopupStrobe ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.14 UIFS\_ClosePopupStrobe()

TODO: Undocumented.

Example :  
UIFS\_ClosePopupStrobe ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.15 UIFS\_MountExtFlash()

TODO: Undocumented.

Example :  
UIFS\_MountExtFlash ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.16 UIFS\_UnmountExtFlash()

TODO: Undocumented.

Example :  
UIFS\_UnmountExtFlash ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.17 UIFS\_PressTeleButton()

TODO: Undocumented.

Example :  
UIFS\_PressTeleButton ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.18 UIFS\_UnpressTeleButton()

TODO: Undocumented.

Example :  
UIFS\_UnpressTeleButton ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.19 UIFS\_PressWideButton()

TODO: Undocumented.

Example :  
UIFS\_PressWideButton ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.20 UIFS\_UnpressWideButton()

TODO: Undocumented.

Example :  
UIFS\_UnpressWideButton ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.21 UIFS\_ConnectVideo()

TODO: Undocumented.

Example :  
UIFS\_ConnectVideo ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.22 UIFS\_DisconnectVideo()

TODO: Undocumented.

Example :  
UIFS\_DisconnectVideo ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.23 UIFS\_MoveZoomTo()

TODO: Undocumented.

Example :  
UIFS\_MoveZoomTo ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.24 UIFS\_SetDialStillRec()

TODO: Undocumented.

Example :  
UIFS\_SetDialStillRec ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.25 UIFS\_SetDialMovieRec()

TODO: Undocumented.

Example :  
UIFS\_SetDialMovieRec ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.26 UIFS\_SetDialPlay()

TODO: Undocumented.

Example :  
UIFS\_SetDialPlay ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.27 UIFS\_StartClockMode()

TODO: Undocumented.

Example :  
UIFS\_StartClockMode ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.28 StartClockMode()

TODO: Undocumented.

Example :  
StartClockMode ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.29 UIFS\_EndClockMode()

TODO: Undocumented.

```
Example :  
UIFS_EndClockMode ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.30 EndClockMode()

TODO: Undocumented.

```
Example :  
EndClockMode ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.31 UIFS\_WriteFirmInfoToFile()

TODO: Undocumented.

```
Example :  
UIFS_WriteFirmInfoToFile ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.32 UIFS\_GetMovieRecoadableNumber()

TODO: Undocumented.

```
Example :  
UIFS_GetMovieRecoadableNumber ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.33 UIFS\_GetStillShotableNumber()

TODO: Undocumented.

```
Example :  
UIFS_GetStillShotableNumber ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.34 UIFS\_SetCradleSetting()

TODO: Undocumented.

```
Example :  
UIFS_SetCradleSetting ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.



### 0.7.35 UiEvtnt\_StartDisguiseCradleStatus()

TODO: Undocumented.

Example :  
UiEvtnt\_StartDisguiseCradleStatus ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.36 PTM\_RestoreUIProperty()

TODO: Undocumented.

Example :  
PTM\_RestoreUIProperty ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.37 PTM\_AllResetToFactorySetting()

TODO: Undocumented.

Example :  
PTM\_AllResetToFactorySetting ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.38 PTM\_AllReset()

TODO: Undocumented.

Example :  
PTM\_AllReset ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.39 PTM\_GetWorkingCaptureMode()

TODO: Undocumented.

Example :  
PTM\_GetWorkingCaptureMode ()

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.40 PTM\_SetCurrentCaptureMode()

TODO: Undocumented.

Example :  
PTM\_SetCurrentCaptureMode ()

Note: needs prior call to the UI.CreatePublic() function to activate.

#### 0.7.41 PTM\_SetCurrentItem()

TODO: Undocumented.

```
Example :  
PTM_SetCurrentItem ( )
```

Note: needs prior call to the UI.CreatePublic() function to activate.

#### 0.7.42 PTM\_GetCurrentItem()

TODO: Undocumented.

```
Example :  
PTM_GetCurrentItem ( )
```

Note: needs prior call to the UI.CreatePublic() function to activate.

#### 0.7.43 PTM\_NextItem()

TODO: Undocumented.

```
Example :  
PTM_NextItem ( )
```

Note: needs prior call to the UI.CreatePublic() function to activate.

#### 0.7.44 PTM\_PrevItem()

TODO: Undocumented.

```
Example :  
PTM_PrevItem ( )
```

Note: needs prior call to the UI.CreatePublic() function to activate.

#### 0.7.45 PTM\_BackupUIProperty()

TODO: Undocumented.

```
Example :  
PTM_BackupUIProperty ( )
```

Note: needs prior call to the UI.CreatePublic() function to activate.

#### 0.7.46 PTM\_SetProprietyEnable()

TODO: Undocumented.

```
Example :  
PTM_SetProprietyEnable ( )
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.47 PTM\_IsEnableItem()

TODO: Undocumented.

```
Example :  
PTM_IsEnableItem ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.48 CreateController()

TODO: Undocumented.

```
Example :  
CreateController ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.49 DeleteController()

TODO: Undocumented.

```
Example :  
DeleteController ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.50 MoveControllerToTopOfZOrder()

TODO: Undocumented.

```
Example :  
MoveControllerToTopOfZOrder ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.51 GetSelfControllerHandle()

TODO: Undocumented.

```
Example :  
GetSelfControllerHandle ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.52 SetCurrentCaptureModeType()

TODO: Undocumented.

```
Example :  
SetCurrentCaptureModeType ()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.53 GetCurrentCaptureModeType()

TODO: Undocumented.

```
Example :  
GetCurrentCaptureModeType()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.54 ExecuteResetFactoryWithRomWrite()

TODO: Undocumented.

```
Example :  
ExecuteResetFactoryWithRomWrite()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.55 StartGUISystem()

TODO: Undocumented.

```
Example :  
StartGUISystem()
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### 0.7.56 LCDMsg\_Create, LCDMsg\_SetStr, LCDMsg\_Move, LCDMsg\_ChangeColor

LCD message managment functions. These functions must be registered with a call to UI.CreatePublic()

```
Usage :  
  
var=LCDMsg_Create()  
LCDMsg_SetStr(var,STRING)  
LCDMsg_Move(var,Xpos,Ypos) (pixel coordinates)  
LCDMsg_ChangeColor(var,COLOR)  
COLOR varies with model. Ex. in G10:  
  
0=black , 1=gray , 3=white , 5=green , >5=red  
  
Example :  
  
UI.CreatePublic()  
a=LCDMsg_Create()  
LCDMsg_SetStr(a,"HELLO_WORLD")  
LCDMsg_Move(d,10,30)
```

Note: needs prior call to the UI.CreatePublic() function to activate.

### **0.7.57 LCDMsg\_Delete()**

TODO: Undocumented.

Example :  
LCDMsg\_Delete ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### **0.7.58 LCDMsg\_SwDisp()**

TODO: Undocumented.

Example :  
LCDMsg\_SwDisp ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

### **0.7.59 LCDMsg\_SetNum()**

TODO: Undocumented.

Example :  
LCDMsg\_SetNum ( )

Note: needs prior call to the UI.CreatePublic() function to activate.

## **0.8 UI.Create()**

Example :  
UI.Create ( )

Allows the use of the following function:

### **0.8.1 UI\_ShowStateOfRecMode()**

TODO: Undocumented.

Example :  
UI\_ShowStateOfRecMode ( )

Note: needs prior call to the UI.Create() function to activate.

### **0.8.2 IsControlEventsActive()**

TODO: Undocumented.

Example :  
IsControlEventsActive ( )

Note: needs prior call to the UI.Create() function to activate.

### 0.8.3 GetCurrentCaptureModeType()

TODO: Undocumented.

Example :  
GetCurrentCaptureModeType()

Note: needs prior call to the UI.Create() function to activate.

