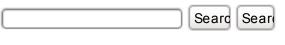
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## **Magic Lantern** firmware development



## Canon PTP commands

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 Thanks to an anonymous .net programmer, here are the
 PTP commands
 from the SDK:
          public const uint PtpNextPhase_NoData = 0;
          public const uint PtpNextPhase_ReadData = 1;
          public const uint PtpNextPhase WriteData = 2;
          public const int PtpOpe_CLOSE_SESSION =
 0x1003;
          public const int PtpOpe DELETE OBJECT =
 0x100b:
          public const int PtpOpe DS CANCELTRANSFER =
 0x9118;
          public const int PtpOpe DS CREAGE_OBJECT =
 0x9112;
          public const int PtpOpe DS DELETE OBJECT =
 0x9105;
          public const int PtpOpe DS FAPI MESSAGERX =
 0x91ff:
          public const int PtpOpe DS FAPI MESSAGETX =
 0x91fe;
          public const int PtpOpe_DS_FORMAT_STORE =
 0x9106;
          public const int PtpOpe DS GET DEVICEINFOEX =
 0x9108:
          public const int PtpOpe DS GET EVENT =
 0x9116:
          public const int PtpOpe_DS_GET_OBJECT =
 0x9104;
          public const int PtpOpe_DS_GET_OBJECTINFO =
 0x9103;
          public const int PtpOpe DS GET OBJECTINFOEX =
 0x9109:
          public const int PtpOpe DS GET OBJECTTIME =
 0x910d:
          public const int PtpOpe_DS_GET_PARTIALOBJECT
 = 0 \times 9107;
          public const int PtpOpe_DS_GET_REMOTEMODE =
```

1 of 5

```
0x9113;
        public const int PtpOpe_DS_GET_STORAGEIDS =
0x9101;
        public const int PtpOpe DS GET STORAGEINFO =
0x9102;
        public const int PtpOpe_DS_GET_THUMB_EX =
0x910a:
        public const int PtpOpe DS KEEPDEVICE ON =
0x911d;
        public const int PtpOpe_DS_PCHDDCAPACITY =
0x911a;
        public const int PtpOpe_DS_REMOTE_RELEASE =
0x910f;
        public const int PtpOpe_DS_RESET_UILOCK =
0x911c;
        public const int PtpOpe_DS_RESETTRANSFER =
0x9119;
        public const int PtpOpe_DS_SEND_OBJECTEX =
0x9111;
        public const int
PtpOpe DS SEND PARTIAL OBJECT = 0x910b;
        public const int
PtpOpe_DS_SET_DEVICEPROPVALUEEX = 0x9110;
        public const int PtpOpe DS SET EVENTMODE =
0x9115;
        public const int PtpOpe DS SET NULLPACKETMODE
= 0x911e;
        public const int
PtpOpe DS SET OBJECTATRIBUTES = 0x910c;
        public const int PtpOpe DS SET OBJECTTIME =
0x910e;
        public const int PtpOpe_DS_SET_REMOTEMODE =
0x9114;
        public const int PtpOpe DS SET UILOCK =
0x911b;
        public const int PtpOpe_DS_TRANFERCOMPLETE =
0x9117;
        public const int PtpOpe DS UPDATE FIRMWARE =
0x911f;
        public const int PtpOpe_GET_DEVICEINFO =
0×1001;
        public const int PtpOpe GET NUMOBJECTS =
0×1006;
        public const int PtpOpe_GET_OBJECT = 0x1009;
        public const int PtpOpe_GET_OBJECTHANDLES =
0×1007;
        public const int PtpOpe_GET_OBJECTINFO =
0x1008;
        public const int PtpOpe_GET PARTIALOBJECT =
0x101b:
        public const int PtpOpe GET STORAGEIDS =
0×1004;
        public const int PtpOpe_GET_STORAGEINFO =
0×1005;
        public const int PtpOpe_GET_THUMB = 0x100a;
        public const int PtpOpe OPEN SESSION =
```

```
0x1002;
         public const int PtpOpe SEND OBJECT = 0x100d;
         public const int PtpOpe SEND OBJECTINFO =
0x100c;
         public const int PtpOpe UNDEFINED = 0 \times 1000;
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A few more from the EDSDK.dll
DS TRANFERCOMPLETE DT = 0 \times 9120;
DS CANCELTRANSFER DT = 0 \times 9121;
DS INITIATEVIEWFINDER = 0 \times 9151;
DS_TERMINATEVIEWFINDER = 0x9152;
DS GETVIEWFINDERDATA = 0 \times 9153;
DS DRIVELENS = 0 \times 9155;
DS_DEPTHOFFIELDPREVIEW = 0x9156;
```

```
DS CLICKWB = 0 \times 9157;
DS Z00M = 0 \times 9158;
DS Z00M POSITION = 0 \times 9159;
DS SETLIVEAF FRAME = 0 \times 915a;
DS SETWFTPROFILE = 0x9122;
DS GETWFTPROFILE = 0 \times 9123;
DS_SETPROFILETOWFT = 0 \times 9124;
DS BULB START = 0 \times 9125;
DS_BULB_END = 0 \times 9126;
DS REQUESTDEVICEPROPVALUE = 0x9127;
DS REMOTERELEASEON = 0 \times 9128;
DS REMOTERELEASEOFF = 0 \times 9129;
DS DOAF = 0 \times 9154;
DS_AFCANCEL = 0 \times 9160;
DS FAPI MESSAGETX = 0 \times 91 \text{fe};
DS_FAPI_MESSAGERX = 0x91ff;
DS_REGISTBACKGROUNDIMAGE = 0x912a;
DS CHANGEPHOTOSTADIOMODE = 0x912b;
DS GETPARTIALOBJECTEX = 0 \times 912c;
DS RESETMIRRORLOCKUPSTATE = 0x9130;
DS POPUPBUILTINLFLASH = 0 \times 9131;
DS ENDGETPARTIALOBJECTEX = 0 \times 9132;
DS MOVIESELECTSWON = 0 \times 9133;
DS MOVIESELECTSWOFF = 0 \times 9134;
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