

when it  
counts

AVCCAM

## AG-AF100 Production Camcorder

- 4/3" imager, better DOF
- Micro four thirds Exchangeable Lens mount
- Various Mount Adaptors available
  - 35mm Camera Lens, Prime Lens
- SD Card Slot x2
- SD/SDHC/SDXC card
- AVCHD PH Mode



6 hours recording on a 64GB SDXC card @PH mode

48 hours continuous recording on two 64GB SDXC cards @HE mode

Schedule: December 2010



Panasonic ideas for life

when it  
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# AVCCAM



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AVCCAM

## AG-AF100 Production Camcorder

- VFR (720P mode)
- 1080/60i, 30p, 24p  
720/60p,30p,24P  
1080/50i, 25p  
720/50p,25p
- XLR Audio Input x2
- HDSDI Output
- HDMI Output
- Timecode recording

6 hours recording on a 64GB SDXC card @PH mode

48 hours continuous recording on two 64GB SDXC cards @HE mode

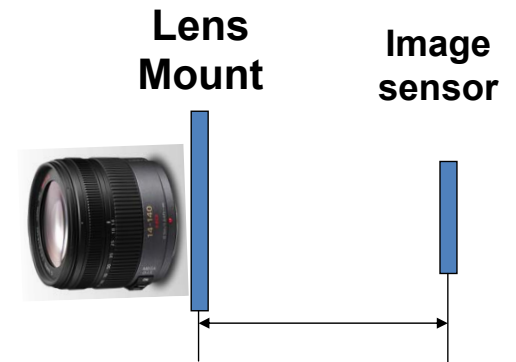
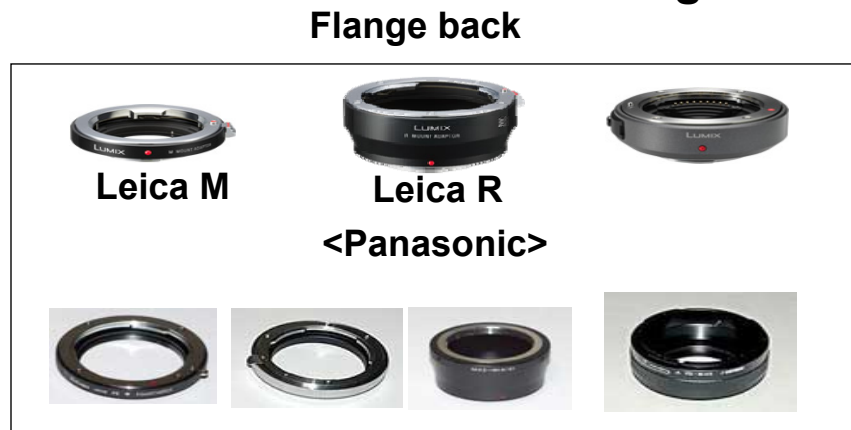


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Mount	Flange back ( mm)
C Mount	17.5
Miro Four Thirds	19.3
Pentax	26.5
Leica M	27.8
Leica Screw	28.8
Olympus Pen F	28.9
Nikon S	31.9
Four Thirds	38.7
Canon R/FL/FD	42.0
Minolta SR/X	43.5
Canon EOS	44.0
SONYα (Minolta α )	44.5
Pentax K	45.5
M42	45.5
Olympus OM	46.0
Nikon F	46.5
Leica R	47.15
P L	52.0

## Using Other Interchangeable Lens

Most lenses can be installed by using various mount adaptors excluding C mount, because micro four thirds flange back is short.