### 0.8.4 FmtMenu\_ExecuteQuickFormat()

TODO: Undocumented.

Example :  
FmtMenu\_ExecuteQuickFormat()

Note: needs prior call to the UI.Create() function to activate.

## 0.9 SS.Create()

Example :  
SS.Create()

Allows the use of the following function:

### 0.9.1 PT\_CompletePreCapt()

TODO: Undocumented.

Example :  
PT\_CompletePreCapt()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.2 PT\_RecreviewAvailable()

TODO: Undocumented.

Example :  
PT\_RecreviewAvailable()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.3 PT\_NextShootAvailable()

TODO: Undocumented.

Example :  
PT\_NextShootAvailable()

Note: needs prior call to the SS.Create() function to activate.

#### 0.9.4 PT\_CompleteStopZoom()

TODO: Undocumented.

Example :  
PT\_CompleteStopZoom ( )

Note: needs prior call to the SS.Create() function to activate.

#### 0.9.5 PT\_CompleteStopDigZoom()

TODO: Undocumented.

Example :  
PT\_CompleteStopDigZoom ( )

Note: needs prior call to the SS.Create() function to activate.

#### 0.9.6 PT\_CompleteStoreLens()

TODO: Undocumented.

Example :  
PT\_CompleteStoreLens ( )

Note: needs prior call to the SS.Create() function to activate.

#### 0.9.7 PT\_MovieRecordStopped()

TODO: Undocumented.

Example :  
PT\_MovieRecordStopped ( )

Note: needs prior call to the SS.Create() function to activate.

#### 0.9.8 PT\_CompleteCaptModeChange()

TODO: Undocumented.

Example :  
PT\_CompleteCaptModeChange ( )

Note: needs prior call to the SS.Create() function to activate.

#### 0.9.9 PT\_CompleteSynchroWrite()

TODO: Undocumented.

Example :  
PT\_CompleteSynchroWrite ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.10 PT\_CompleteCharge()

TODO: Undocumented.

Example :  
PT\_CompleteCharge ()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.11 PT\_CompleteFileWrite()

TODO: Undocumented.

Example :  
PT\_CompleteFileWrite ()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.12 PT\_BatLvChange\_PreWeak()

TODO: Undocumented.

Example :  
PT\_BatLvChange\_PreWeak ()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.13 PT\_BatLvChange\_Weak()

TODO: Undocumented.

Example :  
PT\_BatLvChange\_Weak ()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.14 PT\_BatLvChange\_Low()

TODO: Undocumented.

Example :  
PT\_BatLvChange\_Low ()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.15 PT\_BatLvChange\_SysLow()

TODO: Undocumented.

Example :  
PT\_BatLvChange\_SysLow ()

Note: needs prior call to the SS.Create() function to activate.



### 0.9.16 PT\_StartBatteryTest()

TODO: Undocumented.

```
Example :  
PT_StartBatteryTest ()
```

Note: needs prior call to the SS.Create() function to activate.

### 0.9.17 PT\_FinishBatteryTest()

TODO: Undocumented.

```
Example :  
PT_FinishBatteryTest ()
```

Note: needs prior call to the SS.Create() function to activate.

### 0.9.18 PT\_GetBatteryLevel()

TODO: Undocumented.

```
Example :  
PT_GetBatteryLevel ()
```

Note: needs prior call to the SS.Create() function to activate.

### 0.9.19 PT\_GetPreWeakBatLv()

TODO: Undocumented.

```
Example :  
PT_GetPreWeakBatLv ()
```

Note: needs prior call to the SS.Create() function to activate.

### 0.9.20 PT\_GetWeakBatLv()

TODO: Undocumented.

```
Example :  
PT_GetWeakBatLv ()
```

Note: needs prior call to the SS.Create() function to activate.

### 0.9.21 PT\_GetLowBatLv()

TODO: Undocumented.

```
Example :  
PT_GetLowBatLv ()
```

Note: needs prior call to the SS.Create() function to activate.

### 0.9.22 PT\_GetSysLowBatLv()

TODO: Undocumented.

Example :  
PT\_GetSysLowBatLv ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.23 PT\_EraseAllFile()

TODO: Undocumented.

Example :  
PT\_EraseAllFile ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.24 PT\_mod()

TODO: Undocumented.

Example :  
PT\_mod ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.25 PT\_GetSystemTime()

TODO: Undocumented.

Example :  
PT\_GetSystemTime ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.26 PT\_SetPropertyCaseInt()

TODO: Undocumented.

Example :  
PT\_SetPropertyCaseInt ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.27 PT\_GetPropertyCaseInt()

TODO: Undocumented.

Example :  
PT\_GetPropertyCaseInt ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.28 PT\_GetLocalDateAndTimeString()

TODO: Undocumented.

Example :  
PT\_GetLocalDateAndTimeString()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.29 PT\_PlaySound()

TODO: Undocumented.

Example :  
PT\_PlaySound()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.30 PT\_LCD\_BkColorDef()

TODO: Undocumented.

Example :  
PT\_LCD\_BkColorDef()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.31 PT\_MoveOpticalZoomToTele()

TODO: Undocumented.

Example :  
PT\_MoveOpticalZoomToTele()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.32 PT\_MoveOpticalZoomToWide()

TODO: Undocumented.

Example :  
PT\_MoveOpticalZoomToWide()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.33 PT\_MoveOpticalZoomAt()

TODO: Undocumented.

Example :  
PT\_MoveOpticalZoomAt()

Note: needs prior call to the SS.Create() function to activate.

### 0.9.34 PT\_MoveDigitalZoomToTele()

TODO: Undocumented.

Example :  
PT\_MoveDigitalZoomToTele ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.35 PT\_MoveDigitalZoomToWide()

TODO: Undocumented.

Example :  
PT\_MoveDigitalZoomToWide ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.36 PT\_MoveDigitalZoomAt()

TODO: Undocumented.

Example :  
PT\_MoveDigitalZoomAt ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.37 PT\_ChangeZoomSpeed()

TODO: Undocumented.

Example :  
PT\_ChangeZoomSpeed ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.38 PT\_DoAFLock()

TODO: Undocumented.

Example :  
PT\_DoAFLock ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.39 PT\_UnlockAF()

TODO: Undocumented.

Example :  
PT\_UnlockAF ( )

Note: needs prior call to the SS.Create() function to activate.

#### **0.9.40 PT\_DoAELock()**

TODO: Undocumented.

Example :  
PT\_DoAELock ( )

Note: needs prior call to the SS.Create() function to activate.

#### **0.9.41 PT\_UnlockAE()**

TODO: Undocumented.

Example :  
PT\_UnlockAE ( )

Note: needs prior call to the SS.Create() function to activate.

#### **0.9.42 PT\_MFOn()**

TODO: Undocumented.

Example :  
PT\_MFOn ( )

Note: needs prior call to the SS.Create() function to activate.

#### **0.9.43 PT\_MFOff()**

TODO: Undocumented.

Example :  
PT\_MFOff ( )

Note: needs prior call to the SS.Create() function to activate.

#### **0.9.44 NR\_SetDarkSubType()**

TODO: Undocumented.

Example :  
NR\_SetDarkSubType ( )

Note: needs prior call to the SS.Create() function to activate.

#### **0.9.45 NR\_SetDefectCorrectType()**

TODO: Undocumented.

Example :  
NR\_SetDefectCorrectType ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.46 NR\_GetDarkSubType()

TODO: Undocumented.

Example :  
NR\_GetDarkSubType ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.47 NR\_GetDefectCorrectType()

TODO: Undocumented.

Example :  
NR\_GetDefectCorrectType ( )

Note: needs prior call to the SS.Create() function to activate.

### 0.9.48 NR\_SetLotasPonyType()

TODO: Undocumented.

