

```
#include "Main.h"
void Read_PD ( void )
{
    SetDigitalOutput ( 11 , 1 ) ; // close shutter, clear film, and increment counter
    SetDigitalOutput ( 12 , 1 ) ; // initialize conter value to '0'
    SetDigitalOutput ( 12 , 0 ) ; // alloww counter to count
    Wait ( 5 ) ; // 5mS wait for things settling down
    SetDigitalOutput ( 11 , 0 ) ; // open shutter and expose film
    Wait ( expose_time ) ; // exposer time = 3mS to 8mS
    PD0 = GetAnalogInput ( 1 ) ; // read intensity
    PD1 = expose_and_read ( ) ;
    PD2 = expose_and_read ( ) ;
    PD3 = expose_and_read ( ) ;
    PD4 = expose_and_read ( ) ;
    PD5 = expose_and_read ( ) ;
    PD6 = expose_and_read ( ) ;
    PD7 = expose_and_read ( ) ;
    PD_sum=PD0+PD1+PD2+PD3+PD4+PD5+PD6+PD7;
}
```