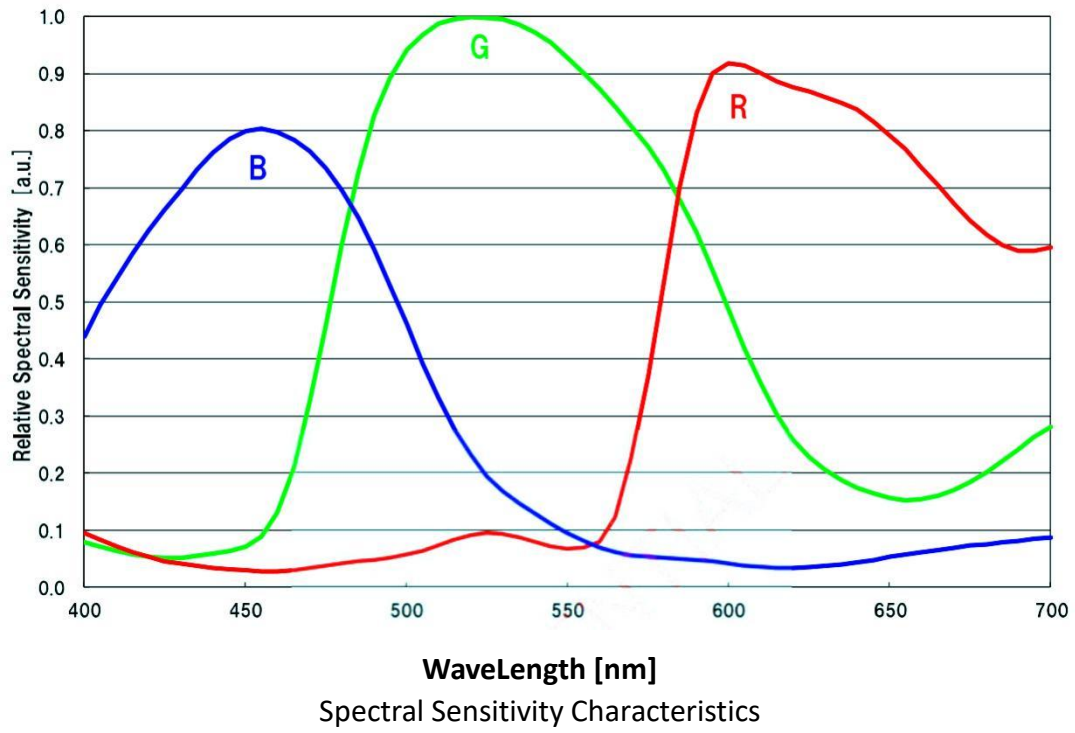
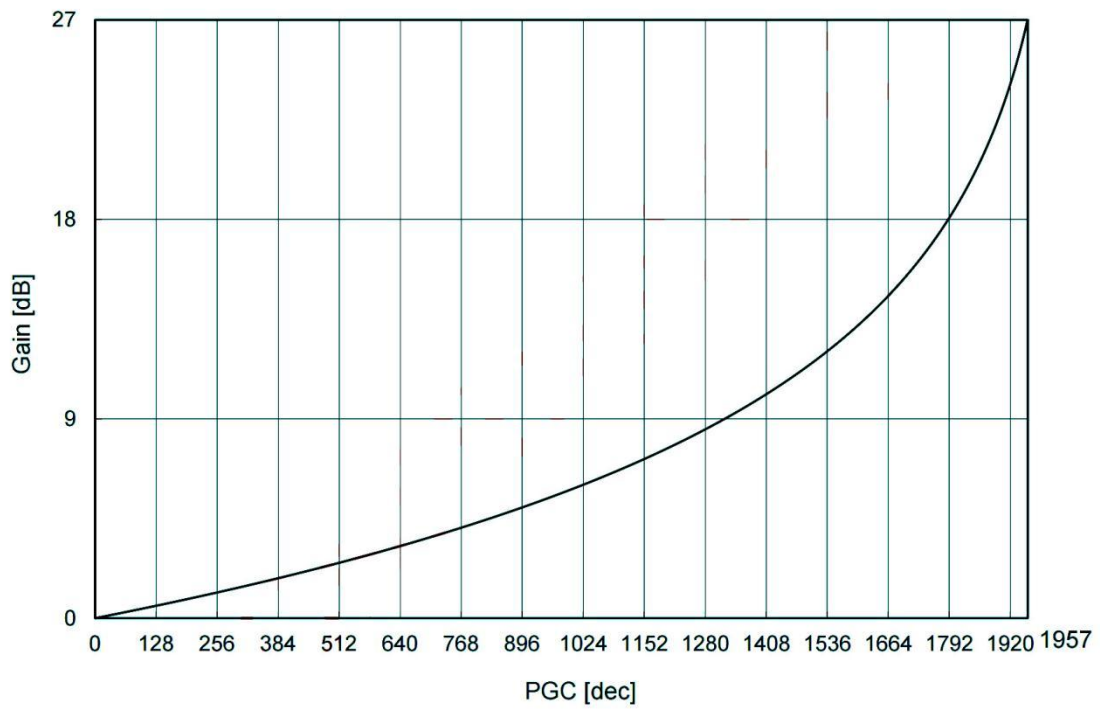


型号	HY-1200B		
名称	USB2.0 Color 12MP Driver-free UVC Digital Camera		
图像传感器	SONY 1/2.3" Color IMX377 CMOS Image Sensor		
像素尺寸	1.55μm (H) ×1.55μm(V)		
帧率	@15FPS 帧/@25FPS 帧		
光谱响应	400nm~700nm		
扫描方式	逐行扫描, 纯硬件 1600 万像素图像传感器, 无压缩, 无插值		
分辨率	4032x3024;3840x2160;2592x1944;2560x1440;1920x1080;1280x720;640x480		
输出图像格式	MJPEG (Compression format)		YUV2 (Compression format)
视频分辨率/帧率	4032x3024 @ 15fps; 3648x2736 @ 15fps; 2592x1944 @ 25fps; 1920x1080 @ 25fps; 1280x720 @ 25fps;	3888x2952 @ 15fps; 3840x2160 @ 25fps; 2560x1440 @ 25fps; 1280x960 @ 25fps; 640x480 @ 25fps;	4032x3024 @ 1fps; 3840x2160 @ 1fps; 1920x1080 @ 5fps; 1280x720 @ 10fps; 640x480 @ 15fps 640x360 @ 25fps
动态范围	74 dB (Linear)-85 dB (HDR)		
灵敏度	2400 mV/Lux-sec		
白平衡	手动/自动		
图像传输速度	USB2.0, 480Mb/s		
信噪比	39dB		
工作温度	-30°C~70°C		
存储温度	-30°C~60°C		
可调节参数	Brightness, Contrast, Color saturation,Hue, Sharpness, Gamma, Gain, White Balance, Backlight Contrast, Exposure		
支持免驱协议	USB Video Class (UVC)		
一键白平衡	支持		
自动曝光控制	手动/自动		
支持系统	Win XP/Win7/Win10/win11 Linux / Android (Devices that comply with the UVC protocol) MAC OS X10.4.8 or later (Devices that comply with the UVC protocol)		
支持 OTG	USB2.0 OTG		



Relation Formula

$$\text{Gain [dB]} = -20 \log\left\{\frac{2048 - \text{PGC}[10:0]}{2048}\right\}$$



Relationship between Register Setting Value and Set Gain Value