Example :  
NR\_SetLotasPonyType ( )

Note: needs prior call to the SS.Create() function to activate.

## 0.10 RefreshUSBMode()

Example :  
RefreshUSBMode ( )

Allows the use of the following function:

### 0.10.1 COMFACHK\_StartService()

TODO: Undocumented.

Example :  
COMFACHK\_StartService ( )

Note: needs prior call to the RefreshUSBMode() function to activate.

### 0.10.2 COMFACHK\_StopService()

TODO: Undocumented.

Example :  
COMFACHK\_StopService ( )

Note: needs prior call to the RefreshUSBMode() function to activate.

### 0.10.3 COMFACHK\_StartSendData()

TODO: Undocumented.

Example :  
COMFACHK\_StartSendData ( )

Note: needs prior call to the RefreshUSBMode() function to activate.

### 0.10.4 COMFACHK\_StartSendLargeData()

TODO: Undocumented.

Example :  
COMFACHK\_StartSendLargeData ( )

Note: needs prior call to the RefreshUSBMode() function to activate.

### 0.10.5 COMFACHK\_GetTransferTime()

TODO: Undocumented.

Example :  
COMFACHK\_GetTransferTime ( )

Note: needs prior call to the RefreshUSBMode() function to activate.

### 0.10.6 COMFACHK\_SetSendDataSize()

TODO: Undocumented.

Example :  
COMFACHK\_SetSendDataSize ( )

Note: needs prior call to the RefreshUSBMode() function to activate.

## 0.11 Mecha.Create()

Example :  
Mecha.Create ( )

Allows the use of the following function:

### 0.11.1 MechaReset()

TODO: Undocumented.

Example :  
MechaReset ( )

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.2 MechaTerminate()

TODO: Undocumented.

Example :  
MechaTerminate ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.3 ShowMechaMacro()

TODO: Undocumented.

Example :  
ShowMechaMacro ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.4 MoveZoomActuator()

TODO: Undocumented.

Example :  
MoveZoomActuator ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.5 SetZoomActuatorSpeedPPS()

TODO: Undocumented.

Example :  
SetZoomActuatorSpeedPPS ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.6 GetZoomActuatorCurrentPosition()

TODO: Undocumented.

Example :  
GetZoomActuatorCurrentPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.7 GetZoomActuatorSpeedPPS()

TODO: Undocumented.

Example :  
GetZoomActuatorSpeedPPS ()

Note: needs prior call to the Mecha.Create() function to activate.



### 0.11.8 IsZoomActuatorResetSensorPlusSide()

TODO: Undocumented.

Example :  
IsZoomActuatorResetSensorPlusSide ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.9 MoveCZToPoint()

TODO: Undocumented.

Example :  
MoveCZToPoint ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.10 MoveCZToWide()

TODO: Undocumented.

Example :  
MoveCZToWide ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.11 MoveCZToTele()

TODO: Undocumented.

Example :  
MoveCZToTele ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.12 ResetFocusLens()

TODO: Undocumented.

Example :  
ResetFocusLens ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.13 EscapeFocusLens()

TODO: Undocumented.

Example :  
EscapeFocusLens ()

Note: needs prior call to the Mecha.Create() function to activate.

#### **0.11.14 MoveFocusLensToTerminate()**

TODO: Undocumented.

Example :  
`MoveFocusLensToTerminate()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.15 MoveFocusLensWithDistance()**

TODO: Undocumented.

Example :  
`MoveFocusLensWithDistance()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.16 MoveFocusLensWithPosition()**

TODO: Undocumented.

Example :  
`MoveFocusLensWithPosition()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.17 MoveFocusLensWithPositionWithoutBacklas()**

TODO: Undocumented.

Example :  
`MoveFocusLensWithPositionWithoutBacklas()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.18 MoveFocusActuator()**

TODO: Undocumented.

Example :  
`MoveFocusActuator()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.19 SetFocusLensSpeed()**

TODO: Undocumented.

Example :  
`SetFocusLensSpeed()`

Note: needs prior call to the `Mecha.Create()` function to activate.

### 0.11.20 SetFocusLensSpeedTable()

TODO: Undocumented.

Example :  
SetFocusLensSpeedTable ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.21 SetFocusLensDefaultPullOutTable()

TODO: Undocumented.

Example :  
SetFocusLensDefaultPullOutTable ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.22 SetFocusLensCondition()

TODO: Undocumented.

Example :  
SetFocusLensCondition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.23 ShowFocusLensCurrentSpeedTable()

TODO: Undocumented.

Example :  
ShowFocusLensCurrentSpeedTable ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.24 SetFocusLensMaxSpeedLimit()

TODO: Undocumented.

Example :  
SetFocusLensMaxSpeedLimit ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.25 CancelFocusLensMaxSpeedLimit()

TODO: Undocumented.

Example :  
CancelFocusLensMaxSpeedLimit ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.26 EnableFocusLens()

TODO: Undocumented.

```
Example :  
EnableFocusLens ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.27 DisableFocusLens()

TODO: Undocumented.

```
Example :  
DisableFocusLens ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.28 EnableFocusLensGainLockWithVoltage()

TODO: Undocumented.

```
Example :  
EnableFocusLensGainLockWithVoltage ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.29 DisableFocusLensGainLock()

TODO: Undocumented.

```
Example :  
DisableFocusLensGainLock ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.30 EnableFocusLensWaveLock()

TODO: Undocumented.

```
Example :  
EnableFocusLensWaveLock ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.31 DisableFocusLensWaveLock()

TODO: Undocumented.

```
Example :  
DisableFocusLensWaveLock ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.32 GetFocusLensCurrentPosition()

TODO: Undocumented.

Example :  
GetFocusLensCurrentPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.33 GetFocusLensResetPosition()

TODO: Undocumented.

Example :  
GetFocusLensResetPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.34 GetFocusLensResetDefaultPosition()

TODO: Undocumented.

Example :  
GetFocusLensResetDefaultPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.35 GetFocusLensSubjectDistance()

TODO: Undocumented.

Example :  
GetFocusLensSubjectDistance ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.36 GetFocusLensSubjectDistanceNumber()

TODO: Undocumented.

Example :  
GetFocusLensSubjectDistanceNumber ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.37 GetFocusLensPositionRatio()

TODO: Undocumented.

Example :  
GetFocusLensPositionRatio ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.38 GetFocusLensLoadSubjectDistance()

TODO: Undocumented.

Example :  
GetFocusLensLoadSubjectDistance ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.39 ChangeFocusDistanceToPosition()

TODO: Undocumented.

Example :  
ChangeFocusDistanceToPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.40 GetFocusLensLoadCamTable()

TODO: Undocumented.

Example :  
GetFocusLensLoadCamTable ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.41 GetFocusLensDriveVoltage()

TODO: Undocumented.

Example :  
GetFocusLensDriveVoltage ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.42 SetFocusLensDriveVoltage()

TODO: Undocumented.

Example :  
SetFocusLensDriveVoltage ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.43 GetFocusLensSettingWaitVoltage()

TODO: Undocumented.

Example :  
GetFocusLensSettingWaitVoltage ()

Note: needs prior call to the Mecha.Create() function to activate.

#### 0.11.44 SetFocusLensSettingWaitVoltage()

TODO: Undocumented.

Example :  
SetFocusLensSettingWaitVoltage ()

Note: needs prior call to the Mecha.Create() function to activate.

#### 0.11.45 GetFocusLensHoldVoltage()

TODO: Undocumented.

Example :  
GetFocusLensHoldVoltage ()

Note: needs prior call to the Mecha.Create() function to activate.

#### 0.11.46 SetFocusLensHoldVoltage()

TODO: Undocumented.

Example :  
SetFocusLensHoldVoltage ()

Note: needs prior call to the Mecha.Create() function to activate.