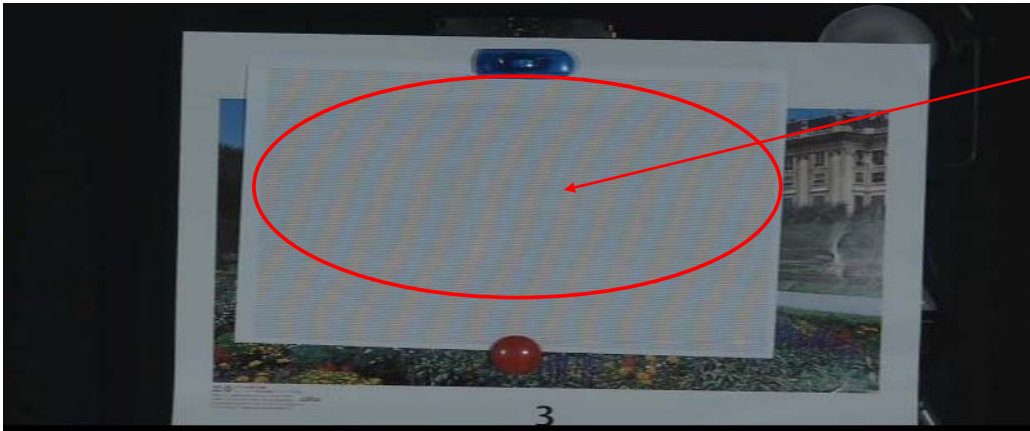


## Aliasing, Video Camera vs. DSLR

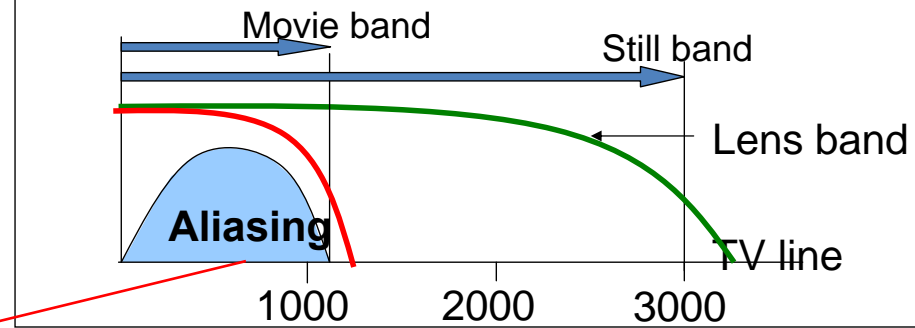
When the DSC image sensor is used in video Mode, because of the frequency characteristics difference of the lens and Signal Processing, the aliasing occurs.

Freq. Response of Lens : 3000 TV lines

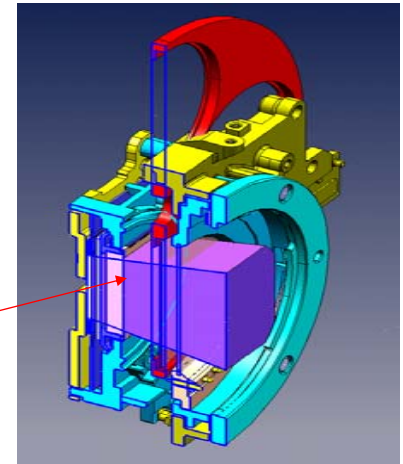
Freq. Response of the Video : 1000 TV lines



### Aliasing generation principle



Optical LPF



# ND Filter

## Environment with too much light

	HMC150	Canon7D / GH1	HMC2 (idea)
IRIS	F2 ~ F11	F3.5 ~ F22	F4.0 ~ F22
GAIN	0dB ~ 12dB	ISO100 ~ 6400	-6dB ~ 12dB
ND_FILTER	1/4, 1/16, 1/64	No	1/4, 1/16, 1/64
Manageable Area by 1/60 shutter And variable Gain & Iris	~ 250 K_lux	~ 64 K_lux Over this brightness, the shutter speed Will be changed.	~ 4000 K_lux

## Shooting in a normal environment

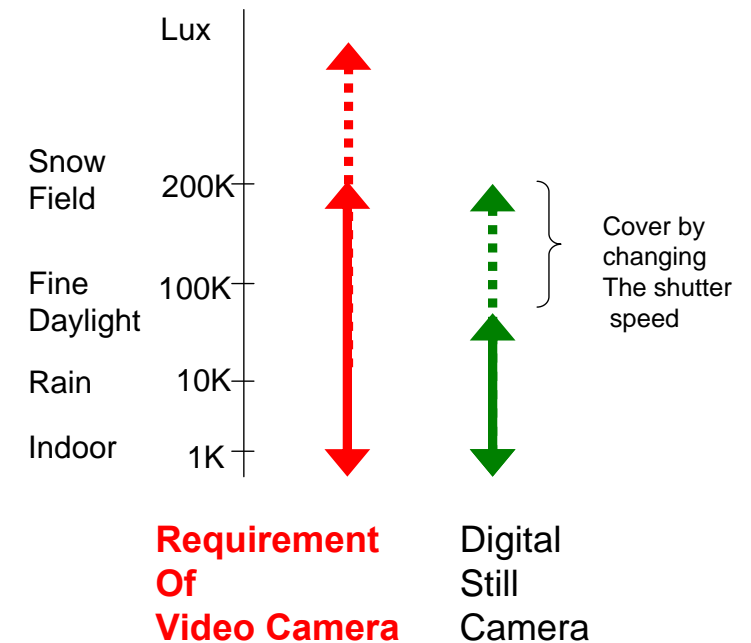
### 7D/GH1

IRIS	F22	F11	F5.6	F4.0
SHUTTER	1/60	1/250	1/1000	1/2000

### AF100

IRIS	F22	F11	F5.6	F4.0
SHUTTER	1/60	1/60	1/60	1/60
ND	OFF	1/4	1/16	1/64

## Manageable Light Intensity



By adding the ND filter selection, the depth of field can be controlled by iris with a fixed 1/60 shutter speed.