

## CMOS Color Camera

The “Raw” Image is 288 ROWS by 352 COLUMNS in the Bayer Pattern.

I compress that image for you into a 144 ROW by 176 COLUMN RGB Image

C Defines, Types and Functions:

1. 

```
#define IMAGE_ROWS 144
#define IMAGE_COLUMNS 176
```
2. 

```
typedef struct bgr {
    unsigned char blue;
    unsigned char green;
    unsigned char red;
} bgr;
```
3. 

```
void userProcessColorImageFunc_laser(volatile bgr *ptrImage)
```

You will edit this function to create your vision processing algorithms. The function is passed an array of type bgr “ptrImage”. ptrImage is the 144R X 176C compressed image.

To access individual pixels of the image you would write for example:

```
unsigned char myred;
int r,c;
r = 71; c = 34;
myred = ptrImage[r*IMAGE_COLUMNS+c].red;
```