#### 0.11.47 GetFocusLensResetVoltage()

TODO: Undocumented.

Example :  
GetFocusLensResetVoltage ()

Note: needs prior call to the Mecha.Create() function to activate.

#### 0.11.48 GetFocusLensMoveMaxPosition()

TODO: Undocumented.

Example :  
GetFocusLensMoveMaxPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

#### 0.11.49 GetFocusLensMoveMinPosition()

TODO: Undocumented.

Example :  
GetFocusLensMoveMinPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.50 ResetIris()

TODO: Undocumented.

```
Example :  
ResetIris ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.51 MoveIrisToTerminatePosition()

TODO: Undocumented.

```
Example :  
MoveIrisToTerminatePosition ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.52 MoveIrisWithAv()

TODO: Undocumented.

```
Example :  
MoveIrisWithAv ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.53 MoveIrisWithAvWithoutBacklash()

TODO: Undocumented.

```
Example :  
MoveIrisWithAvWithoutBacklash ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.54 GetIrisAv()

TODO: Undocumented.

```
Example :  
GetIrisAv ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.55 MoveLensToFirstPoint()

TODO: Undocumented.

```
Example :  
MoveLensToFirstPoint ()
```

Note: needs prior call to the Mecha.Create() function to activate.



### 0.11.56 MoveLensToTerminatePoint()

TODO: Undocumented.

```
Example :  
MoveLensToTerminatePoint ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.57 IsLensOutside()

TODO: Undocumented.

```
Example :  
IsLensOutside ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.58 GetLensErrorStatus()

TODO: Undocumented.

```
Example :  
GetLensErrorStatus ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.59 EnableMechaCircuit()

TODO: Undocumented.

```
Example :  
EnableMechaCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.60 DisableMechaCircuit()

TODO: Undocumented.

```
Example :  
DisableMechaCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.61 EnableFocusPiCircuit()

TODO: Undocumented.

```
Example :  
EnableFocusPiCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.62 DisableFocusPiCircuit()

TODO: Undocumented.

```
Example :  
DisableFocusPiCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.63 GetFocusPiSensorLevel()

TODO: Undocumented.

```
Example :  
GetFocusPiSensorLevel ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.64 EnableZoomPiCircuit()

TODO: Undocumented.

```
Example :  
EnableZoomPiCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.65 DisableZoomPiCircuit()

TODO: Undocumented.

```
Example :  
DisableZoomPiCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.66 GetZoomPiSensorLevel()

TODO: Undocumented.

```
Example :  
GetZoomPiSensorLevel ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.67 EnableZoomEncoderCircuit()

TODO: Undocumented.

```
Example :  
EnableZoomEncoderCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.68 DisableZoomEncoderCircuit()

TODO: Undocumented.

```
Example :  
DisableZoomEncoderCircuit ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.69 SendMechaCircuitData()

TODO: Undocumented.

```
Example :  
SendMechaCircuitData ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.70 ReceiveMechaCircuitDataAll()

TODO: Undocumented.

```
Example :  
ReceiveMechaCircuitDataAll ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.71 CloseMechaShutterWithTiming()

TODO: Undocumented.

```
Example :  
CloseMechaShutterWithTiming ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.72 SetMechaShutterWaitTimeSetting()

TODO: Undocumented.

```
Example :  
SetMechaShutterWaitTimeSetting ()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.73 GetMechaShutterStatus()

TODO: Undocumented.

```
Example :  
GetMechaShutterStatus ()
```

Note: needs prior call to the Mecha.Create() function to activate.

#### **0.11.74 CloseMechaShutter()**

TODO: Undocumented.

Example :  
`CloseMechaShutter()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.75 OpenMechaShutter()**

TODO: Undocumented.

Example :  
`OpenMechaShutter()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.76 SetMechaShutterCloseDacSetting()**

TODO: Undocumented.

Example :  
`SetMechaShutterCloseDacSetting()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.77 SetMechaShutterOpenDacSetting()**

TODO: Undocumented.

Example :  
`SetMechaShutterOpenDacSetting()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.78 SetNdDacSetting()**

TODO: Undocumented.

Example :  
`SetNdDacSetting()`

Note: needs prior call to the `Mecha.Create()` function to activate.

#### **0.11.79 TurnOnNdFilter()**

TODO: Undocumented.

Example :  
`TurnOnNdFilter()`

Note: needs prior call to the `Mecha.Create()` function to activate.

### 0.11.80 TurnOffNdFilter()

TODO: Undocumented.

Example :  
TurnOffNdFilter ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.81 ResetZoomLens()

TODO: Undocumented.

Example :  
ResetZoomLens ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.82 ResetZoomLensToFirst()

TODO: Undocumented.

Example :  
ResetZoomLensToFirst ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.83 ResetZoomLensToTermiante()

TODO: Undocumented.

Example :  
ResetZoomLensToTermiante ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.84 MoveZoomLensWithPoint()

TODO: Undocumented.

Example :  
MoveZoomLensWithPoint ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.85 MoveZoomLensWithPosition()

TODO: Undocumented.

Example :  
MoveZoomLensWithPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.86 MoveZoomLensToTerminatePosition()

TODO: Undocumented.

Example :  
MoveZoomLensToTerminatePosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.87 MoveZoomLensToMechaEdge()

TODO: Undocumented.

Example :  
MoveZoomLensToMechaEdge ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.88 SetZoomLensSpeedMode()

TODO: Undocumented.

Example :  
SetZoomLensSpeedMode ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.89 GetZoomLensCurrentPoint()

TODO: Undocumented.

Example :  
GetZoomLensCurrentPoint ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.90 GetZoomLensCurrentPosition()

TODO: Undocumented.

Example :  
GetZoomLensCurrentPosition ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.91 GetZoomLensTelePoint()

TODO: Undocumented.

Example :  
GetZoomLensTelePoint ()

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.92 GetZoomLensMechaEdgePosition()

TODO: Undocumented.

```
Example :  
GetZoomLensMechaEdgePosition()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.93 EnableZoomLensEncoderPowerControl()

TODO: Undocumented.

```
Example :  
EnableZoomLensEncoderPowerControl()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.94 DisableZoomLensEncoderPowerControl()

TODO: Undocumented.

```
Example :  
DisableZoomLensEncoderPowerControl()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.95 MoveDCMotorCW()

TODO: Undocumented.

```
Example :  
MoveDCMotorCW()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.96 MoveDCMotorCCW()

TODO: Undocumented.

```
Example :  
MoveDCMotorCCW()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.97 SetPMByGpio()

TODO: Undocumented.

```
Example :  
SetPMByGpio()
```

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.98 ClearPMBYGpio()

TODO: Undocumented.

Example :  
ClearPMBYGpio ( )

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.99 ClearPMBYFs()

TODO: Undocumented.

Example :  
ClearPMBYFs ( )

Note: needs prior call to the Mecha.Create() function to activate.

### 0.11.100 SetDCMotorWaitTime()

TODO: Undocumented.

Example :  
SetDCMotorWaitTime ( )

Note: needs prior call to the Mecha.Create() function to activate.

## 0.12 Capture.Create()

Example :  
Capture . Create ( )

Allows the use of the following function:

### 0.12.1 ActivateImager()

TODO: Undocumented.

Example :  
ActivateImager ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.2 ActivateImagerXOne()

TODO: Undocumented.

Example :  
ActivateImagerXOne ( )

Note: needs prior call to the Capture.Create() function to activate.



### 0.12.3 QuietImager()

TODO: Undocumented.

Example :  
QuietImager ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.4 CancelImager()

TODO: Undocumented.

Example :  
CancelImager ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.5 ChangeImagerToWholeParallel()

TODO: Undocumented.

Example :  
ChangeImagerToWholeParallel ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.6 ChangeImagerToWholeParallelBP()

TODO: Undocumented.

Example :  
ChangeImagerToWholeParallelBP ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.7 ChangeImagerToWideDraft()

TODO: Undocumented.

Example :  
ChangeImagerToWideDraft ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.8 ChangeImagerToFocusJet()

TODO: Undocumented.

Example :  
ChangeImagerToFocusJet ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.9 **ChangeImagerToMangoPudding()**

TODO: Undocumented.

Example :  
`ChangeImagerToMangoPudding ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### 0.12.10 **ChangeImagerToSuperWideDraft()**

TODO: Undocumented.

Example :  
`ChangeImagerToSuperWideDraft ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### 0.12.11 **ChangeImagerToJetDraft()**

TODO: Undocumented.

Example :  
`ChangeImagerToJetDraft ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### 0.12.12 **ChangeImagerToJumboDraft()**

TODO: Undocumented.

Example :  
`ChangeImagerToJumboDraft ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### 0.12.13 **ChangeImagerToHoneyFlash()**

TODO: Undocumented.

Example :  
`ChangeImagerToHoneyFlash ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### 0.12.14 **ChangeImagerToMillefeAdjust()**

TODO: Undocumented.

Example :  
`ChangeImagerToMillefeAdjust ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.15    `ChangeImagerToOITA_XAVIER()`**

TODO: Undocumented.

Example :  
`ChangeImagerToOITA_XAVIER()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.16    `ChangeImagerToAlternateDraft()`**

TODO: Undocumented.

Example :  
`ChangeImagerToAlternateDraft()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.17    `ChangeImagerToDigiconMode()`**

TODO: Undocumented.

Example :  
`ChangeImagerToDigiconMode()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.18    `ChangeImagerToUltraGhostQ()`**

TODO: Undocumented.

Example :  
`ChangeImagerToUltraGhostQ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.19    `ChangeImagerToMontblancWhole()`**

TODO: Undocumented.

Example :  
`ChangeImagerToMontblancWhole()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.20    `ChangeImagerToMontblancMillefe()`**

TODO: Undocumented.

Example :  
`ChangeImagerToMontblancMillefe()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.21    ChangeGradeTable()**

TODO: Undocumented.

Example :  
ChangeGradeTable ( )

Note: needs prior call to the Capture.Create() function to activate.

### **0.12.22    PointDefDetect()**

TODO: Undocumented.

Example :  
PointDefDetect ( )

Note: needs prior call to the Capture.Create() function to activate.

### **0.12.23    PointKizuCheck()**

TODO: Undocumented.

Example :  
PointKizuCheck ( )

Note: needs prior call to the Capture.Create() function to activate.

### **0.12.24    GetDefectCount()**

TODO: Undocumented.

Example :  
GetDefectCount ( )

Note: needs prior call to the Capture.Create() function to activate.

### **0.12.25    LineDefDetect()**

TODO: Undocumented.

Example :  
LineDefDetect ( )

Note: needs prior call to the Capture.Create() function to activate.

### **0.12.26    LineKizuCheck()**

TODO: Undocumented.

Example :  
LineKizuCheck ( )

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.27 SetMontblancVSize()

TODO: Undocumented.

```
Example :  
SetMontblancVSize ()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.28 GetMontblancVSize()

TODO: Undocumented.

```
Example :  
GetMontblancVSize ()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.29 EF.StartEFCharge()

TODO: Undocumented.

```
Example :  
EF.StartEFCharge ()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.30 EF.StopEFCharge()

TODO: Undocumented.

```
Example :  
EF.StopEFCharge ()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.31 EF.SetEFChargeTimeOut()

TODO: Undocumented.

```
Example :  
EF.SetEFChargeTimeOut ()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.32 EF.StartInternalPreFlash()

TODO: Undocumented.

```
Example :  
EF.StartInternalPreFlash ()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.33 EF.StartInternalMainFlash()

TODO: Undocumented.

```
Example :  
EF.StartInternalMainFlash()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.34 EF.SetMainFlashTime()

TODO: Undocumented.

```
Example :  
EF.SetMainFlashTime()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.35 EF.IsChargeFull()

TODO: Undocumented.

```
Example :  
EF.IsChargeFull()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.36 EF.AdjPreFlash()

TODO: Undocumented.

```
Example :  
EF.AdjPreFlash()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.37 EF.SetChargeMode()

TODO: Undocumented.

```
Example :  
EF.SetChargeMode()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.38 EF.SetFlashTime()

TODO: Undocumented.

```
Example :  
EF.SetFlashTime()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.39 ExpCtrlTool.SetExpMode()

TODO: Undocumented.

```
Example :  
ExpCtrlTool.SetExpMode()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.40 DevelopTool.DevelopTest()

TODO: Undocumented.

```
Example :  
DevelopTool.DevelopTest()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.41 LiveImageTool.StartEVF()

TODO: Undocumented.

```
Example :  
LiveImageTool.StartEVF()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.42 LiveImageTool.StartEVFFocusJet()

TODO: Undocumented.

```
Example :  
LiveImageTool.StartEVFFocusJet()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.43 LiveImageTool.StartEVFMF()

TODO: Undocumented.

```
Example :  
LiveImageTool.StartEVFMF()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.44 LiveImageTool.StartEVFMovVGA()

TODO: Undocumented.

```
Example :  
LiveImageTool.StartEVFMovVGA()
```

Note: needs prior call to the Capture.Create() function to activate.

#### **0.12.45 LiveImageTool.StartEVFMovQVGA60()**

TODO: Undocumented.

Example :  
`LiveImageTool.StartEVFMovQVGA60()`

Note: needs prior call to the `Capture.Create()` function to activate.

#### **0.12.46 LiveImageTool.StartEVFMovQVGA()**

TODO: Undocumented.

Example :  
`LiveImageTool.StartEVFMovQVGA()`

Note: needs prior call to the `Capture.Create()` function to activate.

#### **0.12.47 LiveImageTool.StartEVFMovQQVGA()**

TODO: Undocumented.

Example :  
`LiveImageTool.StartEVFMovQQVGA()`

Note: needs prior call to the `Capture.Create()` function to activate.

#### **0.12.48 LiveImageTool.StartEVFMovXGA()**

TODO: Undocumented.

Example :  
`LiveImageTool.StartEVFMovXGA()`

Note: needs prior call to the `Capture.Create()` function to activate.

#### **0.12.49 LiveImageTool.StartEVFMovHD()**

TODO: Undocumented.

Example :  
`LiveImageTool.StartEVFMovHD()`

Note: needs prior call to the `Capture.Create()` function to activate.

#### **0.12.50 LiveImageTool.StopEVF()**

TODO: Undocumented.

Example :  
`LiveImageTool.StopEVF()`

Note: needs prior call to the `Capture.Create()` function to activate.



### **0.12.51 LiveImageTool.StopMjpegMaking()**

TODO: Undocumented.

Example :  
`LiveImageTool . StopMjpegMaking ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.52 LiveImageTool.StartMjpegMaking()**

TODO: Undocumented.

Example :  
`LiveImageTool . StartMjpegMaking ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.53 LiveImageTool.DzoomTele()**

TODO: Undocumented.

Example :  
`LiveImageTool . DzoomTele ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.54 LiveImageTool.DzoomWide()**

TODO: Undocumented.

Example :  
`LiveImageTool . DzoomWide ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.55 LiveImageTool.StopDzoom()**

TODO: Undocumented.

Example :  
`LiveImageTool . StopDzoom ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### **0.12.56 LiveImageTool.Pause()**

TODO: Undocumented.

Example :  
`LiveImageTool . Pause ()`

Note: needs prior call to the `Capture.Create()` function to activate.

### 0.12.57 LiveImageTool.Resume()

TODO: Undocumented.

```
Example :  
LiveImageTool.Resume()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.58 LiveImageTool.ChangeDzoom()

TODO: Undocumented.

```
Example :  
LiveImageTool.ChangeDzoom()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.59 LiveImageTool.GetDzoomPosition()

TODO: Undocumented.

```
Example :  
LiveImageTool.GetDzoomPosition()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.60 LiveImageTool.Jump()

TODO: Undocumented.

```
Example :  
LiveImageTool.Jump()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.61 AFTool.GetEVal()

TODO: Undocumented.

```
Example :  
AFTool.GetEVal()
```

Note: needs prior call to the Capture.Create() function to activate.

### 0.12.62 E2LatOn()

TODO: Undocumented.

```
Example :  
E2LatOn()
```

Note: needs prior call to the Capture.Create() function to activate.

## 0.13 EngineDriver.Create()

Example :  
`EngineDriver.Create()`

Allows the use of the following function:

### 0.13.1 EngDrvOut()

TODO: Undocumented.

Example :  
`EngDrvOut()`

Note: needs prior call to the `EngineDriver.Create()` function to activate.

### 0.13.2 EngDrvIn()

TODO: Undocumented.

Example :  
`EngDrvIn()`

Note: needs prior call to the `EngineDriver.Create()` function to activate.

### 0.13.3 EngDrvRead()

TODO: Undocumented.

Example :  
`EngDrvRead()`

Note: needs prior call to the `EngineDriver.Create()` function to activate.

### 0.13.4 EngDrvBits()

TODO: Undocumented.

Example :  
`EngDrvBits()`

Note: needs prior call to the `EngineDriver.Create()` function to activate.

### 0.13.5 EngDrvReadDump()

TODO: Undocumented.

Example :  
`EngDrvReadDump()`

Note: needs prior call to the `EngineDriver.Create()` function to activate.

## 0.14 CreateLanguageMenu()

Example :  
CreateLanguageMenu ( )

Allows the use of the following function:

### 0.14.1 CreateLanguageMenu()

TODO: Undocumented.

Example :  
CreateLanguageMenu ( )

Note: needs prior call to the CreateLanguageMenu() function to activate.

### 0.14.2 DeleteLanguageMenu()

TODO: Undocumented.

Example :  
DeleteLanguageMenu ( )

Note: needs prior call to the CreateLanguageMenu() function to activate.

### 0.14.3 ShowLanguageNameList()

TODO: Undocumented.

Example :  
ShowLanguageNameList ( )

Note: needs prior call to the CreateLanguageMenu() function to activate.

### 0.14.4 SaveLanguageNameList()

TODO: Undocumented.

Example :  
SaveLanguageNameList ( )

Note: needs prior call to the CreateLanguageMenu() function to activate.

### 0.14.5 RegisterLanguageName()

TODO: Undocumented.

Example :  
RegisterLanguageName ( )

Note: needs prior call to the CreateLanguageMenu() function to activate.

## 0.15 DispDev\_EnableEventProc()

Example :  
DispDev\_EnableEventProc ( )

Allows the use of the following function:

### 0.15.1 DispCon\_ShowColorBar()

TODO: Undocumented.

Example :  
DispCon\_ShowColorBar ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.2 DispCon\_ShowFiveStep()

TODO: Undocumented.

Example :  
DispCon\_ShowFiveStep ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.3 DispCon\_ShowWhiteChart()

TODO: Undocumented.

Example :  
DispCon\_ShowWhiteChart ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.4 DispCon\_ShowBlackChart()

TODO: Undocumented.

Example :  
DispCon\_ShowBlackChart ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.5 DispCon\_ShowBitmapColorBar()

TODO: Undocumented.

Example :  
DispCon\_ShowBitmapColorBar ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.6 DispCon\_ShowCustomColorBar()

TODO: Undocumented.

Example :  
DispCon\_ShowCustomColorBar ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.7 DispCon\_SetDisplayType()

TODO: Undocumented.

Example :  
DispCon\_SetDisplayType ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.8 DispCon\_TurnOnDisplay()

TODO: Undocumented.

Example :  
DispCon\_TurnOnDisplay ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.9 DispCon\_TurnOffDisplay()

TODO: Undocumented.

Example :  
DispCon\_TurnOffDisplay ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.10 DispCon\_SetMaxBackLightBrightness()

TODO: Undocumented.

Example :  
DispCon\_SetMaxBackLightBrightness ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.11 DispCon\_SetVideoAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_SetVideoAdjParameter ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.12 DispCon\_GetVideoAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_GetVideoAdjParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.13 DispCon\_ShowVideoAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_ShowVideoAdjParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.14 DispCon\_SaveVideoAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_SaveVideoAdjParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.15 DispCon\_SetLcdGainAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_SetLcdGainAdjParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.16 DispCon\_GetLcdGainAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_GetLcdGainAdjParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.17 DispCon\_ShowLcdGainAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_ShowLcdGainAdjParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.18 DispCon\_SaveLcdGainAdjParameter()

TODO: Undocumented.

Example :  
DispCon\_SaveLcdGainAdjParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.19 LcdCon\_SetLcdBackLightBrightness()

TODO: Undocumented.

Example :  
LcdCon\_SetLcdBackLightBrightness ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.20 LcdCon\_SetLcdBackLightParameter()

TODO: Undocumented.

Example :  
LcdCon\_SetLcdBackLightParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.21 LcdCon\_GetLcdBackLightParameter()

TODO: Undocumented.

Example :  
LcdCon\_GetLcdBackLightParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.22 LcdCon\_ShowLcdBackLightParameter()

TODO: Undocumented.

Example :  
LcdCon\_ShowLcdBackLightParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.23 LcdCon\_SaveLcdBackLightParameter()

TODO: Undocumented.

Example :  
LcdCon\_SaveLcdBackLightParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.



#### **0.15.24 LcdCon\_SetLcdDriver()**

TODO: Undocumented.

Example :  
LcdCon\_SetLcdDriver ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

#### **0.15.25 LcdCon\_SetLcdAdjParameter()**

TODO: Undocumented.

Example :  
LcdCon\_SetLcdAdjParameter ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

#### **0.15.26 LcdCon\_GetLcdAdjParameter()**

TODO: Undocumented.

Example :  
LcdCon\_GetLcdAdjParameter ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

#### **0.15.27 LcdCon\_ShowLcdAdjParameter()**

TODO: Undocumented.

Example :  
LcdCon\_ShowLcdAdjParameter ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

#### **0.15.28 LcdCon\_SaveLcdAdjParameter()**

TODO: Undocumented.

Example :  
LcdCon\_SaveLcdAdjParameter ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

#### **0.15.29 LcdCon\_IsNewLcd()**

TODO: Undocumented.

Example :  
LcdCon\_IsNewLcd ( )

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.30 LcdCon\_IsNewLcdType()

TODO: Undocumented.

Example :  
LcdCon\_IsNewLcdType ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.31 LcdCon\_SetLcdParameter()

TODO: Undocumented.

Example :  
LcdCon\_SetLcdParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.32 LcdCon\_GetLcdParameter()

TODO: Undocumented.

Example :  
LcdCon\_GetLcdParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.33 LcdCon\_ShowLcdParameter()

TODO: Undocumented.

Example :  
LcdCon\_ShowLcdParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.34 LcdCon\_SaveLcdParameter()

TODO: Undocumented.

Example :  
LcdCon\_SaveLcdParameter ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.35 LcdCon\_StartLcdPeriodicalSetting()

TODO: Undocumented.

Example :  
LcdCon\_StartLcdPeriodicalSetting ()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

### 0.15.36 LcdCon\_StopLcdPeriodicalSetting()

TODO: Undocumented.

Example:  
LcdCon\_StopLcdPeriodicalSetting()

Note: needs prior call to the DispDev\_EnableEventProc() function to activate.

## 0.16 FA.Create()

Example:  
FA.Create()

Allows the use of the following function:

### 0.16.1 InitializeAdjustmentSystem()

TODO: Undocumented.

Example:  
InitializeAdjustmentSystem()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.2 InitializeAdjustmentFunction()

TODO: Undocumented.

Example:  
InitializeAdjustmentFunction()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.3 TerminateAdjustmentSystem()

TODO: Undocumented.

Example:  
TerminateAdjustmentSystem()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.4 InitializeTestRec()

TODO: Undocumented.

Example:  
InitializeTestRec()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.5 TerminateTestRec()

TODO: Undocumented.

Example :  
TerminateTestRec ()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.6 ExecuteTestRec()

TODO: Undocumented.

Example :  
ExecuteTestRec ()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.7 ExecuteTestRecCF()

TODO: Undocumented.

Example :  
ExecuteTestRecCF ()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.8 InitializeDigicon()

TODO: Undocumented.

Example :  
InitializeDigicon ()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.9 TerminateDigicon()

TODO: Undocumented.

Example :  
TerminateDigicon ()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.10 ExecuteDigicon()

TODO: Undocumented.

Example :  
ExecuteDigicon ()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.11 Initializedccd()

TODO: Undocumented.

```
Example :  
Initializedccd ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.12 Terminatedccd()

TODO: Undocumented.

```
Example :  
Terminatedccd ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.13 Executedccd()

TODO: Undocumented.

```
Example :  
Executedccd ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.14 GetdccdImage()

TODO: Undocumented.

```
Example :  
GetdccdImage ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.15 GetdccdFilterValue()

TODO: Undocumented.

```
Example :  
GetdccdFilterValue ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.16 EnableDebugLogMode()

TODO: Undocumented.

```
Example :  
EnableDebugLogMode ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.17 DisableDebugLogMode()

TODO: Undocumented.

```
Example :  
DisableDebugLogMode ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.18 SetDefaultRecParameter()

TODO: Undocumented.

```
Example :  
SetDefaultRecParameter ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.19 SetDefectRecParameter()

TODO: Undocumented.

```
Example :  
SetDefectRecParameter ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.20 SetSensitiveRecParameter()

TODO: Undocumented.

```
Example :  
SetSensitiveRecParameter ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.21 SetSensitiveDefectRecParameter()

TODO: Undocumented.

```
Example :  
SetSensitiveDefectRecParameter ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.22 InitializeSoundRec()

TODO: Undocumented.

```
Example :  
InitializeSoundRec ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.23 TerminateSoundRec()

TODO: Undocumented.

```
Example :  
TerminateSoundRec ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.24 StartSoundRecord()

TODO: Undocumented.

```
Example :  
StartSoundRecord ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.25 FreeBufferForSoundRec()

TODO: Undocumented.

```
Example :  
FreeBufferForSoundRec ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.26 StartSoundPlay()

TODO: Undocumented.

```
Example :  
StartSoundPlay ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.27 ShowTransparentMemory()

TODO: Undocumented.

```
Example :  
ShowTransparentMemory ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.28 DumpTransparentMemoryItem()

TODO: Undocumented.

```
Example :  
DumpTransparentMemoryItem ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.29 AddTransparentMemory()

TODO: Undocumented.

Example :  
AddTransparentMemory ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.30 AttachToTransparentMemory()

TODO: Undocumented.

Example :  
AttachToTransparentMemory ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.31 RemoveTransparentMemory()

TODO: Undocumented.

Example :  
RemoveTransparentMemory ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.32 GetTransparentMemorySize()

TODO: Undocumented.

Example :  
GetTransparentMemorySize ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.33 GetTransparentMemory()

TODO: Undocumented.

Example :  
GetTransparentMemory ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.34 GetTransparentMemoryPosition()

TODO: Undocumented.

Example :  
GetTransparentMemoryPosition ( )

Note: needs prior call to the FA.Create() function to activate.



### **0.16.35 StartFactoryModeController()**

TODO: Undocumented.

Example :  
StartFactoryModeController ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.36 IsFactoryMode()**

TODO: Undocumented.

Example :  
IsFactoryMode ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.37 SetFactoryMode()**

TODO: Undocumented.

Example :  
SetFactoryMode ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.38 ClearFactoryMode()**

TODO: Undocumented.

Example :  
ClearFactoryMode ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.39 DisplayFactoryMode()**

TODO: Undocumented.

Example :  
DisplayFactoryMode ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.40 UndisplayFactoryMode()**

TODO: Undocumented.

Example :  
UndisplayFactoryMode ()

Note: needs prior call to the FA.Create() function to activate.

#### **0.16.41 IsDUIDFixFlag()**

TODO: Undocumented.

Example :  
IsDUIDFixFlag ( )

Note: needs prior call to the FA.Create() function to activate.

#### **0.16.42 SetDUIDFixFlag()**

TODO: Undocumented.

Example :  
SetDUIDFixFlag ( )

Note: needs prior call to the FA.Create() function to activate.

#### **0.16.43 ClearDUIDFixFlag()**

TODO: Undocumented.

Example :  
ClearDUIDFixFlag ( )

Note: needs prior call to the FA.Create() function to activate.

#### **0.16.44 CreateAdjustmentTableMirror()**

TODO: Undocumented.

Example :  
CreateAdjustmentTableMirror ( )

Note: needs prior call to the FA.Create() function to activate.

#### **0.16.45 RefreshAdjustmentTableMirror()**

TODO: Undocumented.

Example :  
RefreshAdjustmentTableMirror ( )

Note: needs prior call to the FA.Create() function to activate.

#### **0.16.46 WRITEADJTABLETOFROM()**

TODO: Undocumented.

Example :  
WRITEADJTABLETOFROM ( )

Note: needs prior call to the FA.Create() function to activate.

### **0.16.47 LoadAdjustmentTable()**

TODO: Undocumented.

Example :  
LoadAdjustmentTable ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.48 SaveAdjustmentTable()**

TODO: Undocumented.

Example :  
SaveAdjustmentTable ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.49 SaveAdjustmentValue()**

TODO: Undocumented.

Example :  
SaveAdjustmentValue ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.50 LoadAdjustmentValue()**

TODO: Undocumented.

Example :  
LoadAdjustmentValue ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.51 ShowDefaultAdjTableVersion()**

TODO: Undocumented.

Example :  
ShowDefaultAdjTableVersion ()

Note: needs prior call to the FA.Create() function to activate.

### **0.16.52 EraseAdjustmentArea()**

TODO: Undocumented.

Example :  
EraseAdjustmentArea ()

Note: needs prior call to the FA.Create() function to activate.

### 0.16.53 DumpAdjMirror()

TODO: Undocumented.

```
Example :  
DumpAdjMirror ( )
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.54 GetAdjTableVersion()

TODO: Undocumented.

```
Example :  
GetAdjTableVersion ( )
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.55 GetAdjTableMapVersion()

TODO: Undocumented.

```
Example :  
GetAdjTableMapVersion ( )
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.56 GetAdjTableValueVersion()

TODO: Undocumented.

```
Example :  
GetAdjTableValueVersion ( )
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.57 PrintAdjTableMap()

TODO: Undocumented.

```
Example :  
PrintAdjTableMap ( )
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.58 AddAdjDataToFFrom()

TODO: Undocumented.

```
Example :  
AddAdjDataToFFrom ( )
```

Note: needs prior call to the FA.Create() function to activate.

### **0.16.59 DeviceUniqueIDChecksum()**

TODO: Undocumented.

Example :  
DeviceUniqueIDChecksum ( )

Note: needs prior call to the FA.Create() function to activate.

### **0.16.60 LoadParamDataFromAdjTableBin()**

TODO: Undocumented.

Example :  
LoadParamDataFromAdjTableBin ( )

Note: needs prior call to the FA.Create() function to activate.

### **0.16.61 LoadDataFromAdjTableBin()**

TODO: Undocumented.

Example :  
LoadDataFromAdjTableBin ( )

Note: needs prior call to the FA.Create() function to activate.

### **0.16.62 StartLogOut()**

TODO: Undocumented.

Example :  
StartLogOut ( )

Note: needs prior call to the FA.Create() function to activate.

### **0.16.63 StopLogOut()**

TODO: Undocumented.

Example :  
StopLogOut ( )

Note: needs prior call to the FA.Create() function to activate.

### **0.16.64 OutputLogToFile()**

TODO: Undocumented.

Example :  
OutputLogToFile ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.65 IsLogOutType()

TODO: Undocumented.

Example :  
IsLogOutType ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.66 FAPrintf()

TODO: Undocumented.

Example :  
FAPrintf ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.67 FADBGPrintf()

TODO: Undocumented.

Example :  
FADBGPrintf ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.68 CreateFADBGSingalID()

TODO: Undocumented.

Example :  
CreateFADBGSingalID ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.69 FADBGSingal()

TODO: Undocumented.

Example :  
FADBGSingal ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.70 PrintFirmVersion()

TODO: Undocumented.

Example :  
PrintFirmVersion ( )

Note: needs prior call to the FA.Create() function to activate.

### 0.16.71 PrintFaexeVersioin()

TODO: Undocumented.

```
Example :  
PrintFaexeVersioin ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.72 GetLogData()

TODO: Undocumented.

```
Example :  
GetLogData ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.73 GetLogDataOnlyAddMemory()

TODO: Undocumented.

```
Example :  
GetLogDataOnlyAddMemory ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.74 ActivateAdjLog()

TODO: Undocumented.

```
Example :  
ActivateAdjLog ()
```

Note: needs prior call to the FA.Create() function to activate.

### 0.16.75 InactivateAdjLog()

TODO: Undocumented.

```
Example :  
InactivateAdjLog ()
```

Note: needs prior call to the FA.Create() function to activate.

## 0.17 Examples

### 0.17.1 Print Skull

### 0.17.2 Print Skull

```
dim I=1
dim a=3
dim b=3
dim c=3
dim d,e,f,g,h,i,j,k,l,m

private sub createSkull()
d=LCDMsg_Create()
e=LCDMsg_Create()
f=LCDMsg_Create()
g=LCDMsg_Create()
h=LCDMsg_Create()
i=LCDMsg_Create()
j=LCDMsg_Create()
k=LCDMsg_Create()

LCDMsg_SetStr(d,"PWND! _ _ _ _ _")
LCDMsg_SetStr(e," _ _ _ _ _1 _ _ _Y _1")
LCDMsg_SetStr(f," _ _ _ _ _1 _ _ _ _ _1")
LCDMsg_SetStr(g," _ _ _ _ _1 _ _ _ _ _1")
LCDMsg_SetStr(h," _ _ _ _ _1 _ _ _ _ _1")
LCDMsg_SetStr(i," _ _ _ _ _1 _ _ _ _ _1")
LCDMsg_SetStr(j," _ _ _ _ _1 _ _ _ _ _1")
LCDMsg_SetStr(k," _ _ _ _ _1 _ _ _ _ _1")

LCDMsg_Move(d,10,30)
LCDMsg_Move(e,10,60)
LCDMsg_Move(f,10,90)
LCDMsg_Move(g,10,120)
LCDMsg_Move(h,10,150)
LCDMsg_Move(i,10,180)
LCDMsg_Move(j,10,210)
LCDMsg_Move(k,10,240)
end sub

private sub Initialize()
System.Create() ' Habilita llamadas del sistema
Capture.Create()
FA.Create()
SS.Create()
UI.Create() ' para que anda UIFS
UI.CreatePublic()
Driver.Create()

StartRedirectUART(1)
```



```

createSkull()
ShowAllTaskInfo()
for c=0 to 10

for a=0 to 10
LEDDrive(a,0)
next

BeepDrive(2)
Wait(500)
BeepDrive(3)

for a=0 to 10
LEDDrive(a,1)
next

'Colores:
'3=blanco
'0=negro
'1=gris
'5=verde
'^5=rojo
LCDMsg_ChangeColor(d,0)
LCDMsg_ChangeColor(e,0)
LCDMsg_ChangeColor(f,0)
LCDMsg_ChangeColor(g,0)
LCDMsg_ChangeColor(h,0)
LCDMsg_ChangeColor(i,0)
LCDMsg_ChangeColor(j,0)
LCDMsg_ChangeColor(k,0)
Wait(500)
LCDMsg_ChangeColor(d,3)
LCDMsg_ChangeColor(e,3)
LCDMsg_ChangeColor(f,3)
LCDMsg_ChangeColor(g,3)
LCDMsg_ChangeColor(h,3)
LCDMsg_ChangeColor(i,3)
LCDMsg_ChangeColor(j,3)
LCDMsg_ChangeColor(k,3)
next

Printf("A\n")
Printf("A\n")
Printf("A\n")
Printf("A\n")
end sub

private sub Terminate()

```

```
end sub
```

### 0.17.3 Record Sound

```
dim I=1
dim a=3
dim b=3
dim c=3

private sub Initialize()

System.Create() ' Habilita llamadas del sistema
Capture.Create()
FA.Create()
SS.Create()
UI.Create() ' para que anda UIFS
UI.CreatePublic()

StartRedirectUART(1)
StartFactoryModeController()
EnableDebugLogMode()

InitializeSoundRec()
FreeBufferForSoundRec()
StartSoundRecord(3)
TerminateSoundRec()
ShowTransparentMemory()
DumpTransparentMemoryItem("RECORDSOUNDATA")

'StartSoundPlay()

Printf("A\n")
Printf("A\n")
Printf("A\n")
Printf("A\n")
end sub

private sub Terminate()

a=strlen("Aaaaaaaa\n")
sprintf(b,"Aa%caaaaaaa\n",0)
a= Fopen_Fut("A/test.txt","w")
Fwrite_Fut("AAAA",1,4,a)
```

```

Fwrite_Fut(b,1,6,a)
Fclose_Fut(a)

for a=0 to 10
Poke8(0xC02200D8,0x46)
Wait(100)
Poke8(0xC02200D8,0x44)
Wait(100)
next
Printf("A\n")
Printf("BBA\n")
Printf("A\n")
Printf("A\n")

'OpLog.Stop()

end sub

```

#### 0.17.4 Phantom picture

```

private sub say(b)
    a=LCDMsg_Create()
    LCDMsg_SetStr(a,b)
    ShowCameraLog()
end sub

private sub Initialize()
    UI.CreatePublic()
end sub

dim I=1
dim a=3
dim r=3
dim destino=0

private sub Terminate()
    'StartRedirectUART(1)

    System.Create() ' Habilita llamadas del sistema
    destino=AllocateMemory(34798)
    r= Fopen_Fut("A/peron.jpg","rb")
    Fread_Fut(destino , 34798, 1, r)
    Fclose_Fut(r)
    a= Fopen_Fut("A/DCIM/100CANON/IMG_3600.JPG","wb")
    Fwrite_Fut(destino,34798,1,a)
    Fclose_Fut(a)

```

```
say("Peronist_exploit_deployed!")
```

```
end sub
```

## 0.18 Firmware Dumping

For an explanation of firmware dumping of powershot cameras, please refer to CHDK project ([chdk.wikia.com](http://chdk.wikia.com)) or CONFidence 2010 talk “de-blackboxing digital camera” from altsoph.